



User Manual

Wireless N150 Cloud Access Point

Table of Contents

| | | | |
|---|-----------|----------------------------|----|
| Package Contents..... | 4 | Wireless Client Mode..... | 37 |
| System Requirements..... | 5 | Repeater Mode..... | 38 |
| Introduction..... | 6 | Static IP..... | 39 |
| Features..... | 8 | PPPoE..... | 40 |
| Hardware Overview..... | 9 | PPTP..... | 41 |
| Connections..... | 9 | LAN Settings..... | 42 |
| LEDs..... | 10 | Static IP..... | 43 |
| WPS LED/Button..... | 11 | Mydlink Settings..... | 45 |
| Installation..... | 12 | Advanced..... | 46 |
| Operation Modes..... | 12 | Access Control..... | 46 |
| Access Point Mode..... | 13 | Advanced Wireless..... | 47 |
| Wireless Client Mode..... | 14 | Wi-Fi Protected Setup..... | 48 |
| Repeater Mode..... | 15 | User Limits..... | 49 |
| Router Mode..... | 16 | Advanced Network..... | 50 |
| Wi-Fi Hotspot Mode..... | 17 | Maintenance..... | 51 |
| Wireless Installation Considerations..... | 18 | Admin..... | 51 |
| Quick Setup Wizard..... | 19 | System..... | 52 |
| Configuration..... | 22 | Language Pack..... | 53 |
| Web-based Configuration Utility..... | 22 | Firmware..... | 53 |
| Wireless Setup Wizard..... | 23 | Time..... | 54 |
| Access Point Mode..... | 24 | System Check..... | 55 |
| Repeater Mode..... | 28 | Schedules..... | 56 |
| Wireless Client Mode..... | 31 | Status..... | 57 |
| Manual Configuration..... | 34 | Device Info..... | 57 |
| Wireless Setup..... | 34 | Logs..... | 58 |
| Access Point Mode..... | 35 | Statistics..... | 59 |
| | | Wireless..... | 60 |

| | | | |
|---|-----------|---|------------|
| IPv6 | 61 | Statically Assign an IP address | 92 |
| Help | 62 | Technical Specifications | 93 |
| Wireless Security | 63 | Contacting Technical Support | 94 |
| What is WEP? | 64 | Warranty..... | 95 |
| Configure WEP | 65 | Registration | 103 |
| What is WPA? | 66 | | |
| Configure WPA/WPA2 Personal | 67 | | |
| Configure WPA/WPA2 Enterprise | 68 | | |
| Connect to a Wireless Network..... | 69 | | |
| Using Windows® XP | 69 | | |
| Configure WPA-PSK..... | 70 | | |
| Using Windows Vista® | 72 | | |
| Configure WPA-PSK..... | 74 | | |
| Using Windows® 7 | 75 | | |
| Configure WPS | 78 | | |
| Troubleshooting | 82 | | |
| Wireless Basics | 86 | | |
| What is Wireless?..... | 87 | | |
| Tips..... | 89 | | |
| Wireless Modes..... | 90 | | |
| Networking Basics | 91 | | |
| Check your IP address..... | 91 | | |

Package Contents



DAP-1260L Wireless N150 Cloud Access Point



Ethernet Cable



Two Detachable Antennas



Power Adapter



Quick Installation Guide

Note: Using a power supply with a different voltage rating than the one included with the DAP-1260L will cause damage and void the warranty for this product.

System Requirements

| | |
|---|--|
| Network Requirements | <ul style="list-style-type: none">• An Ethernet-based Network• IEEE 802.11n/g wireless clients (AP/Repeater Mode)• IEEE 802.11n/g wireless network (Client/Repeater Mode)• 10/100 Ethernet |
| Web-based Configuration Utility Requirements | <p>Computer with the following:</p> <ul style="list-style-type: none">• Windows®, Macintosh, or Linux-based operating system• An installed Ethernet adapter <p>Browser Requirements:</p> <ul style="list-style-type: none">• Internet Explorer® 7 and higher• Mozilla Firefox 12.0 and higher• Google™ Chrome 20.0 and higher• Apple Safari 4 and higher <p>Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.</p> |

Introduction

D-Link, an industry leader in networking, introduces the new D-Link DAP-1260L Wireless N150 Cloud Access Point. With the ability to transfer files with a maximum wireless signal rate of up to 150 Mbps*, the DAP-1260L gives you high-speed wireless network access for your home or office.

The DAP-1260L is Wi-Fi IEEE 802.11n compliant, meaning that it can connect and interoperate with other 802.11n compatible wireless client devices. The DAP-1260L is also backwards compatible with 802.11b/g. It can be flexibly configured to operate in 5 different modes **Access Point, Wireless Client, Repeater, Router, or Wi-Fi HotSpot Mode**. With its Setup Wizard, the DAP-1260L ensures that you will be up and running on a wireless network in just a matter of minutes.

The DAP-1260L features Wi-Fi Protected Access (WPA-PSK/WPA2-PSK) to provide an enhanced level of security for wireless data communications. The DAP-1260L also includes additional security features to keep your wireless connection safe from unauthorized access.

The DAP-1260L supports WPS on the AP, Repeater and wireless client operation modes, with each capable of being conveniently set up by using the PIN method or Push Button.

• 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.

TOTAL PERFORMANCE

Provides extended wireless technology to provide the best wireless performance.

TOTAL SECURITY

The most complete set of security features including WPA/WPA2 encryption to protect your network against outside intruders.

ULTIMATE PERFORMANCE

The D-Link Wireless N150 Cloud Access Point (DAP-1260L) is an 802.11n compliant device that delivers real world performance of up to 13X faster than an 802.11g wireless connection (also faster than a 100Mbps wired Ethernet connection). Create a secure wireless network to share photos, files, music, video, printers, and network storage throughout your home. Connect the DAP-1260L to a router and extend your high-speed wireless Internet signal within your home.

EXTENDED WHOLE HOME COVERAGE

This high performance Access Point provides extended coverage of wireless signal.

* Maximum wireless signal rate derived from IEEE Standard 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.

Features

- **Faster Wireless Networking** - The DAP-1260L provides up to 150 Mbps* wireless connection with other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio.
- **Compatible with IEEE802.11g Devices** - The DAP-1260L is still fully compatible with the 802.11g standards, so it can connect with existing 802.11g PCI, USB, and FireWire adapters.
- **Advanced Firewall Features** - The Web-based user interface displays advanced network management features including Content Filtering, which allows easily applied content filtering based on MAC Address.
- **WPS PBC**- (Wi-Fi Protected Setup Push Button Configuration) Push Button Configuration is a button that can be pressed to add the device to an existing network or to create a new network. A virtual button can be used on the utility while a physical button is placed on the side of the device.
This easy setup method allows you to form a secured wireless link between the DAP-1260L and another WPS enabled device. A PC is no longer needed to log into the Web-based interface.
- **WPS PIN** - (Wi-Fi Protected Setup Personal Identification Number) A PIN is a unique number that can be used to add the access point to an existing network or to create a new network. The default PIN may be printed on the bottom of the access point. For extra security, a new PIN can be generated. You can restore the default PIN at any time. Only the Administrator (“admin” account) can change or reset the PIN.
- **User-friendly Setup Wizard** - Through its easy-to-use Web-based user interface, the DAP-1260L 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 access point to your specific settings within minutes.

Hardware Overview

Connections



| | | |
|---|-----------------------|--|
| 1 | LAN Port | Connect 10/100 Ethernet devices such as computers, switches, and hubs. |
| 2 | Power Receptor | Receptor for the supplied power adapter. |
| 3 | Reset Button | Hold the reset button for at least 5 seconds to reset the device back to the factory default settings. All the LEDs will turn on for 2 second and then begin the reboot process. |

Hardware Overview

LEDs



| | | |
|---|---------------------|--|
| 1 | Power LED | A solid green light indicates a proper connection to the power supply. |
| 2 | Wireless LED | A solid green light indicates the wireless function is working. The light will be off during device reboot or if the wireless radio is disabled. |
| 3 | Security LED | A solid green light indicates that wireless security (WEP, WPA, WPA2) is enabled. |
| 4 | LAN LED | A solid green light indicates the LAN port connection is OK. |

Hardware Overview

WPS LED/Button



1 WPS LED/Button

A solid light indicates a successful WPS connection. A blinking light indicates the device is trying to establish a connection.

Installation

Please configure the DAP-1260L with a computer connected directly to the AP. The next few pages will explain the different operational modes you can use.

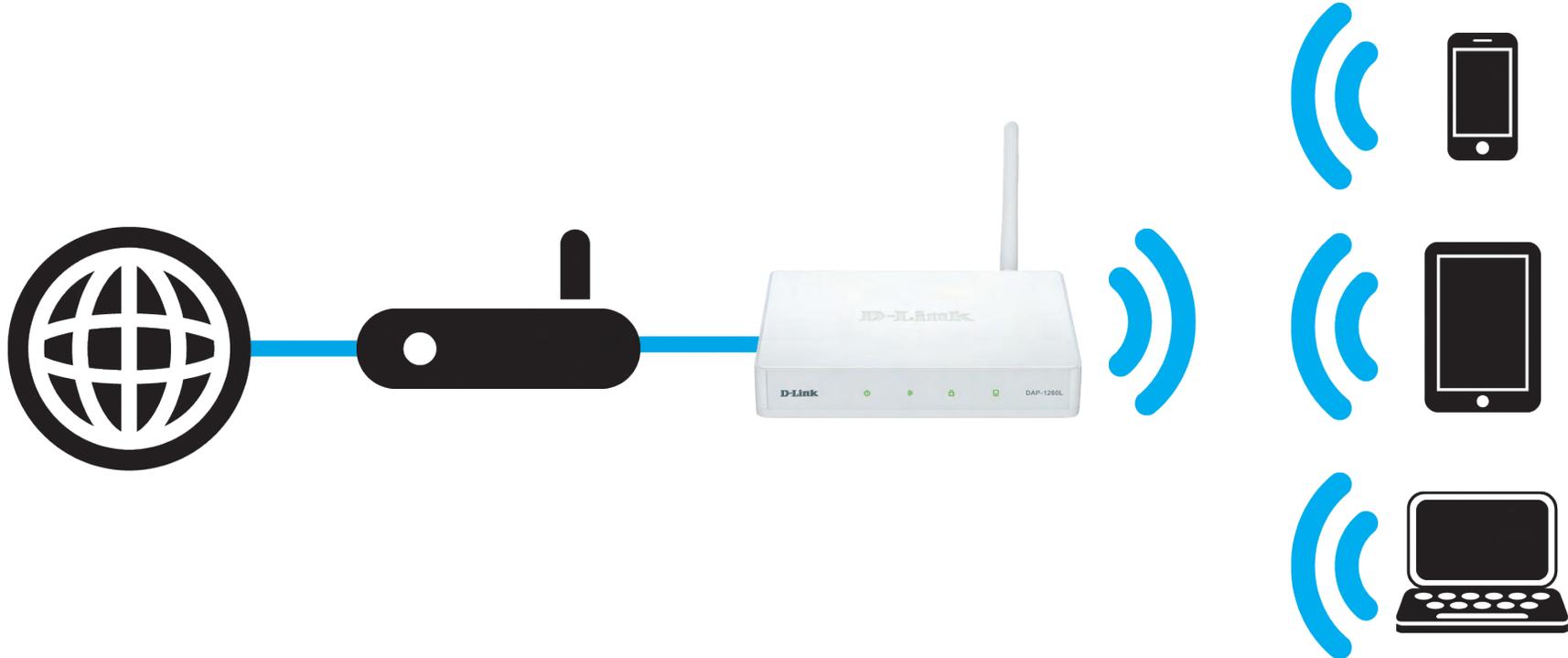
Operation Modes

Depending on how you want to use your DAP-1260L will determine which mode you use. This section will help you figure out which setting works with your setup.

- Access Point Mode (Default Mode) - page 13
- Wireless Client Mode - page 14
- Repeater Mode - page 15
- Router Mode - page 16
- Wi-Fi Hotspot Mode - page 17

Access Point Mode

In the Access Point mode, the DAP-1260L acts as a central connection point for any computer (client) that has a 802.11n or backward-compatible 802.11g wireless network interface and is within range of the AP. Clients must use the same SSID (wireless network name) and channel as the AP in order to connect. If wireless security is enabled on the AP, the client will need to enter a password to connect to the AP. In Access Point mode, multiple clients can connect to the AP at the same time.



Wireless Client Mode

In the Wireless Client mode, the DAP-1260L acts as a wireless network adapter for your Ethernet-enabled device (such as a game console or a TV set-top box). Connect your Ethernet-enabled device to the AP using an Ethernet cable. The AP Client mode can support multiple wired clients.

If you are going to connect several Ethernet-enabled devices to your DAP-1260L, connect the LAN port of the DAP-1260L to an Ethernet switch, then connect your devices to this switch.

Example: Connect a gaming console using an ethernet cable to the DAP-1260L. The unit is set to Wireless Client mode which will wirelessly connect to a wireless router on your network.



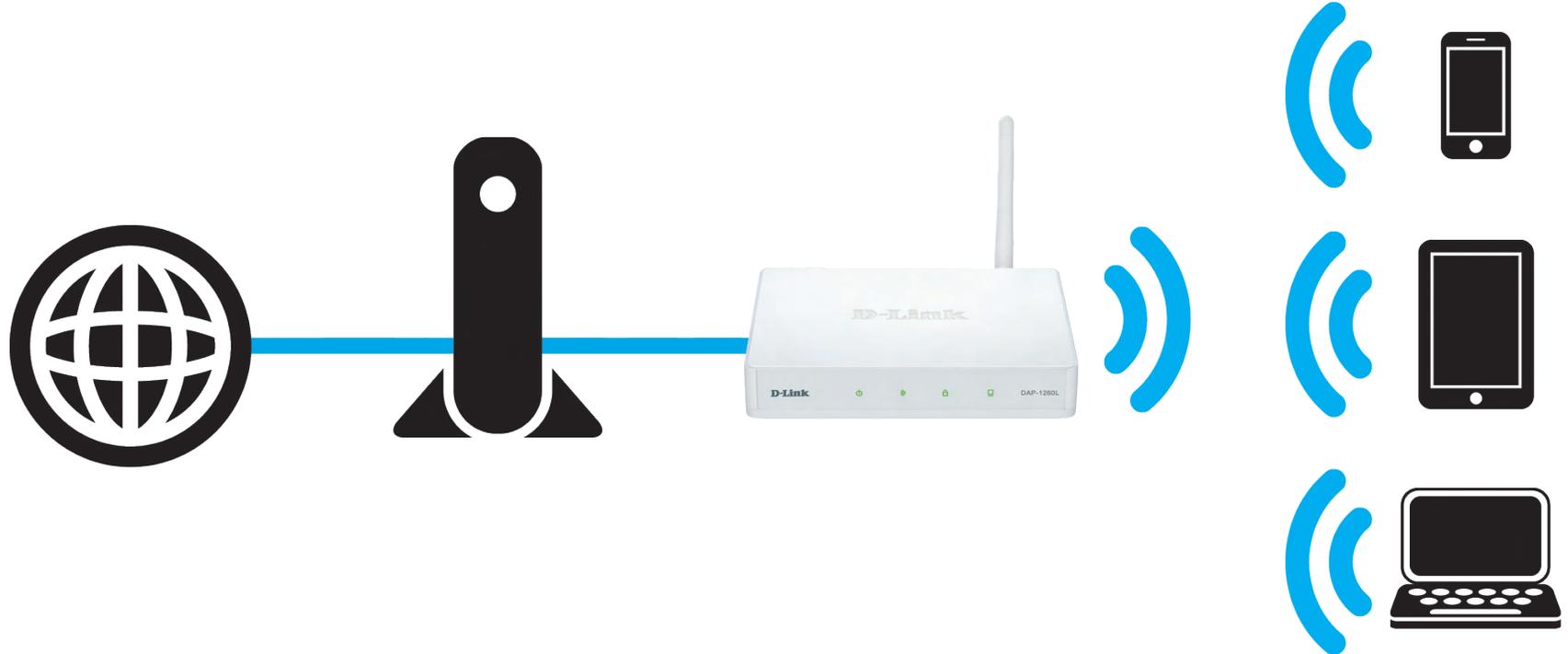
Repeater Mode

In Repeater Mode, the DAP-1260L increases the range of your wireless network by extending the wireless coverage of another AP or wireless router. The APs and wireless router (if used) must be within range of each other. Make sure that all clients, APs, and the wireless router all use the same SSID (wireless network name), channel, and security settings.



Router Mode

In Router mode, the DAP-1260L connects to a cable or DSL modem to act as a wireless router for clients on your WLAN. In this mode, the DAP-1260L provides NAT (Network Address Translation) and a DHCP server to generate IP addresses. NAT and the DHCP server allow many computers to share the same wireless Internet connection.



Wi-Fi Hotspot Mode

In the Wi-Fi Hotspot Mode, the DAP-1260L wirelessly connects to a Wi-Fi Hotspot. The DAP-1260L acts as a hotspot for your wireless devices by allowing you to share a wireless connection with them as a separate personal wireless network. Your devices can access the Internet as a single device.



Wireless Installation Considerations

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

1. Keep the number of walls and ceilings between the D-Link access point and other network devices to a minimum. Each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless access points, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
5. If you are using 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 Hz 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.

Quick Setup Wizard

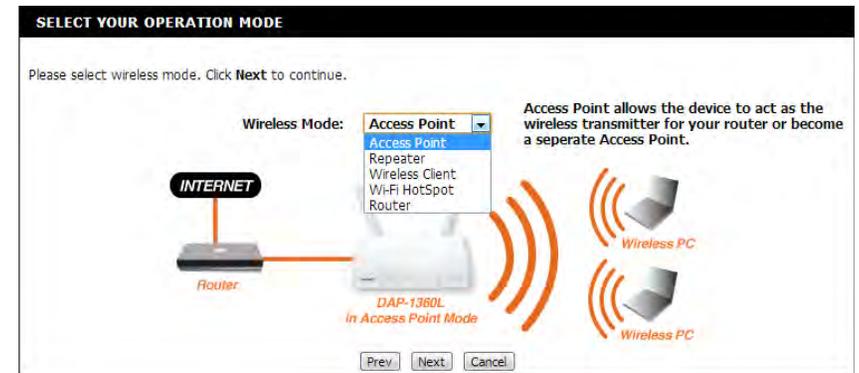
If this is your first time installing the access point, open your web browser such as Internet Explorer and enter **http://dlinkap** or **http://dlinkap.local** in the address field.

Note: If you have multiple DAP-1260L devices on the network, you can access web-based configuration via **http://dlinkapwxyz** or **http://dlinkapwxyz.local** (**wxyz** represents the last four digits in the DAP-1260L's MAC address) in the address field.

Note: If you have already configured your settings and you would like to access the configuration utility, please refer to page 23.

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

Select the Mode you would like to use from Access Point (AP), Wireless Client, Repeater, Router, and Wi-Fi Hotspot. Click **Next** to continue. The next steps will ask you to enter the settings for your Wi-Fi network such as SSID and security password.



If you have selected AP mode, after you have confirmed your Wi-Fi network settings, the wizard will check for Internet connectivity and then display the mydlink registration screen. To use the mydlink service (mydlink.com or the mydlink Lite app), you must have an account. Select whether you do have a mydlink account or if you need to create one. Click **Next** to continue.

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

Note: mydlink registration is only available in AP mode.

If you clicked **Yes** in the previous step, enter your mydlink account name (email address) and password. Click **Sign up** to register your router. You will then be taken to the mydlink website.

If you clicked **No** in the previous step, fill out the requested information and click **Sign up** to create your mydlink account. You will then be taken to the mydlink website.

MYDLINK REGISTRATION

To use the features of mydlink.com and the mydlink Lite app, you will need an account with mydlink.com. If you already have an account, select **Yes, I have a mydlink account** and click **Next** to register the router with mydlink.com. If you do not have an account, select **No, I want to register and login with a new mydlink account** and click **Next** to create an account. If you do not wish to sign up for the mydlink service, please click **Cancel**.

Do you have mydlink account?

Yes, I have a mydlink account.

No, I want to register and login with a new mydlink account.

MYDLINK REGISTRATION

E-mail Address (Account Name) :

Password :

MYDLINK REGISTRATION

Please fulfill the options to complete the registration.

E-mail Address (Account Name) :

Password :

Confirm Password :

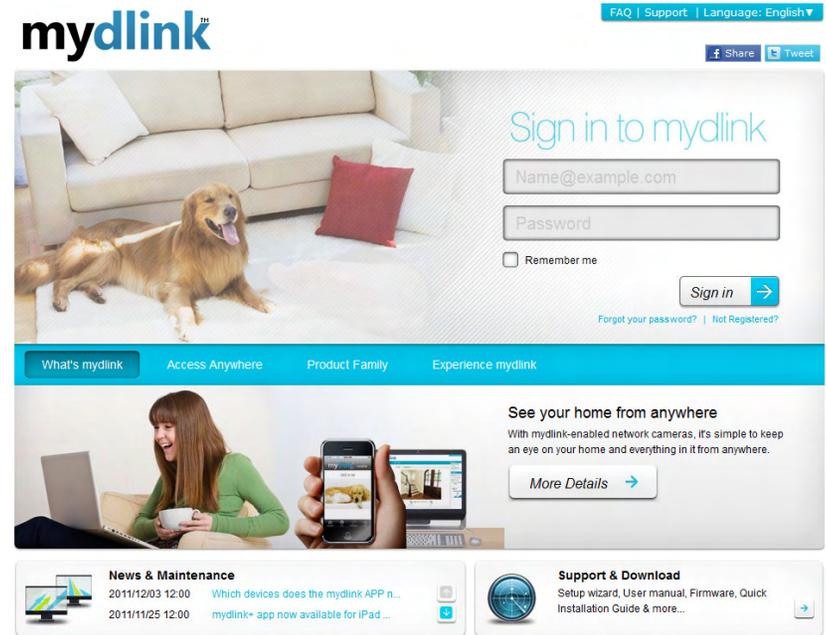
First Name :

Last name :

[I Accept the mydlink terms and conditions.](#)

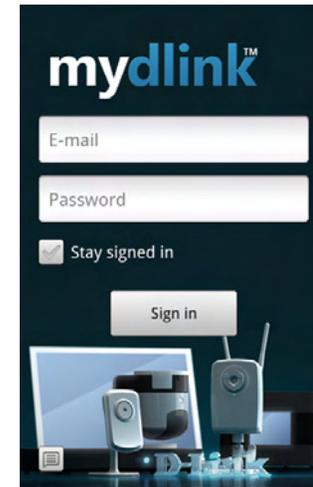
Section 2 - Installation

After you have signed up for your mydlink account, you can use the mydlink portal at <http://mydlink.com> whether you have a Mac or a PC. You can also use the mydlink App for your smartphone or tablet device.



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, Google Play, or <http://mydlink.com/Lite>.



Configuration

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

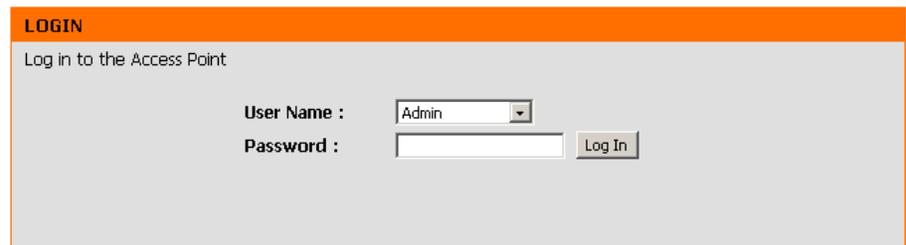
Web-based Configuration Utility

If you wish to change the default settings or optimize the performance of the DAP-1260L, you may use the web-based configuration utility.

To access the configuration utility, open a web browser such as Internet Explorer and enter **http://dlinkap**, **http://dlinkap.local**, **http://dlinkapwxyz**, or **http://dlinkapwxyz.local** (**wxyz** represents the last four digits in the DAP-1260L's MAC address) in the address field.

Select **Admin** and then enter your password. Leave the password blank by default.

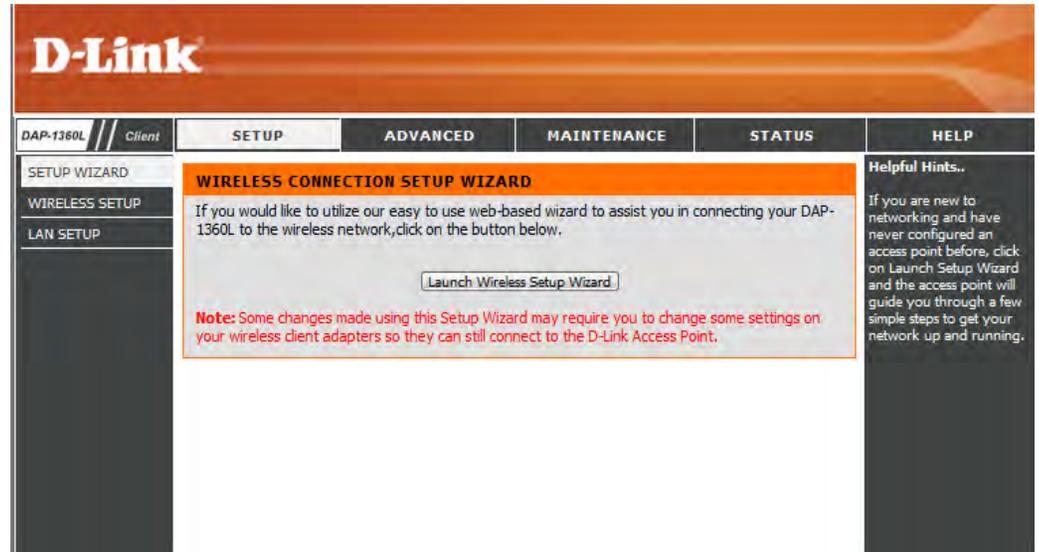
If you get a Page Cannot be Displayed error, please refer to the **Troubleshooting** section for assistance.



Wireless Setup Wizard

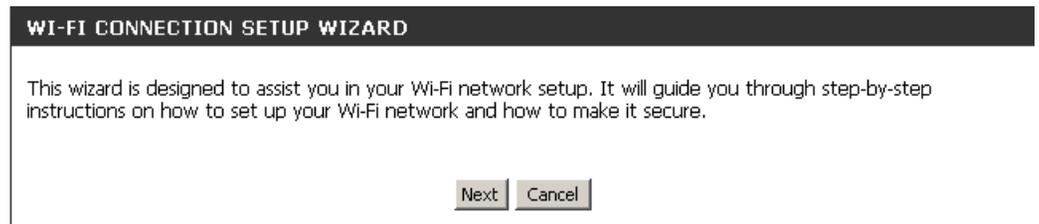
Click **Launch Wireless Setup Wizard** to configure your access point.

If you want to enter your settings without running the wizard, skip to page 41.



The screenshot shows the D-Link web interface for a DAP-1360L Client. The navigation menu includes SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists SETUP WIZARD, WIRELESS SETUP, and LAN SETUP. The main content area displays the 'WIRELESS CONNECTION SETUP WIZARD' with the following text: 'If you would like to utilize our easy to use web-based wizard to assist you in connecting your DAP-1360L to the wireless network, click on the button below.' Below this text is a button labeled 'Launch Wireless Setup Wizard'. A red note states: 'Note: Some changes made using this Setup Wizard may require you to change some settings on your wireless client adapters so they can still connect to the D-Link Access Point.' On the right side, there is a 'Helpful Hints..' section with text: 'If you are new to networking and have never configured an access point before, click on Launch Setup Wizard and the access point will guide you through a few simple steps to get your network up and running.'

Click **Next** to continue.

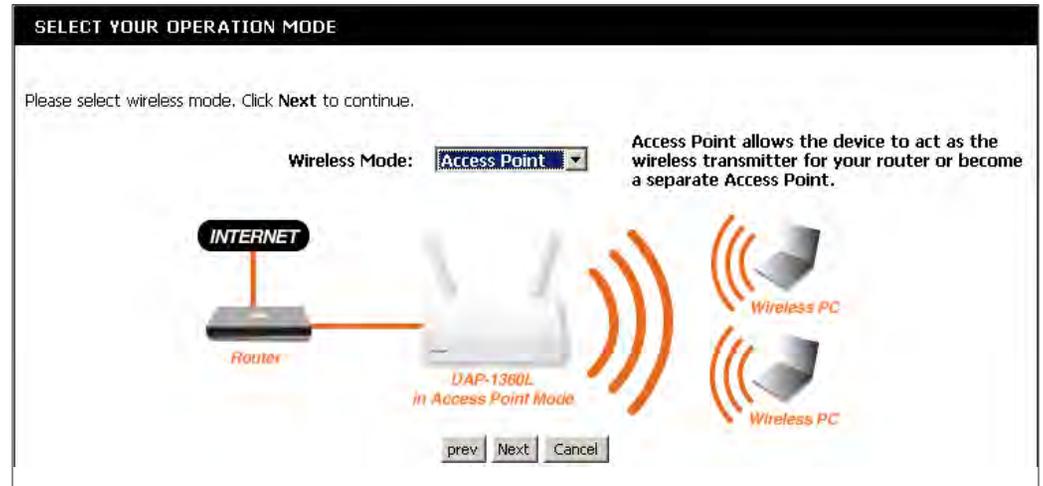


The screenshot shows the 'WI-FI CONNECTION SETUP WIZARD' screen. The text reads: 'This wizard is designed to assist you in your Wi-Fi network setup. It will guide you through step-by-step instructions on how to set up your Wi-Fi network and how to make it secure.' At the bottom right, there are two buttons: 'Next' and 'Cancel'.

Access Point Mode

This Wizard is designed to assist you in configuring your DAP-1260L as an access point.

Select **Access Point** from the drop-down menu. Then, click **Next** to continue.



Click **Next** to continue.



Section 3 - Configuration

Enter a name for your wireless network (SSID).

Enter your network key. This key must be entered on your wireless clients.

Click **Next** to continue.

WELCOME TO THE D-LINK WI-FI SETUP WIZARD

Give your Wi-Fi network a name.

Wi-Fi Network Name (SSID):
 (using up to 32 characters)

Give your Wi-Fi network a password.

Wi-Fi Password:
 (Between 8 and 63 characters)

Prev Next Cancel

Enter your password and click **Next**.

SET YOUR PASSWORD

By default, your new D-Link AP does not have a password configured for administrator access to the Web-based configuration pages. To secure your new networking device, please set and verify a password below.

Password

Verify Password

Prev Next Cancel

Select your time zone from the drop-down menu and click **Next**.

SELECT YOUR TIME ZONE

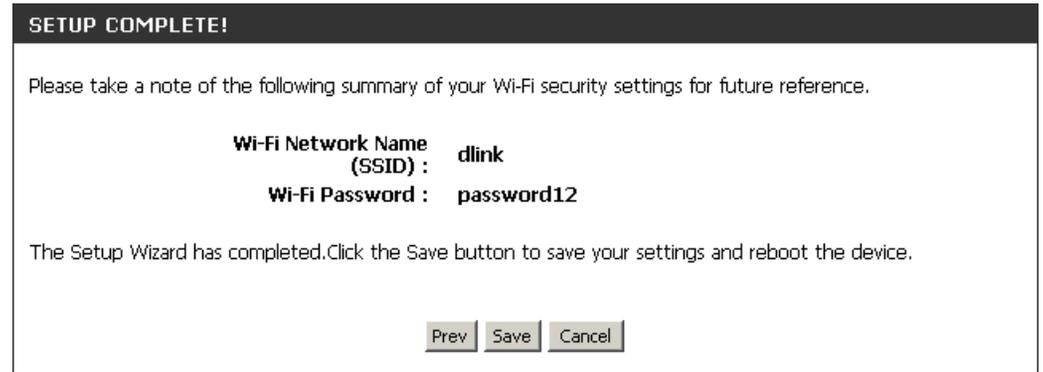
Select the appropriate time zone for your location. This information is required to configure the time-based options for the router.

(GMT-08:00) Pacific Time (US & Canada); Tijuana

Prev Next Cancel

The following screen will show you your network name and password to enter on your wireless clients.

Click **Save** to finish the Setup Wizard.



SETUP COMPLETE!

Please take a note of the following summary of your Wi-Fi security settings for future reference.

Wi-Fi Network Name (SSID) : dlink
Wi-Fi Password : password12

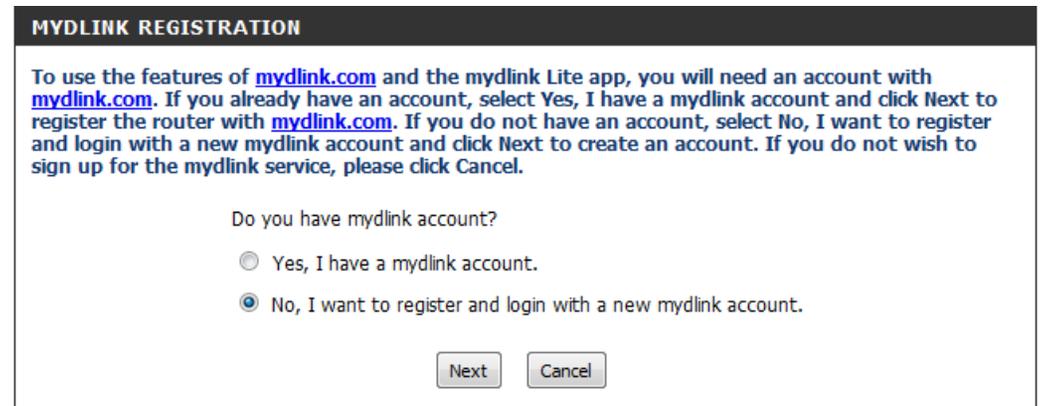
The Setup Wizard has completed. Click the Save button to save your settings and reboot the device.

Prev Save Cancel

After the wizard has detected Internet connectivity, the mydlink registration screen will appear. To use the mydlink service (mydlink.com or the mydlink Lite app), you must have an account. Select whether you have a mydlink account or if you need to create one. Click **Next** to continue.

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

Note: mydlink registration is only available in AP mode.



MYDLINK REGISTRATION

To use the features of mydlink.com and the mydlink Lite app, you will need an account with mydlink.com. If you already have an account, select Yes, I have a mydlink account and click Next to register the router with mydlink.com. If you do not have an account, select No, I want to register and login with a new mydlink account and click Next to create an account. If you do not wish to sign up for the mydlink service, please click Cancel.

Do you have mydlink account?

Yes, I have a mydlink account.
 No, I want to register and login with a new mydlink account.

Next Cancel

Section 3 - Configuration

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

If you clicked **No**, fill out the requested information and click **Sign up** to create your mydlink account. You will then be taken to the mydlink website.

MYDLINK REGISTRATION

E-mail Address (Account Name) :

Password :

MYDLINK REGISTRATION

Please fulfill the options to complete the registration.

E-mail Address (Account Name) :

Password :

Confirm Password :

First Name :

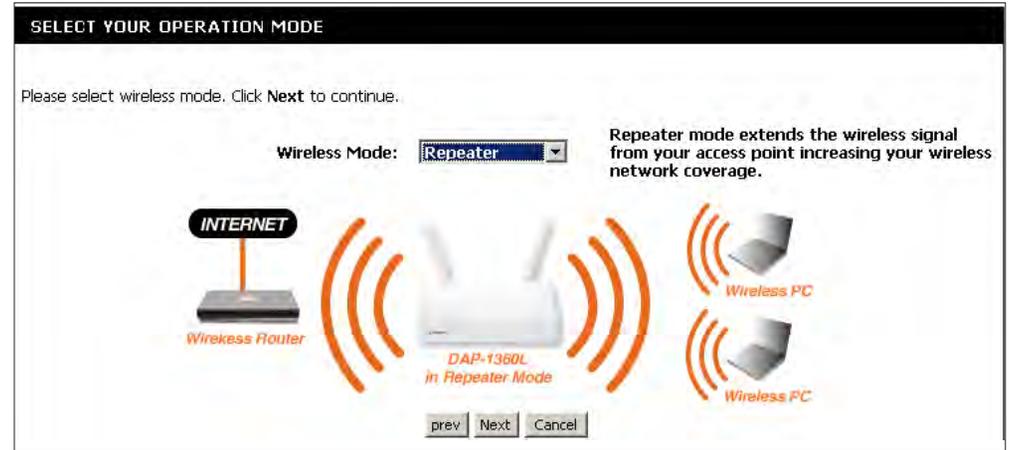
Last name :

[I Accept the mydlink terms and conditions.](#)

Repeater Mode

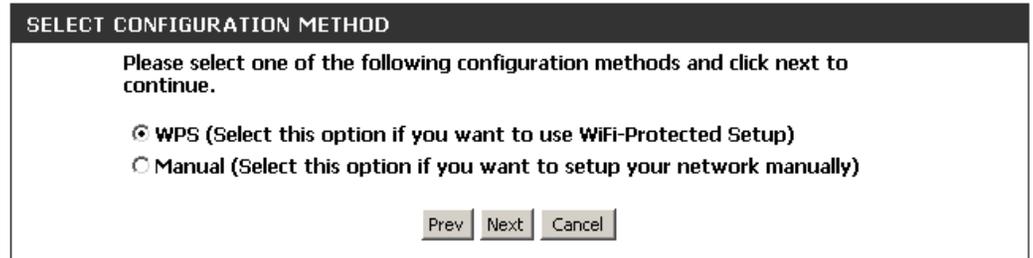
This Wizard is designed to assist you in configuring your DAP-1260L as a repeater.

Select **Repeater** from the drop-down menu.

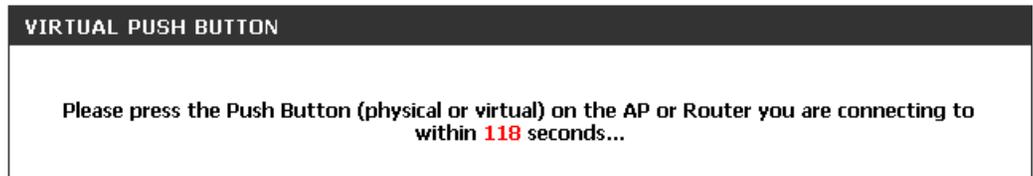


Select **WPS** as the configuration method only if your wireless device supports Wi-Fi Protected Setup (WPS). For **Manual** setup, skip to the next page.

Click **Next** to continue.



On the device you want to connect to, start the PBC process on the device. You will have 2 minutes to start the PBC process on both devices.



Section 3 - Configuration

Select **Manual** configuration to set up your network manually.

Click **Next** to continue.

Please wait while the DAP-1260L scans for available Wi-Fi networks.

Find your router or access point from the list, click the radio button in the right column to select it, and click **Connect**.

SELECT CONFIGURATION METHOD

Please select one of the following configuration methods and click next to continue.

- WPS (Select this option if you want to use WiFi-Protected Setup)
 Manual (Select this option if you want to setup your network manually)

Prev Next Cancel

SELECT WI-FI NETWORK

Scanning for available Wi-Fi network...



SELECT WI-FI NETWORK

| ID | Wi-Fi Network Name | Encrypt | Channel | Signal(%) | Select |
|----|----------------------|------------------------------|---------|-----------|----------------------------------|
| 1 | Please wait while IP | WPA-PSK(auto)/WPA2-PSK(auto) | 4 | 93 | <input checked="" type="radio"/> |
| 2 | dlink-07725 | WPA-PSK(auto)/WPA2-PSK(auto) | 8 | 87 | <input type="radio"/> |
| 3 | D-Link | no | 6 | 78 | <input type="radio"/> |
| 4 | Welcome to Kaohsiun | WPA-PSK(auto)/WPA2-PSK(auto) | 1 | 74 | <input type="radio"/> |
| 5 | dlink_DWR-921 | no | 11 | 74 | <input type="radio"/> |
| 6 | (>O.<) <(o.O< | WPA-PSK(auto)/WPA2-PSK(auto) | 1 | 71 | <input type="radio"/> |
| 7 | D-Link | no | 6 | 65 | <input type="radio"/> |
| 8 | D-Link_Guest | no | 6 | 65 | <input type="radio"/> |
| 9 | ASUS | WPA-PSK(auto)/WPA2-PSK(auto) | 6 | 62 | <input type="radio"/> |
| 10 | MSPBU_DIR-506L | no | 8 | 59 | <input type="radio"/> |
| 11 | D-Link BDPM | WPA2-PSK(auto) | 10 | 59 | <input type="radio"/> |
| 12 | D-Link | no | 11 | 59 | <input type="radio"/> |
| 13 | DIR-845L | WPA-PSK(auto)/WPA2-PSK(auto) | 9 | 59 | <input type="radio"/> |
| 14 | DIR-835-Claire | WPA-PSK(auto)/WPA2-PSK(auto) | 1 | 56 | <input type="radio"/> |
| 15 | NETGEAR | no | 9 | 53 | <input type="radio"/> |
| 16 | WaDaSiWa-Mike-Des | WPA-PSK(auto)/WPA2-PSK(auto) | 5 | 53 | <input type="radio"/> |
| 17 | D-Link | no | 11 | 53 | <input type="radio"/> |
| 18 | nonoyes19870908 | WPA-PSK(auto)/WPA2-PSK(auto) | 1 | 49 | <input type="radio"/> |
| 19 | D-Link | no | 1 | 46 | <input type="radio"/> |
| 20 | D-Link_Guest | no | 1 | 43 | <input type="radio"/> |
| 21 | NETGEAR | no | 6 | 43 | <input type="radio"/> |
| 22 | D-Link | no | 1 | 40 | <input type="radio"/> |
| 23 | DAP-1320-Hans | WPA-PSK(auto)/WPA2-PSK(auto) | 3 | 40 | <input type="radio"/> |
| 24 | dlink835 | WPA-PSK(auto)/WPA2-PSK(auto) | 6 | 40 | <input type="radio"/> |
| 25 | DIR-615.Rob | WPA-PSK(auto)/WPA2-PSK(auto) | 2 | 40 | <input type="radio"/> |
| 26 | dlink-66A7 | WPA-PSK(auto)/WPA2-PSK(auto) | 1 | 40 | <input type="radio"/> |
| 27 | remote | WPA2-PSK(tkip) | 9 | 40 | <input type="radio"/> |
| 28 | D-Link | no | 11 | 37 | <input type="radio"/> |
| 29 | AirPort Express | WPA2-PSK(aes) | 11 | 37 | <input type="radio"/> |
| 30 | dlink_Betty | WPA-PSK(auto)/WPA2-PSK(auto) | 4 | 37 | <input type="radio"/> |
| 31 | TN_private_76607A | WPA-PSK(auto)/WPA2-PSK(auto) | 6 | 34 | <input type="radio"/> |
| 32 | dlink1 | no | 8 | 34 | <input type="radio"/> |

Rescan Connect Cancel

If you have selected a Wi-Fi network with **WEP** or **WPA/WPA2**, enter the Wi-Fi password.

Click **Next** to complete the Setup Wizard.

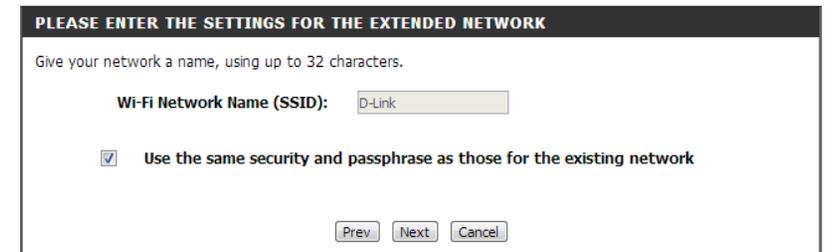


ENTER WI-FI PASSWORD

Please enter Wi-Fi Password to establish wireless connection.

Wi-Fi Password:

Give your extended network a new name for your wireless network (SSID). You can also instead use the same SSID and passphrase as the Wi-Fi network you have connected to. Click **Next** to continue.



PLEASE ENTER THE SETTINGS FOR THE EXTENDED NETWORK

Give your network a name, using up to 32 characters.

Wi-Fi Network Name (SSID):

Use the same security and passphrase as those for the existing network

The Wireless Setup Wizard is complete. Click **Finish** to reboot the device.



CONNECT TO WIRELESS DEVICE

The Wi-Fi setup wizard has completed

Wireless Client Mode

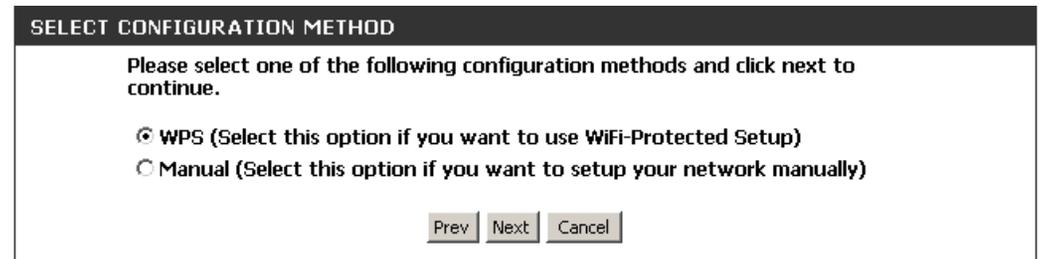
This Wizard is designed to assist you in configuring your DAP-1260L as a wireless client.

Select **Wireless Client** from the drop-down menu.

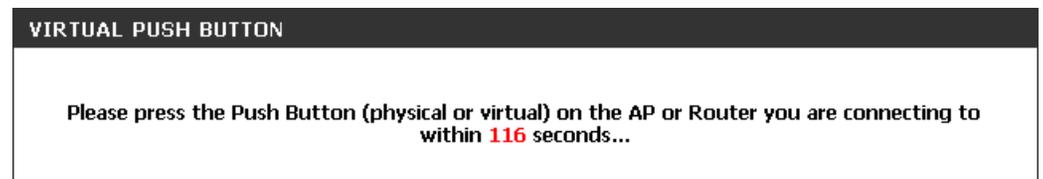


Select **WPS** as the configuration method only if your wireless device supports Wi-Fi Protected Setup (WPS). For **Manual** setup, skip to the next page.

Click **Next** to continue.



On the device you want to connect to, start the PBC process on the device. You will have 2 minutes to start the PBC process on both devices.



Select **Manual** configuration to setup your network manually.

Click **Next** to continue.

SELECT CONFIGURATION METHOD

Please select one of the following configuration methods and click next to continue.

WPS (Select this option if you want to use WiFi-Protected Setup)

Manual (Select this option if you want to setup your network manually)

Find your access point from the list, click the radio button in the right column, and click **Connect**.

SELECT WI-FI NETWORK

| ID | Wi-Fi Network Name | Encrypt | Channel | Signal(%) | Select |
|----|----------------------|----------------------------|---------|-----------|----------------------------------|
| 1 | dlink | no | 11 | 100 | <input type="radio"/> |
| 2 | dlink | no | 6 | 96 | <input type="radio"/> |
| 3 | Apple Network c3af3a | no | 3 | 74 | <input type="radio"/> |
| 4 | vanilla | WEP | 1 | 65 | <input checked="" type="radio"/> |
| 5 | m-lounge | WPA-PSK(aes)/WPA2-PSK(aes) | 11 | 56 | <input type="radio"/> |
| 6 | vanilla | WEP | 6 | 56 | <input type="radio"/> |
| 7 | vanilla | WEP | 1 | 53 | <input type="radio"/> |
| 8 | 00265a493e1e | WPA2-PSK(aes) | 11 | 53 | <input type="radio"/> |
| 9 | telus045 | WPA-PSK(tkip) | 1 | 53 | <input type="radio"/> |
| 10 | vanilla | WEP | 1 | 49 | <input type="radio"/> |
| 11 | vanilla | WEP | 11 | 43 | <input type="radio"/> |
| 12 | vanilla | WEP | 11 | 40 | <input type="radio"/> |

If you have selected a Wi-Fi network with **WEP** or **WPA/WPA2**, enter the Wi-Fi password. Click **Next** to complete the Setup Wizard.

ENTER WI-FI PASSWORD

Please enter Wi-Fi Password to establish wireless connection.

Wi-Fi Password:

The Wireless Setup Wizard is complete. Click **Finish** to reboot the device.



Manual Configuration

Wireless Setup

You may manually configure your DAP-1260L instead of running the setup wizard.

- Access Point mode - page 41
- Wireless Client mode - page 43
- Repeater Mode - page 44

Access Point Mode

Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions. You may also set up a specific time range (schedule). Select a schedule from the drop-down menu or click **Add New** to create a new schedule.

Wireless Mode: Select **Access Point** from the drop-down menu.

Wireless Network Name: When you are browsing for available wireless networks, this is the name that will appear in the list (unless Visibility Status is set to Invisible, see below). This name is also referred to as the SSID. For security purposes, it is highly recommended to change from the default network name.

802.11 Mode: Select one of the following:
802.11n Only - Select if you are only using 802.11n wireless clients.
Mixed 802.11n and 802.11g - Select if you are using a mix of 802.11n and 11g wireless clients.
Mixed 802.11n, 802.11g and 802.11b - Select if you are using a mix of 802.11n, 11g, and 11b wireless clients.

Wireless Channel: Indicates the channel setting for the DAP-1260L. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable Auto Channel Scan, this option will be grayed out.

Enable Auto Channel Scan: The **Auto Channel Scan** setting can be selected to allow the DAP-1260L to choose the channel with the least amount of interference.

Channel Width: Select the Channel Width:
Auto 20/40 - Select if you are using both 802.11n and non-802.11n wireless devices.
20MHz - Select if you are not using any 802.11n wireless clients.

D-Link

DAP-1260L // AP SETUP ADVANCED MAINTENANCE STATUS HELP

WIRELESS NETWORK

Use this section to configure the wireless settings for your D-Link Access Point. Please note that changes made on this section may also need to be duplicated on your wireless client.

Save Settings Don't Save Settings Reboot Now

WIRELESS NETWORK SETTINGS :

Enable Wireless : Always

Wireless Mode : Access Point

Wireless Network Name : dlink (Also called the SSID)

802.11 Mode : Mixed 802.11n, 802.11g and 802.11b

Wireless Channel : 6

Enable Auto Channel Scan :

Channel Width : Auto 20/40MHz

Visibility Status : Visible Invisible

WIRELESS SECURITY MODE :

Security Mode : None

Helpful Hints...

Wireless Mode : Select a function mode to configure your wireless network. Function wireless modes include Access Point, AP Client, Repeater, WiFi HotSpot and Router. Function wireless modes are designed to support various wireless network topologies and applications.

Wireless Network Name : Changing your Wireless Network Name is the first step in securing your wireless network. We recommend that you change it to a familiar name that does not contain any personal information.

Hidden Wireless : Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they perform scan to see what's available. In order for your wireless devices to connect to your AP, you will need to

Visibility Status: Check the box if you do not want the SSID of your wireless network to be broadcasted by the DAP-1260L. If checked, the SSID of the DAP-1260L will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DAP-1260L in order to connect to it.

Security Mode: Select a wireless security setting. Options are **None**, **WEP**, **WPA-Personal**, or **WPA-Enterprise**. Refer to the **Wireless Security** section of this manual for a detailed explanation of the wireless security options.

Wireless Client Mode

Wireless Mode: Select **Wireless Client Mode** from the drop-down menu.
Site Survey:

Wireless Type: Click **Site Survey** to display a list of wireless networks in your area. You may select the wireless access point to connect to. Select **Infrastructure** if connecting to an access point or wireless router, or select **Ad-Hoc** if connecting to another wireless client.

Wireless Network Name: Enter the SSID of the access point you want to repeat the signal of. If you do not know for sure, click **Site Survey** and select it from the list, if available.

802.11 Mode: Select the appropriate 802.11 mode based on the wireless clients in your network. The drop-down menu options are **802.11n Only**, **Mixed 802.11n/g**, or **Mixed 802.11n/g/b**.

Wireless Channel: The channel will automatically change to the channel of the AP you are connected to.

Enable Auto Channel Scan: The **Auto Channel Scan** setting can be selected to allow the DAP-1260L to choose the channel with the least amount of interference.

Channel Width: Select the appropriate channel width between **20MHz** or **Auto 20/40MHz** from the drop-down menu.

Visibility Status: Check the box if you do not want the SSID to be broadcast by the DAP-1260L. This prevents the SSID from being seen by site survey utilities, so any wireless clients will have to be pre-configured with the SSID of the DAP-1260L in order to connect to it.

Wireless MAC Clone: Check **Enable** if you can clone the wireless MAC address to connect the device.

Wireless Security Mode: Select a wireless security setting. Options are **None**, **WEP**, or **WPA-Personal**. See the Wireless Security section in this manual for a detailed explanation of the wireless security options.

WPS: Check **Enable** if you want to configure the DAP-1260L with Wi-Fi Protection setup.

The screenshot shows the D-Link configuration interface for the DAP-1260L Router. The main navigation tabs are SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The current page is WIRELESS NETWORK, which is highlighted in orange. Below the navigation tabs, there are several sections for configuring the wireless network:

- WIRELESS NETWORK:** A warning message states: "Use this section to configure the wireless settings for your D-Link Access Point. Please note that changes made on this section may also need to be duplicated on your wireless client." Below this are buttons for "Save Settings", "Don't Save Settings", and "Reboot Now".
- WIRELESS NETWORK SETTINGS:**
 - Wireless Mode: Wireless Client (with a Site Survey button)
 - Wireless Type: Infrastructure
 - Wireless Network Name: dlink (Also called the SSID)
 - 802.11 Mode: Mixed 802.11n, 802.11g and 802.11b
 - Wireless Channel: 6
 - Enable Auto Channel Scan:
 - Channel Width: Auto 20/40MHz
 - Visibility Status: Visible Invisible
- WIRELESS MAC CLONE:**
 - Enable:
 - MAC Source: Auto
 - MAC Address: [Text Field]
 - Scan: [Button]
 - MAC Address: [Text Field]
- WIRELESS SECURITY MODE:**
 - Security Mode: None
- WIFI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA):**
 - Enable:
 - Current PIN: [Text Field]
 - Buttons: Reset PIN to Default, Generate New PIN, Process WPS

On the right side of the page, there is a "Helpful Hints..." section with the following text:

Wireless Mode : Select a function mode to configure your wireless network. Function wireless modes include Access Point, AP Client, Repeater, WiFi HotSpot and Router. Function wireless modes are designed to support various wireless network topologies and applications.

Wireless Network Name : Changing your Wireless Network Name is the first step in securing your wireless network. We recommend that you change it to a familiar name that does not contain any personal information.

Hidden Wireless : Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they perform scan to see what's available. In order for your wireless devices to connect to your AP, you will need to manually enter the Wireless Network Name on each device.

Security Keys : If you have enabled Wireless Security, make sure you write down WEP Key or Passphrase that you have configured. You will need to enter this information on any wireless device that you

Repeater Mode

Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions. You may also set up a specific time range (schedule). Select a schedule from the drop-down menu or click **Add New** to create a new schedule.

Wireless Mode: Select **Repeater** from the drop-down menu.

Site Survey: Click **Site Survey** to display a list of wireless networks in your area. You may select the wireless access point to connect to.

Wireless Network Name: Enter the SSID of the access point you want to repeat the signal of. If you do not know for sure, click **Site Survey** and select it from the list, if available.

802.11 Mode: Select the appropriate 802.11 mode based on the wireless clients in your network. The drop-down menu options are **802.11n Only**, **Mixed 802.11n/g**, or **Mixed 802.11n/g/b**.

Enable Auto Channel Scan: The **Auto Channel Scan** setting can be selected to allow the DAP-1260L to choose the channel with the least amount of interference.

Wireless Channel: The channel will automatically change to the channel of the AP you are connected to.

Channel Width: Select the appropriate channel width between **20MHz** or **Auto 20/40MHz** from the drop-down menu.

Visibility Status: Check the box if you do not want the SSID to be broadcast by the DAP-1260L. This prevents the SSID from being seen by site survey utilities, so any wireless clients will have to be pre-configured with the SSID of the DAP-1260L in order to connect to it.

Wireless Security Mode: Select a wireless security setting. Options are **None**, **WEP**, or **WPA-Personal**. See the Wireless Security section in this manual for a detailed explanation of the wireless security options.

WPS: Check **Enable** if you want to configure the DAP-1260L with Wi-Fi Protection setup.

The screenshot shows the D-Link configuration interface for the DAP-1260L in Repeater mode. The 'WIRELESS NETWORK' section is highlighted in orange. It contains the following settings:

- Enable Wireless:** Always Add New
- Wireless Mode:** Repeater
- Repeater Network Name:** dlink
- Local Wi-Fi Network Name:**
 - Same as Repeater Name
 - Create a new Wi-Fi Network Name
 - dlink (Also called the SSID)
- 802.11 Mode:** Mixed 802.11n, 802.11g and 802.11b
- Wireless Channel:** 6
- Enable Auto Channel Scan:**
- Channel Width:** Auto 20/40MHz
- Visibility Status:** Visible Invisible

The **WIRELESS SECURITY MODE** section shows:

- Security Mode:** None

The **WIFI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA)** section shows:

- Enable:**
- Current PIN:** [Field]
-

Helpful Hints on the right side include:

- Wireless Mode:** Select a function mode to configure your wireless network. Function wireless modes include Access Point, AP Client, Repeater, WiFi HotSpot and Router. Function wireless modes are designed to support various wireless network topologies and applications.
- Wireless Network Name:** Changing your Wireless Network Name is the first step in securing your wireless network. We recommend that you change it to a familiar name that does not contain any personal information.
- Hidden Wireless:** Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they perform scan to see what's available. In order for your wireless devices to connect to your AP, you will need to manually enter the Wireless Network Name on each device.
- Security Keys:** If you have enabled Wireless Security, make sure you write down WEP Key or Passphrase that you have configured. You will

Static IP

Select Static IP if all WAN IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP.

IP Address: 192.168.1.1 is the default WAN IP Address of the DAP-1260L.

Subnet Mask: 255.255.255.0 is the default subnet mask. All devices on the network must have the same subnet mask to communicate on the network.

Default Gateway: Enter the IP Address of the gateway in your network.

MTU Size: You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. The default MTU size is 1500.

Primary DNS Server: Enter the Primary DNS (Domain Name System) server IP address assigned by your ISP.

Secondary DNS Server: Enter the Secondary DNS (optional) server IP address assigned by your ISP.

Clone MAC Address: The default MAC address is set to the MAC address on the AP (Access Point). You can click the Clone Your PC's MAC Address button to replace the AP's MAC address with the MAC address of your Ethernet card. It is not recommended that you change the default MAC address unless required by your ISP.

WAN SETTINGS :

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE or PPTP by click the item value of WAN Access type.

My Internet Connection is :

IP Address :

Subnet Mask :

Default Gateway :

MTU Size : **(bytes) MTU default= 1500**

Primary DNS Server :

Secondary DNS Server :

Clone MAC Address :

PPPoE

Select PPPoE (Point-to-Point Protocol over Ethernet) if your ISP uses a PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services. Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through the DAP-1260L.

Username: Enter your PPPoE user name.

Password: Enter your PPPoE password and then retype the password in the next box.

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

Reconnection Type: Select **Always on**, **On demand**, or **Manual**.

Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity.

MTU Size: You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. The maximum/default MTU size is 1492.

Attain DNS Automatically: Select this option if you want the DAP-1260L to get the DNS (Domain Name System) server IP address automatically.

Set DNS Manually: Select this option if you want to manually enter the DNS Server IP address(es). Fields to enter the Primary and Secondary DNS server IP addresses will appear after you select this option.

DNS Servers: Enter the Primary and Secondary DNS server IP address assigned by your ISP.

Clone MAC Address: The default MAC address is set to the MAC address on the AP (Access Point). You can click the **Clone Your PC's MAC Address** button to replace the AP's MAC address with the MAC address of your Ethernet card. It is not recommended that you change the default MAC address unless required by your ISP.

WAN SETTINGS :

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE or PPTP by click the item value of WAN Access type.

My Internet Connection is : PPPoE(Username / Password) ▼

Username :

Password :

Verify Password :

Service Name : (optional)

Reconnection Type : Always on ▼

Maximum Idle Time : (1-1000 minutes)

MTU Size : (bytes) MTU default= 1500

Attain DNS Automatically

Set DNS Manually

Primary DNS Server :

Secondary DNS Server :

Clone MAC Address :

PPTP

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

PPTP IP Address: Enter the IP address (Static PPTP only).

PPTP Subnet Mask: Enter the subnet mask.

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

Username: Enter your PPTP username.

Password: Enter your PPTP password and then retype the password in the next box.

MTU Size: You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. The default MTU size is 1400.

Attain DNS Automatically: Select this option if you want the DAP-1260L get DNS server IP address automatically.

Set DNS Automatically: Select this option if you want to manually enter the DNS Server IP address(es). Fields to enter the Primary and Secondary DNS server IP addresses will appear after you select this option.

Enter the Primary and Secondary DNS (Domain Name System) server IP address assigned by your ISP.

DNS Servers: The default MAC address is set to the MAC address on the AP (Access Point). You can click the **Clone Your PC's MAC Address** button to replace the AP's MAC address with the MAC address of your Ethernet card. It is not recommended that you change

Clone MAC Address: the default MAC address unless required by your ISP.

WAN SETTINGS :

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE or PPTP by click the item value of WAN Access type.

My Internet Connection is : PPTP(Username / Password) ▼

PPTP IP Address :

PPTP Subnet Mask :

PPTP Server IP Address :

Username :

Password :

Verify Password :

MTU Size : (bytes) MTU default= 1400

Attain DNS Automatically

Set DNS Manually

Clone MAC Address :

LAN Settings

This section will allow you to change the local network settings of the access point and to configure the DHCP settings.

Device Name: Enter the Device Name of the AP. It is recommended to change the Device Name if there is more than one D-Link device within the subnet.

LAN Connection Type: Use the drop-down menu to select Dynamic IP (DHCP) to automatically obtain an IP address on the LAN/private network.

D-Link

DAP-1360L // Router

SETUP ADVANCED MAINTENANCE STATUS HELP

SETUP WIZARD
INTERNET SETUP
WIRELESS SETUP
LAN SETUP

NETWORK SETTINGS :

Use this section to configure the internal network settings of your AP. Device Name allows you to configure this device more easily when your network using TCP/IP protocol. You can enter the device name of the AP into your web browser to access the instead of IP address for configuration. Recommend to change the device name if there're more than one D-Link devices within the subnet.

Save Settings Don't Save Settings Reboot Now

DEVICE NAME :

Device Name allows you to configure this device more easily. You can enter "http://"device name into your web browser instead of IP address for configuration. (Default: http://dlinkap)

Device Name :

LAN IPV4 CONNECTION TYPE :

Choose the IPv4 mode to be used by the Access Point.

My LAN Connection is :

STATIC IP ADDRESS LAN CONNECTION TYPE :

Enter the IPv4 Address information.

IP Address :

Subnet Mask :

Gateway Address :

Primary DNS Server :

Secondary DNS Server :

Helpful Hints..

LAN Settings :

LAN Connection type :
The factory default setting is "Static IP" which allows the IP address of the DAP-1360L to be manually configured in accordance to the applied local area network. Enable Dynamic (DHCP) to allow the DHCP host to automatically assign the Access Point an IP address that conforms to the applied local area network.

IP Address :
The default IP address is 192.168.0.50. It can be modified to conform to an existing local area network. Please note that the IP address of each device in the wireless local area network must be within the same IP address range and subnet mask. Take default DAP-1360L IP address as an example, each station associated to the AP must be configured with a unique IP address falling in the range of 192.168.0.*, ** ranges from 1 to 254 but 50 in this case.

Subnet Mask :
A mask used to determine what subnet an IP address belongs to. The default subnet setting is 255.255.255.0

Static IP

Select Static IP Address if all the Internet port's IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The Access point will not accept the IP address if it is not in this format.

Device Name: Enter the Device Name of the AP. It recommended to change the Device Name if there is more than one D-Link device within the subnet. You can enter the device name of the AP into your web browser to access the instead of IP address for configuration. If you are using the device name to connect, ensure that your PC and your DAP-1260L are on the same network.

LAN Connection Type: Select Static IP from the drop-down menu.

IP Address: Enter the IP address of the access point. The default IP address is 192.168.0.50. If you change the IP address, once you click **Apply**, 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 assigned by your ISP.

Default Gateway: Enter the Gateway assigned by your ISP.

Primary DNS Server: Enter the Primary DNS Server assigned by your ISP.

Secondary DNS Server: Enter the Secondary DNS Server (if there is one) assigned by your ISP.

The screenshot shows the D-Link web interface for the DAP-1260L Router. The page is titled "D-Link" and has a navigation menu with "SETUP WIZARD", "INTERNET SETUP", "WIRELESS SETUP", and "LAN SETUP". The "LAN SETUP" section is active, showing "NETWORK SETTINGS :".

NETWORK SETTINGS :
Use this section to configure the internal network settings of your AP. Device Name allows you to configure this device more easily when your network using TCP/IP protocol. You can enter the device name of the AP into your web browser to access the instead of IP address for configuration. Recommend to change the device name if there're more than one D-Link devices within the subnet.
Buttons: Save Settings, Don't Save Settings, Reboot Now.

DEVICE NAME :
Device Name allows you to configure this device more easily. You can enter "http://device name" into your web browser instead of IP address for configuration. (Default: http://dlinkap)
Device Name: dlinkap

LAN IPV4 CONNECTION TYPE :
Choose the IPv4 mode to be used by the Access Point.
My LAN Connection is: Static IP

STATIC IP ADDRESS LAN CONNECTION TYPE :
Enter the IPv4 Address information.
IP Address: 192.168.0.50
Subnet Mask: 255.255.255.0
Gateway Address: 192.168.0.50
Primary DNS Server: 0.0.0.0
Secondary DNS Server: 0.0.0.0

DHCP SERVER SETTINGS :
Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.
Enable DHCP Server:
DHCP IP Address Range: 192.168.0.100 to 192.168.0.200 (addresses within the LAN subnet)
Always Broadcast:
Gateway: 192.168.0.50
WINS: 192.168.0.50
DNS: 192.168.0.50
DHCP Lease Time: 1 Week

DYNAMIC DHCP CLIENT LIST :

| Host Name | IP Address | MAC Address | Expired Time |
|-----------|------------|-------------|--------------|
| none | ---- | ---- | ---- |

Helpful Hints...
LAN Settings :
LAN Connection type :
The factory default setting is "Static IP" which allows the IP address of the DAP-1260L to be manually configured in accordance to the applied local area network. Enable Dynamic (DHCP) to allow the DHCP host to automatically assign the Access Point an IP address that conforms to the applied local area network.
IP Address :
The default IP address is 192.168.0.50. It can be modified to conform to an existing local area network. Please note that the IP address of each device in the wireless local area network must be within the same IP address range and subnet mask. Take default DAP-1260L IP address as an example, each station associated to the AP must be configured with a unique IP address falling in the range of 192.168.0.*.*** ranges from 1 to 254 but 50 in this case.
Subnet Mask :
A mask used to determine what subnet an IP address belongs to. The default subnet setting is 255.255.255.0.
Gateway :
Specify the gateway IP address of the local network.
DHCP Server :
If you already have a DHCP server on your network or are using static IP addresses on all the devices on your network, uncheck Enable DHCP Server to disable this feature.

Enable DHCP Server: Click to enable the use of the built-in DHCP server.

DHCP IP Address Range: Enter the IP addresses of the devices on your network.

Always Broadcast: Click to always broadcast.

Gateway: Enter the Gateway address.

WINS: Enter the WINS Server address.

DNS: Enter the DNS Server.

DHCP Lease Time: Enter the time period for which the DHCP server leases its IP addresses to devices on your network.

Mydlink Settings

This page allows you use its mydlink cloud services features including online access and management of your device through mydlink portal website. This feature is only available in AP mode.

Register mydlink service: Click to register for mydlink service.

The screenshot displays the D-Link Mydlink Settings web interface. At the top, the D-Link logo is visible. Below it, a navigation bar includes tabs for 'DAP-1260L // AP', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' tab is selected, and a sidebar on the left lists 'SETUP WIZARD', 'WIRELESS SETUP', 'LAN SETUP', and 'MYDLINK SETTINGS'. The main content area is titled 'MYDLINK EVENT MANAGEMENT' and contains the following text: 'Setting and registering your product with mydlink will allow you to use its mydlink cloud services features, including online access and management of your device through mydlink portal website.' Below this text are three buttons: 'Save Settings', 'Don't Save Settings', and 'Reboot Now'. Further down, the 'MYDLINK' status is shown as 'mydlink Service : Non-Registered' and 'mydlink Account : NONE'. At the bottom, the 'REGISTER MYDLINK SERVICE' section features a 'register.mydlink.service' button. A 'Helpful Hints...' link is located on the right side of the interface.

Advanced Access Control

The Access Control filter section can be used to filter network access by machines based on the unique MAC addresses of their network adapter(s). It is most useful to prevent unauthorized wireless devices from connecting to your network. A MAC address is a unique ID assigned by the manufacturer of the network adapter.

Configure MAC Filtering: When **Turn MAC Filtering OFF** is selected, MAC addresses are not used to control network access. When **Turn MAC Filtering ON and ALLOW computers listed to access the network** is selected, only computers with MAC addresses listed in the MAC Address List are granted network access. When **Turn MAC Filtering ON and DENY computers listed to access the network** is selected, any computer with a MAC address listed in the MAC Address List is refused access to the network.

Add MAC Filtering Rule: This parameter allows you to manually add a MAC filtering rule. Click the **Add** button to add the new MAC filtering rule to the MAC Filtering Rules list at the bottom of this screen.

D-Link

DAP-1260L // AP SETUP **ADVANCED** MAINTENANCE STATUS HELP

ACCESS CONTROL

ADVANCED WIRELESS

WI-FI PROTECTED SETUP

USER LIMIT

MAC ADDRESS FILTER :

The MAC (Media Access Controller) Address filter option is used to control network access based on the MAC Address of the network adapter. A MAC address is a unique ID assigned by the manufacturer of the network adapter. This feature can be configured to ALLOW or DENY network/Internet access.

Save Settings Don't Save Settings Reboot Now

ACCESS CONTROL SETTINGS

Configure MAC Filtering below :

Turn MAC Filtering OFF

| | MAC Address | | Client List | |
|--------------------------|-------------------|----|-------------|-------|
| <input type="checkbox"/> | 00:00:00:00:00:00 | << | MAC Address | Clear |
| <input type="checkbox"/> | 00:00:00:00:00:00 | << | MAC Address | Clear |
| <input type="checkbox"/> | 00:00:00:00:00:00 | << | MAC Address | Clear |
| <input type="checkbox"/> | 00:00:00:00:00:00 | << | MAC Address | Clear |

Helpful Hints..

Wireless Access Settings:
Create a list of MAC addresses that you would either like to accept or reject access to your network.

Connected PCs:
Select a MAC address from the drop down menu, then click the arrow to add that MAC address to the list.

IP Filter:
Click the Clear button to remove the MAC Filtering list.

Advanced Wireless

Transmit Power: Sets the transmit power of the antennas.

WMM Enable: WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients.

Short GI: Check this box to reduce the guard interval time therefore increasing the data capacity. However, it's less reliable and may create higher data loss.

IGMP Snooping: This enables IGMP snooping for the wireless connection. We recommend enabling this if you often use multicast services such as video conferencing and streaming audio/video.

WLAN Partition: This feature enables client isolation. If enabling, all clients will not be able to view or access each other's information or within the network.

HT 20/40 Coexistence: Check to enable or disable this feature.

D-Link

DAP-1360L // AP

SETUP **ADVANCED** MAINTENANCE STATUS HELP

ACCESS CONTROL

ADVANCED WIRELESS

WI-FI PROTECTED SETUP

USER LIMIT

ADVANCED WIRELESS SETTINGS :

If you are not familiar with these Advanced Wireless settings, please read the help section before attempting to modify these settings.

Save Settings Don't Save Settings Reboot Now

ADVANCED WIRELESS SETTINGS :

Transmit Power : 100%

WMM Enable :

Short GI :

IGMP Snooping :

WLAN Partition :

HT 20/40 Coexistence : Enable Disable

Helpful Hints..

Advanced Wireless:
It is recommended that you leave these options at their default values. Adjusting them could negatively impact the performance of your wireless network.
The options on this page should be changed by advanced users or if you are instructed to by one of our support personnel, as they can negatively affect the performance of your Access Point if configured improperly.

Transmit Power:
You can lower the output power of the DAP-1360L by selecting lower percentage Transmit Power values from the drop down. Your choices are: 100%, 75%, 50% & 25%.

Wi-Fi Protected Setup

Wi-Fi Protected Setup (WPS) System is a simplified method for securing your wireless network during the “Initial setup” as well as the “Add New Device” processes. The Wi-Fi Alliance (WFA) has certified it across different products as well as manufactures. The process is just as easy, as depressing a button for the Push-Button Method or correctly entering the 8-digit code for the Pin-Code Method. The time reduction in setup and ease of use are quite beneficial, while the highest wireless Security setting of WPA2 is automatically used.

Enable: Check this box to enable the function

Lock Wireless Security Settings: Locking the wireless security settings prevents the settings from being changed by the Wi-Fi Protected Setup feature of the router. Devices can still be added to the network using Wi-Fi Protected Setup. However, the settings of the network will not change once this option is checked.

Pin Settings: Click the button to generate a new PIN or Reset to Default.

Current PIN: Shows the current value of the router’s PIN.

Reset PIN to Default: Restore the default PIN of the access point.

Generate New PIN: Create a random number that is a valid PIN. This PIN becomes the router’s PIN. You can then copy this PIN to the user interface of the registrar.

Add Wireless Station: Click the button to start the wizard to set up the WPS.

The screenshot shows the D-Link router's web interface for configuring Wi-Fi Protected Setup (WPS). The page is titled "D-Link" and "DAP-1360L // Router". The navigation menu includes SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists various settings categories: PORT FORWARDING, ACCESS CONTROL, WI-FI PROTECTED SETUP (selected), FIREWALL SETTINGS, ADVANCED WIRELESS, and ADVANCED NETWORK.

The main content area is titled "WI-FI PROTECTED SETUP :". It contains the following sections:

- WI-FI PROTECTED SETUP :** A text box explaining that WPS is used to easily add devices to a network using a PIN or button press. It notes that devices must support WPS and that the PIN will be used in subsequent setups. It also mentions that clicking "Don't Save Settings" will not reset the PIN, but if the new PIN is not saved, it will be lost upon reboot or power loss. Below this text are three buttons: "Save Settings", "Don't Save Settings", and "Reboot Now".
- WIFI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA) :** This section contains two checkboxes: "Enable" (unchecked) and "Lock WPS-PIN Setup" (checked).
- PIN SETTINGS:** This section shows the "Current PIN" as "03072578". Below this are two buttons: "Reset PIN to Default" and "Generate New PIN".
- ADD WIRELESS STATION:** This section contains a single button: "Add Wireless Device With WPS".

On the right side of the page, there is a "Helpful Hints.." section. It states: "Enable if other wireless devices you wish to include in the local network support Wi-Fi Protected Setup." and "Click: Add Wireless Device Wizard to use Wi-Fi Protected Setup to add wireless devices to the wireless network."

User Limits

Enter the maximum number of wireless clients that can connect at one time to your access point. This feature is only available in AP mode.

Enable User Limit: Check the **Enable User Limit** box to enable this feature.

User Limit: Enter the maximum number of clients, between 1 and 32.

Save Settings: Click **Save Settings** to save and activate the new changes.

The screenshot displays the D-Link configuration interface for a DAP-1360L AP. The top navigation bar includes 'D-Link' and tabs for 'DAP-1360L // AP', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists menu items: 'ACCESS CONTROL', 'ADVANCED WIRELESS', 'WI-FI PROTECTED SETUP', and 'USER LIMIT'. The main content area is titled 'USER LIMIT SETTINGS' and contains the following text: 'Please apply the settings to limit how many wireless stations connecting to AP.' Below this text are three buttons: 'Save Settings', 'Don't Save Settings', and 'Reboot Now'. A second 'USER LIMIT SETTINGS' section contains two fields: 'Enable User Limit' with a checked checkbox and 'User Limit (2 - 32)' with a text input field. A 'Helpful Hints..' section on the right explains that User Limit can set a limit on wireless clients to prevent performance degradation in heavy traffic scenarios.

Advanced Network

You can configure several LAN settings for your network. It is not recommended to change these settings from factory default. This feature is only available in Router mode.

Enable UPnP: Click to enable Universal Plug and Play (UPnP) for network devices.

Enable WAN Ping Respond: Click to enable the DAP-1260L's WAN port to respond to ping requests from the Internet.

Enable Remote Management: Click to enable remote management of the DAP-1260L from anywhere over the Internet.

Save Settings: Click **Save Settings** to save and activate the new changes.

The screenshot displays the D-Link Advanced Network Settings interface. The top navigation bar includes 'DAP-1260L // Router', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'ADVANCED' tab is selected, showing the 'ADVANCED NETWORK SETTINGS' section. This section contains three main configuration areas:

- UPNP :** A warning message states, "These options are for users that wish to change the LAN settings. We do not recommend changing these settings from factory default. Changing these settings may affect the behavior of your network." Below this are three buttons: 'Save Settings', 'Don't Save Settings', and 'Reboot Now'. The 'Enable UPnP:' checkbox is currently unchecked.
- WAN PING :** A message states, "If you enable this feature, the WAN port of your DAP-1360L will respond to ping requests from the Internet that are sent to the WAN IP Address." The 'Enable WAN Ping Respond:' checkbox is unchecked.
- REMOTE MANAGEMENT :** A message states, "If you enable this feature, you can manage the DAP-1360L from anywhere on the Internet." The 'Enable Remote Management:' checkbox is unchecked.

On the right side of the page, there is a 'Helpful Hints..' section with three sub-sections: 'Enable UPnP:', 'Enable WAN Ping Respond:', and 'Enable Remote Management:', each providing additional context and instructions for the respective feature.

Maintenance Admin

This page will allow you to change the Administrator password. The administrator password has read/write access.

Password: Enter a new password for the Administrator Login Name. The administrator can make changes to the settings.

Confirm Password: Enter the same password that you entered in the previous textbox in order to confirm its accuracy.

Enable Graphical Authentication: Check to enable this feature.

The screenshot shows the D-Link web interface for a DAP-1260L AP. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE (selected), STATUS, and HELP. A left sidebar contains menu items: ADMIN, SYSTEM, FIRMWARE, TIME, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'DEVICE ADMINISTRATION :'. It contains a text box with instructions: 'Enter the new password in the "New Password" field and again in the next field to confirm. Click on "Save Settings" to execute the password change. The Password is case-sensitive, and can be made up of any keyboard characters. The new password must be between 0 and 15 characters in length.' Below this are three buttons: 'Save Settings', 'Don't Save Settings', and 'Reboot Now'. Underneath is a 'PASSWORD :' section with two password input fields labeled 'New Password :' and 'Confirm Password :'. At the bottom is an 'ADMINISTRATION :' section with a checkbox labeled 'Enable Graphical Authentication :'. On the right side, there is a 'Helpful Hints..' section with the text: 'Passwords: For security reasons, it is recommended that you change the Password for the Administrator accounts. Be sure to write down the Passwords to avoid having to reset the AP in the event that they are forgotten.'

System

Save to Local Hard Drive: Use this option to save the current access point configuration settings to a file on the hard disk of the computer you are using. Click the **Save** button. You will then see a file dialog where you can select a location and file name for the settings.

Upload from Local Hard Drive: Use this option to load previously saved access point configuration settings. Click **Browse** to find a previously saved configuration file. Then, click the **Upload Settings** button to transfer those settings to the access point.

Restore to Factory Default: This option will restore all configuration settings back to the settings that were in effect at the time the access point 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 access point configuration settings, use the **Save** button above.

Note: Restoring the factory default settings will not reset the Wi-Fi Protected Status to Not Configured.

Reboot the Device: Click to reboot the access point.

The screenshot shows the D-Link configuration interface for a DAP-1360L Router. The top navigation bar includes 'D-Link', 'DAP-1360L Router', and tabs for 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists menu items: ADMIN, SYSTEM, FIRMWARE, TIME, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'SAVE AND RESTORE' and contains the following text and buttons:

SAVE AND RESTORE :
The current system settings can be saved as a file onto the local hard drive. You can upload any saved settings file that was created by the DAP-1360L.

SAVE AND RESTORE :

Save Settings To Local Hard Drive :

Load Settings From Local Hard Drive : No file chosen

Restore To Factory Default Settings :

Reboot The Device :

On the right side, there is a 'Helpful Hints..' section titled 'Saving System Settings:' with the following text: 'Once your Access Point is configured the way you want it, you can save these settings to a configuration file that can later be loaded in the event that the AP's default settings are restored. To do this, click the Save button next to where it says Save Settings to Local Hard Drive.'

Firmware

You can upgrade the firmware of the access point here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on **Browse** to locate the firmware file to be used for the update. Please check the D-Link support website for firmware updates at <http://support.dlink.com>. You can download firmware upgrades to your hard drive from this site.

Firmware Upgrade: Click on **Check Now** to find out if there is updated firmware; if so, download the new firmware to your hard drive.

Browse: After you have downloaded the new firmware, click **Choose File** to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade.

Upload: Once you have a firmware update on your computer, use this option to browse for the file and then upload the information into the access point.

Language Pack

You can change the language of the web UI by uploading available language packs.

Browse: After you have downloaded the new language pack, click **Browse** to locate the language pack file on your hard drive. Click **Upload** to complete the language pack upgrade.

The screenshot shows the D-Link web interface for a DAP-1360L Router. The interface is divided into several sections:

- Navigation:** A top bar with the D-Link logo and a menu with tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. A left sidebar contains links for ADMIN, SYSTEM, FIRMWARE, TIME, SYSTEM CHECK, and SCHEDULES.
- FIRMWARE UPDATE:** A section with an orange header. It contains a message: "There may be new firmware for your DAP-1360L to improve functionality and performance. [Click here to check for an upgrade on our support site.](#)" Below this is another message: "After you have download the new firmware file from our support site, click the Browse button below to find the firmware file on your local hard drive. Click the Save Settings button to update the firmware on the DAP-1360L." A warning states: "Do not update firmware through wireless network!!"
- FIRMWARE INFORMATION:** A section with a black header. It displays: "Current Firmware Version : 1.00 Date : 2012/09/04" and "Current Language Pack Version : No Language pack". Below this is a link: "Check Online Now for Latest Firmware and Language pack Version:
- FIRMWARE UPGRADE:** A section with a black header. It contains a note: "Note: Some firmware upgrades reset the configuration options to the factory defaults. Before performing an upgrade, be sure to save the current configuration from the Maintenance -> System screen." Below the note is a message: "To upgrade the firmware, your PC must have a wired connection to the access point. Enter the name of the firmware upgrade file, and click on the Upload button." At the bottom of this section is an "Upload" area with a "Choose File" button, the text "No file chosen", and an "Upload" button.
- LANGUAGE PACK UPGRADE:** A section with a black header. It contains an "Upload" area with a "Choose File" button, the text "No file chosen", and an "Upload" button.
- Helpful Hints:** A section on the right side of the interface. It contains the text: "Firmware Updates: Firmware updates are released periodically to improve the functionality of your Access Point and also to add features. If you run into a problem with a specific feature of the Access Point, check our support site by clicking on the [Click here to check for an upgrade on our support site](#) link and see if an updated firmware is available for your Access Point."

Time

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in. Daylight Saving can also be configured to automatically adjust the time when needed.

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

Daylight Saving: To select Daylight Saving time manually, click the **Enable Daylight Saving** check box. Next use the drop-down menu to select a Daylight Saving Offset and then enter a start date and an end date for daylight saving time.

Enable NTP Server: NTP is short for Network Time Protocol. NTP synchronizes computer clock times in a network of computers. Check this box to use a NTP server. This will only connect to a server on the Internet, not a local server.

NTP Server Used: Enter the NTP server or select one from the drop-down menu.

Date and Time: To manually input the time, enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second and then click **Save Settings**. You can also click the **Copy Your Computer's Time Settings** button at the bottom of the screen.

The screenshot shows the D-Link configuration interface for the DAP-1260L Router. The 'TIME' section is active, displaying the following settings:

- Time:** 09/04/2012 07:59:40
- Time Zone:** (GMT-08:00) Pacific Time (US & Canada); Tijuana
- Enable Daylight Saving:**
- Daylight Saving Offset:** +1:00
- Daylight Saving Dates:**
 - DST Start: Mar 3rd Sun 2 am
 - DST End: Nov 2nd Sun 2 am
- AUTOMATIC TIME CONFIGURATION:**
 - Enable NTP server:**
 - NTP Server Used:** ntp1.dlink.com
- SET THE DATE AND TIME MANUALLY:**
 - Date and Time:** Year: 2012, Month: Sep, Day: 25, Hour: 16, Minute: 28, Second: 03
 - Copy Your Computer's Time Settings** button

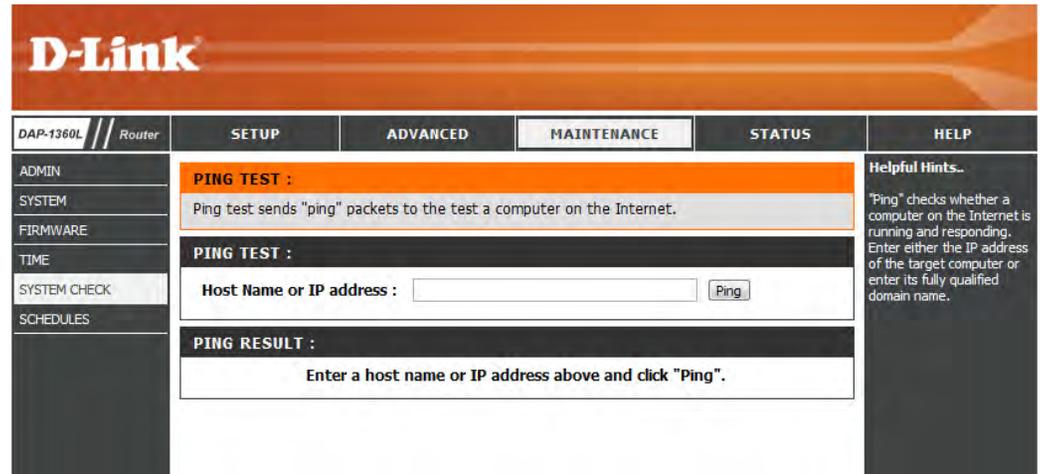
Buttons at the top of the configuration area include 'Save Settings', 'Don't Save Settings', and 'Reboot Now'. A 'Helpful Hints...' section on the right explains that this section allows administrators to configure, update, and maintain the correct time on the Access Point's internal system clock.

System Check

This section Ping Tests by sending ping packets to test if a computer on the internet is running and responding.

Ping Test / IPv6 Ping Test: The Ping Test / IPv6 Ping Test is used to send Ping packets to test if a computer is on the Internet. Enter the host name or IP/IPv6 address that you wish to Ping, and click **Ping**.

Ping Result: The results of your ping attempts will be displayed here.



The screenshot displays the D-Link web interface for a DAP-1360L Router. The main navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists menu items: ADMIN, SYSTEM, FIRMWARE, TIME, SYSTEM CHECK (highlighted), and SCHEDULES. The central content area is titled "PING TEST" and contains the following sections:

- PING TEST :** Ping test sends "ping" packets to the test a computer on the Internet.
- PING TEST :** Host Name or IP address : Ping
- PING RESULT :** Enter a host name or IP address above and click "Ping".

On the right side, there is a "Helpful Hints..." section with the text: "Ping" checks whether a computer on the Internet is running and responding. Enter either the IP address of the target computer or enter its fully qualified domain name.

Schedules

Name: Enter a name for your new schedule.

Days: Select a day, a range of days, or All Week to include every day.

Time: Enter a start and end time for your schedule.

Schedule Rules The list of schedules will be listed here. Click the

List: **Edit** icon to make changes or click the **Delete** icon to remove the schedule.

Note: Schedules is available in all modes except Client mode.

D-Link

DAP-1260L // AP SETUP ADVANCED MAINTENANCE STATUS HELP

ADMIN
SYSTEM
FIRMWARE
TIME
SYSTEM CHECK
SCHEDULES

SCHEDULES :
The Schedule configuration option is used to manage schedule rules for wireless LAN control features.

ADD SCHEDULE RULE :

Name :

Day(s) : All Week Select Day(s)
 Sun Mon Tue Wed Thu Fri Sat

All Day - 24 hrs :

Time format : 24-hour

Start Time : : AM (hour:minute)

End Time : : AM (hour:minute)

SCHEDULE RULES LIST :

| Name | Day(s) | Time Frame |
|------|--------|------------|
| | | |

Helpful Hints...
Schedules are used with a number of other features to define when those features are in effect.
Give each schedule a name that is meaningful to you. For example, a schedule for Monday through Friday from 3:00pm to 9:00pm, might be called "After School".
Save to add a completed schedule to the list below.
Click the **Edit** icon to change an existing schedule.
Click the **Delete** icon to permanently delete a schedule.

Status

Device Info

This page displays the current LAN and wireless LAN information for the DAP-1260L.

General: Displays the access point's time and firmware version.

LAN: Displays the MAC address and the private (local) IP settings for the access point.

Wireless LAN: Displays the wireless MAC address and your wireless settings such as SSID and Channel.

The screenshot shows the D-Link DAP-1360L Router Status page. The page is divided into several sections: a top navigation bar with 'D-Link' logo and tabs for 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. Below the navigation bar is a sidebar with 'DEVICE INFO' selected, and other options like 'LOGS', 'STATISTICS', and 'WIRELESS'. The main content area is titled 'DEVICE INFORMATION' and contains three sections: 'GENERAL', 'LAN', and 'WAN'. The 'GENERAL' section shows the time as 9/4/2012 8:0:41, firmware version 1.00, and mydlink service/account status. The 'LAN' section shows MAC address CC:B2:55:CC:8B:8A, connection type Static IP / DHCP server, IP address 192.168.0.50, subnet mask 255.255.255.0, and default gateway 192.168.0.50. The 'WAN' section shows MAC address CC:B2:55:CC:8B:8A, connection type Getting IP from DHCP server, IP address 0.0.0.0, subnet mask 0.0.0.0, and default gateway 0.0.0.0. On the right side, there is a 'Helpful Hints..' section with 'Device Information:', 'LAN:', and 'WAN:' descriptions.

| DAP-1360L // Router | SETUP | ADVANCED | MAINTENANCE | STATUS | HELP |
|---|--|----------|-------------|--------|---|
| DEVICE INFO LOGS STATISTICS WIRELESS | DEVICE INFORMATION : All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here. | | | | Helpful Hints.. Device Information: This page displays the current information of the DAP-1360L. The page will show the firmware currently loaded, wired and wireless settings applied on the unit. LAN: The MAC address of the Ethernet LAN connection, Connection Type being used (DHCP or Static), Subnet Mask and Default Gateway are displayed in this section. WAN: The MAC address of the WAN connection, Connection Type being used (DHCP, Static, PPPoE or PPTP), Subnet Mask and Default Gateway are displayed in this section. WIRELESS LAN: The Wireless MAC address, Wireless Network Name (SSID), Wireless Channel and Wireless Security Type are displayed in this section. |
| | GENERAL Time : 9/4/2012 8:0:41 Firmware Version : 1.00 , Tue, 04, Sep, 2012 mydlink Service : Non-Registered mydlink Account : NONE | | | | |
| | LAN MAC Address : CC:B2:55:CC:8B:8A Connection : Static IP / DHCP server IP Address : 192.168.0.50 Subnet Mask : 255.255.255.0 Default Gateway : 192.168.0.50 | | | | |
| | WAN MAC Address : CC:B2:55:CC:8B:8A Connection : Getting IP from DHCP server... IP Address : 0.0.0.0 Subnet Mask : 0.0.0.0 Default Gateway : 0.0.0.0 Primary DNS Server : Secondary DNS Server : | | | | |

Logs

The DAP-1260L keeps a running log of events and activities occurring on the AP. If the AP is rebooted, the logs are automatically cleared. You can save the log files under Log Setting.

Log Options: There are several types of logs that can be viewed: **System Activity, Debug Information, Attacks, Dropped Packets** and **Notice**.

First Page: This button directs you to the first page of the log.

Last Page: This button directs you to the last page of the log.

Previous Page: This button directs you to the previous page of the log.

Next Page: This button directs you to the next page of the log.

Clear Log: This button clears all current log content.

Log Settings: This button opens a new menu where you can configure the log settings.

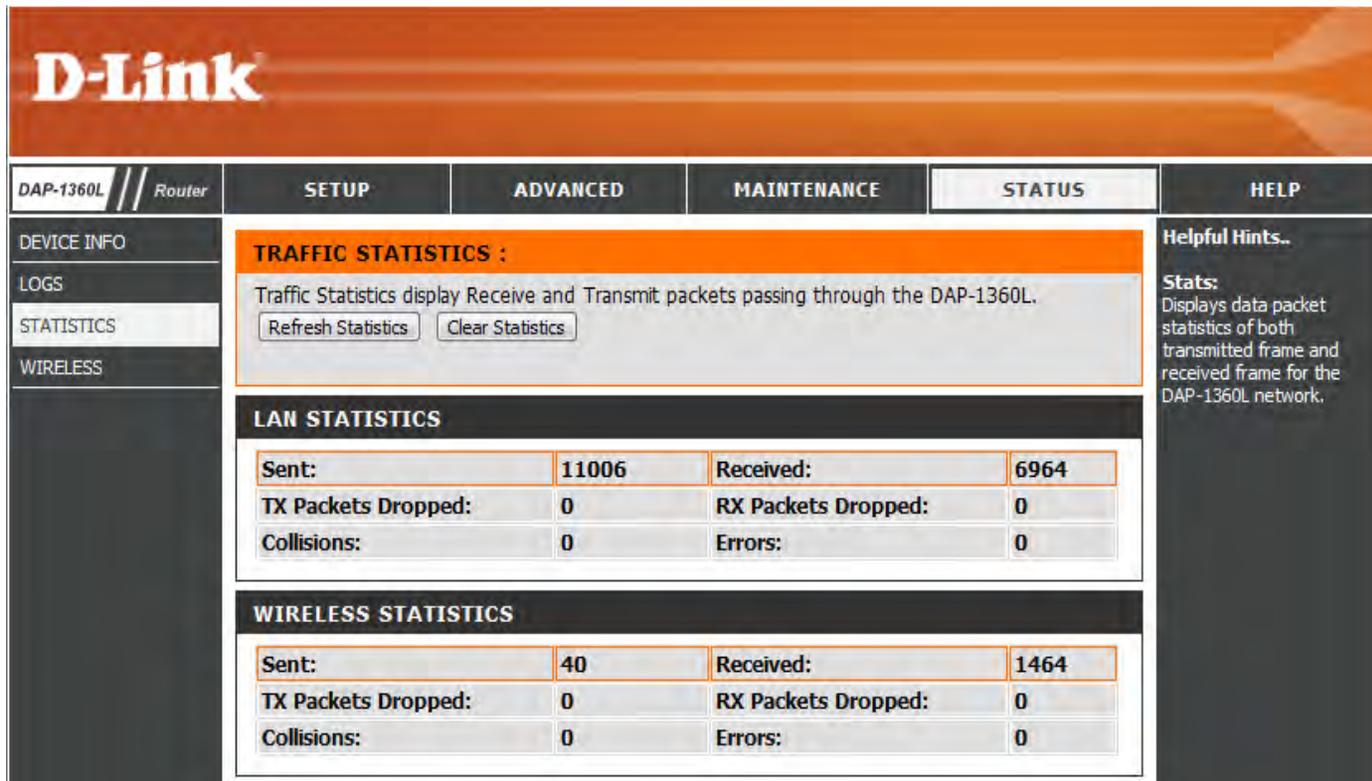
Refresh: This button refreshes the log.

The screenshot shows the D-Link web interface for a DAP-1360L Router. The main content area is titled 'VIEW LOG : View Log displays the activities occurring on the DAP-1360L.' Below this is the 'LOG OPTIONS' section, which includes checkboxes for 'System Activity' (checked), 'Debug Information' (unchecked), 'Attacks' (checked), and 'Dropped Packets' (unchecked). There is also a checkbox for 'Enable Logging To Syslog Server' (unchecked) and a text input field for 'Syslog Server IP Address' with the value '0.0.0.0'. Below the options is the 'LOG DETAILS' section, which includes navigation buttons (First Page, Last Page, Previous Page, Next Page, Clear Log, Save log, Refresh) and a table of log entries.

| Time | Message |
|----------------|---|
| Sep 4 15:31:32 | BusyBox v1.13.4 |
| Sep 4 15:31:32 | (order: 1, 8192 bytes) |
| Sep 4 15:31:32 | Memory: 25620k/32768k available (3017k kernel code, 7148k reserved, 544k data, 112k init, 0k highmem) |
| Sep 4 15:31:32 | Calibrating delay loop... 389.12 BogoMIPS (lpj=1945600) |
| Sep 4 15:31:32 | Mount-cache hash table entries: 512 |
| Sep 4 15:31:32 | net_namespace: 1004 bytes |
| Sep 4 15:31:32 | NET: Registered protocol family 16 |
| Sep 4 15:31:32 | bio: create slab at 0 |

Statistics

The DAP-1260L keeps statistics of the traffic that passes through it. You can view the amount of packets that pass through the LAN and wireless portions of the network. The traffic counter will reset if the access point is rebooted.



D-Link

DAP-1360L // Router

SETUP ADVANCED MAINTENANCE **STATUS** HELP

DEVICE INFO
LOGS
STATISTICS
WIRELESS

TRAFFIC STATISTICS :
Traffic Statistics display Receive and Transmit packets passing through the DAP-1360L.

LAN STATISTICS

| | | | |
|---------------------|-------|---------------------|------|
| Sent: | 11006 | Received: | 6964 |
| TX Packets Dropped: | 0 | RX Packets Dropped: | 0 |
| Collisions: | 0 | Errors: | 0 |

WIRELESS STATISTICS

| | | | |
|---------------------|----|---------------------|------|
| Sent: | 40 | Received: | 1464 |
| TX Packets Dropped: | 0 | RX Packets Dropped: | 0 |
| Collisions: | 0 | Errors: | 0 |

Helpful Hints..
Stats:
Displays data packet statistics of both transmitted frame and received frame for the DAP-1360L network.

Wireless

The wireless section allows you to view the wireless clients that are connected to your wireless access point.

Connection Time: Displays the amount of time the wireless client has been connected to the access point.

MAC Address: The Ethernet ID (MAC address) of the wireless client.

The screenshot shows the D-Link web interface for a DAP-1360L Router. The 'STATUS' tab is selected, and the 'WIRELESS' section is active. The main content area displays the following information:

CONNECTED WIRELESS CLIENT LIST :

The Wireless Client table below displays Wireless clients connected to the AP (Access Point). In AP Client mode it displays the connected AP's MAC address and connected Time.

| Connected Time | MAC Address |
|----------------|-------------|
| None | --- |

Helpful Hints..

Wireless
Displays connected client station main parameters, such as Connect Time and station MAC address. In AP Client mode it displays the connected AP's MAC address and connected Time.

IPv6

This page displays all your IPv6 Internet and network connection information. This feature is only available in AP mode.

The screenshot displays the D-Link web interface for the DAP-1260L in AP mode. The interface is divided into several sections:

- Header:** D-Link logo.
- Navigation:** DAP-1260L // AP, SETUP, ADVANCED, MAINTENANCE, STATUS, HELP.
- Left Sidebar:** DEVICE INFO, LOGS, STATISTICS, WIRELESS, IPv6 (selected).
- Main Content Area:**
 - IPv6 NETWORK INFORMATION :** All of your IPv6 Internet and network connection details are displayed on this page.
 - IPv6 CONNECTION INFORMATION**
 - IPv6 Connection Type : Link-Local Only
 - LAN IPv6 Address : none
 - IPv6 Default Gateway : none
 - LAN IPv6 Link-Local Address : fe80::ceb2:55ff:fec8:8b8a/64
 - Primary DNS Address : none
 - Secondary DNS Address : none
- Right Sidebar:** Helpful Hints.. All of your WAN and LAN connection details are displayed here.

Help

The screenshot shows the D-Link web interface for the DAP-1360L Repeater. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The HELP tab is selected, displaying a 'HELP MENU' with links to various sections: Setup (Wizard, Wireless Setup, LAN Setup), Advanced (Port Forwarding, Port Filter, MAC Address Filter, DMZ, Parental Control, Advanced Wireless, Advanced Network, Wi-Fi Protected Setup, User Limit), Maintenance (Device Administration, Save and Restore, Firmware Update, WatchDog, Time, Schedules, System check), and Status (Device Info, Log, Statistics, Wireless). A 'Helpful Hints..' section on the right advises clicking on links for more information.

| D-Link | | | | | |
|-----------------------|---|----------|-------------|--------|--|
| DAP-1360L // Repeater | SETUP | ADVANCED | MAINTENANCE | STATUS | HELP |
| MENU | HELP MENU Setup <ul style="list-style-type: none">• Wizard• Wireless Setup• LAN Setup Advanced <ul style="list-style-type: none">• Port Forwarding• Port Filter• MAC Address Filter• DMZ• Parental Control• Advanced Wireless• Advanced Network• Wi-Fi Protected Setup• User Limit Maintenance <ul style="list-style-type: none">• Device Administration• Save and Restore• Firmware Update• WatchDog• Time• Schedules• System check Status <ul style="list-style-type: none">• Device Info• Log• Statistics• Wireless | | | | Helpful Hints.. <p>Click on the links for more informations of each section in the GUI.</p> |

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DAP-1260L offers the following types of security:

- WEP (Wired Equivalent Privacy)
- WPA-Personal (Wi-Fi Protected Access)
- WPA-Enterprise (Wi-Fi Protected Access)

What is WEP?

WEP, or Wired Equivalent Privacy, is a Wi-Fi security protocol that encrypts transmitted data. WEP is an older protocol that is not believed to be as effective anymore.

WEP uses a passphrase or key to authenticate your wireless connection. For 64-Bit WEP, the key is an alpha-numeric password that is 10 hex digits or an ASCII password consisting of 5 text characters. The hex digits are either numbers from 0 to 9 or letters from A to F. For 128-Bit WEP, the key is an alpha-numeric password that is 26 hex digits or an ASCII password with 13 text characters.

Configure WEP

It is recommended to enable encryption on your wireless access point before your wireless network adapters. Please establish wireless connectivity before enabling encryption. Your wireless signal may degrade when enabling encryption due to the added overhead.

1. Log into the web-based configuration by opening a web browser and entering the IP address of the access point (dlinkap.local). Click on **Setup** and then click **Wireless Setup** on the left side.
2. Next to *Security Mode*, select **WEP**.
Note: Choosing WEP means the device will only operate in Legacy wireless mode (802.11B/G) and will not provide 802.11N performance.
3. Next to *WEP Encryption*, select **64Bit(10 hex digits)**, **64Bit(5 ASCII characters)**, **128Bit(26 hex digits)** or **128Bit(13 ASCII characters)**.
4. Next to *WEP Key 1*, enter a set of digits or letters from A to F, or a string of text.
5. Next to *Authentication*, select **Both** or **Shared Key**.
6. Click **Save Settings** at the top of the window to save your settings. If you are configuring the access point with a wireless adapter, you will lose connectivity until you enable WPA-PSK on your adapter and enter the same passphrase as you did on the access point.

WIRELESS SECURITY MODE :

Security Mode :

WEP :

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

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

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

WEP Encryption :

WEP Key 1 :

Authentication :

What is WPA?

WPA, or 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 bridge 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.

Configure WPA/WPA2 Personal

It is recommended to enable encryption on your wireless access point before your wireless network adapters. Please establish wireless connectivity before enabling encryption. Your wireless signal may degrade when enabling encryption due to the added overhead.

1. Log into the web-based configuration by opening a web browser and entering the IP address of the access point (dlinkap.local). Click on **Setup** and then click **Wireless Setup** on the left side.
2. Next to *Security Mode*, select **WPA-Personal**.
3. Next to *WPA Mode*, select **Auto(WPA or WPA2), WPA2 only, or WPA only**.
4. Next to *Cipher Type*, select **TKIP, AES, or TKIP and AES**.
5. Next to *Pre-Shared Key*, enter a key. The key is entered as a passphrase in ASCII format at both ends of the wireless connection. The passphrase must be between 8-63 characters.
6. Click **Save Settings** at the top of the window to save your settings. If you are configuring the access point with a wireless adapter, you will lose connectivity until you enable WPA-PSK on your adapter and enter the same passphrase as you did on the access point.

WIRELESS SECURITY MODE :

Security Mode :

WPA

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

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

WPA Mode :

Cipher Type :

PRE-SHARED KEY

Enter an 8 to 63 character alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.

Pre-Shared Key :

Configure WPA/WPA2 Enterprise

It is recommended to enable encryption on your wireless access point before your wireless network adapters. Please establish wireless connectivity before enabling encryption. Your wireless signal may degrade when enabling encryption due to the added overhead.

1. Log into the web-based configuration by opening a web browser and entering the IP address of the access point (dlinkap.local). Click on **Setup** and then click **Wireless Setup** on the left side.
2. Next to *Security Mode*, select **WPA-Enterprise**.
3. Next to *WPA Mode*, select **Auto(WPA or WPA2), WPA2 only, or WPA only**.
4. Next to *Cipher Mode*, select **TKIP, AES, or Auto**.
5. Next to *RADIUS Server IP Address*, enter the IP Address of your RADIUS server.
6. Next to *RADIUS Server Port*, enter the port you are using with your RADIUS server. 1812 is the default port.
7. Next to *RADIUS Server Shared Secret*, enter the security key.
8. Click **Advanced** to enter settings for a secondary RADIUS Server.
9. Click **Save Settings** to save your settings.

WIRELESS SECURITY MODE :

Security Mode :

WPA

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

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

WPA Mode :

Cipher Type :

EAP (802.1X)

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

RADIUS Server IP Address :

RADIUS Server Port :

RADIUS Server Shared Secret :

Optional backup RADIUS server

Second RADIUS server IP Address :

Second RADIUS Server Port :

Second RADIUS Server Shared Secret :

Connect to a Wireless Network Using 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 or Windows® 2000, 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.

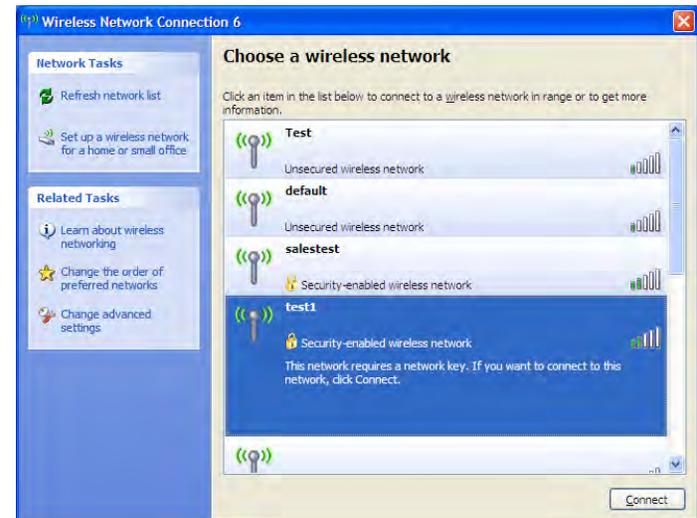
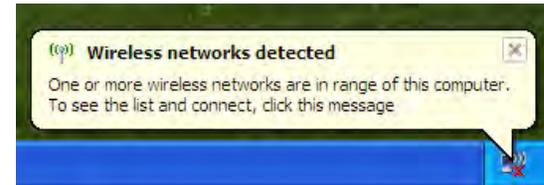
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

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 network (displayed using the SSID) and click the **Connect** button.

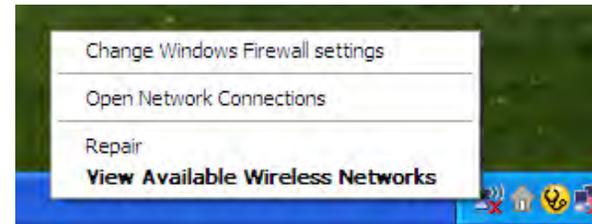
If you get a good signal, but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



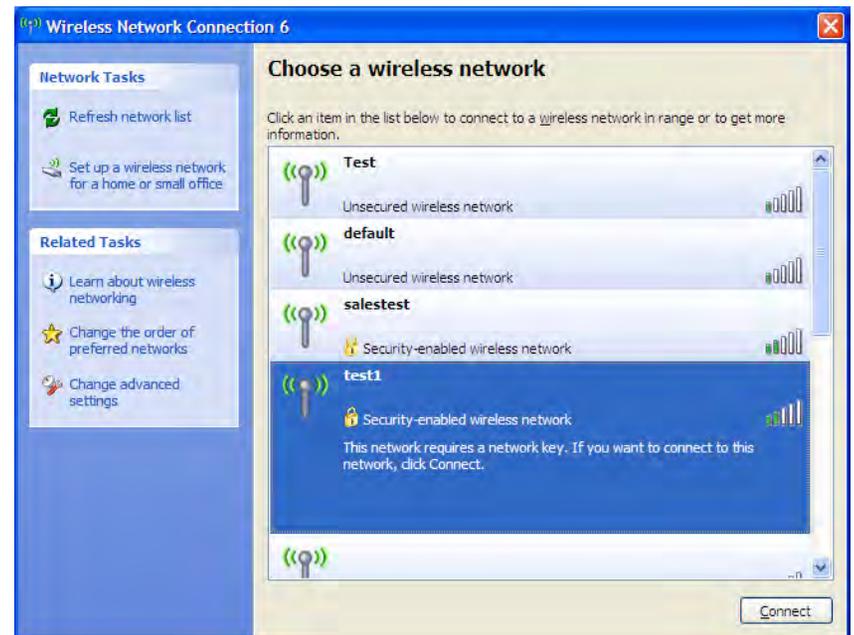
Configure WPA-PSK

It is recommended to enable WEP on your wireless bridge or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WEP 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**.

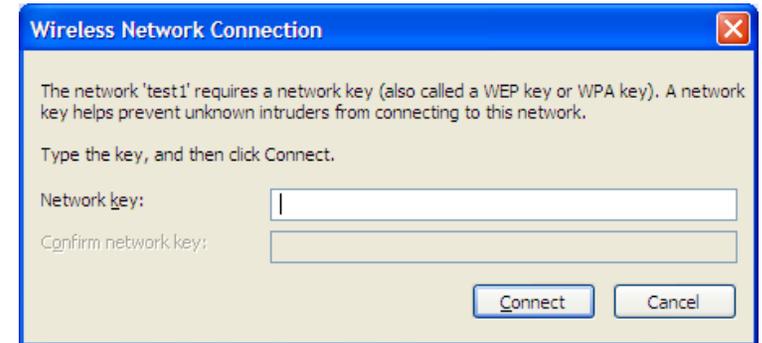


2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



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

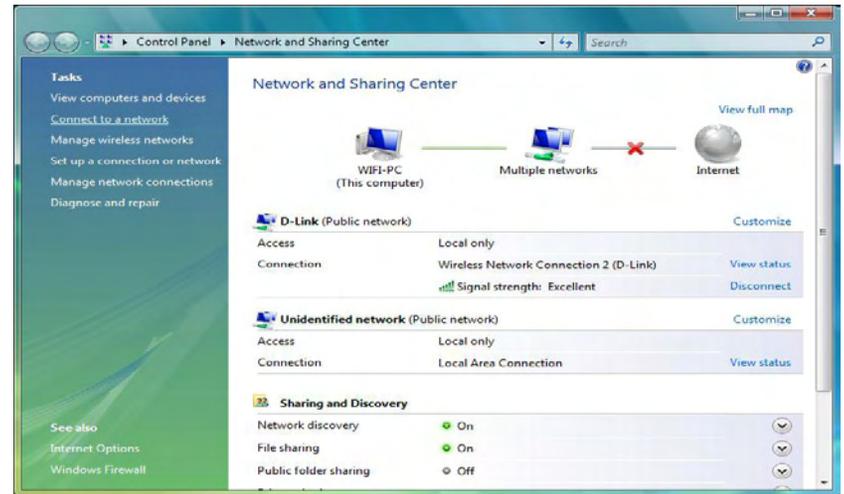
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the WPA-PSK settings are correct. The WPA-PSK passphrase must be exactly the same as on the wireless access point.



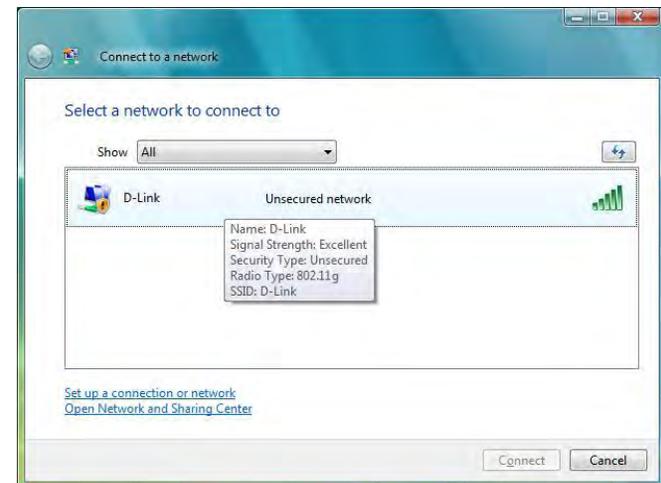
Using Windows Vista®

Windows Vista® users may use the convenient, built-in wireless utility. Follow these instructions:

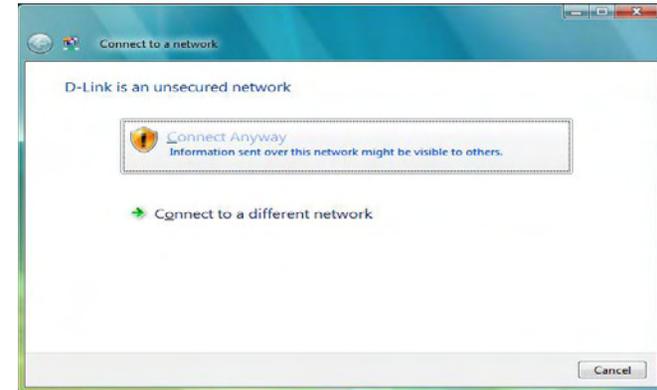
From the Start menu, go to Control Panel, and then click on **Network and Sharing Center**.



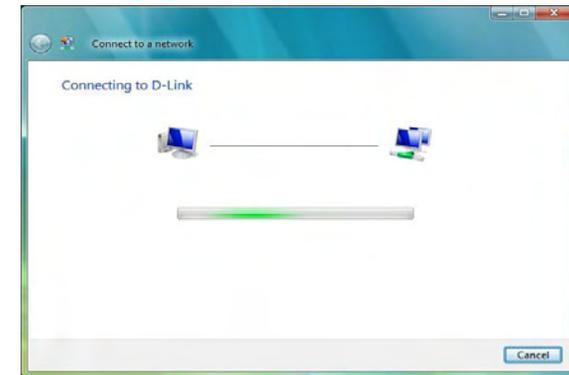
The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) under Select a network to connect to and then click the **Connect** button.



Click **Connect Anyway** to continue.

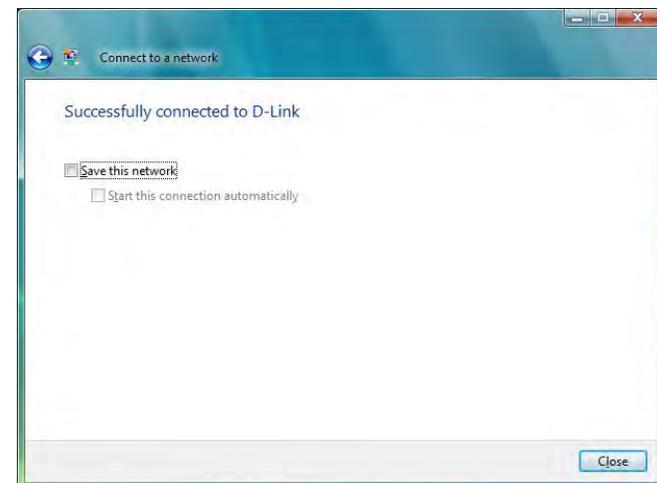


The utility will display the following window to indicate a connection is being made.



The final window indicates the establishment of a successful connection.

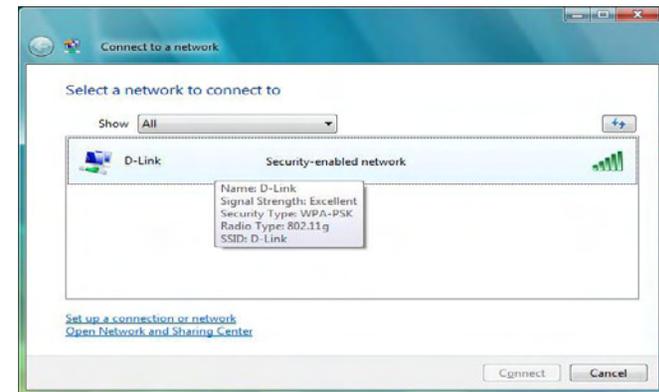
The next two pages display the windows used to connect to either a WEP or a WPA-PSK wireless network.



Configure WPA-PSK

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

Click on a network (displayed using the SSID) using WPA-PSK under Select a network to connect to and then click the **Connect** button.



Enter the appropriate security key or passphrase in the field provided and then click the **Connect** button.



Using Windows® 7

It is recommended to 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.

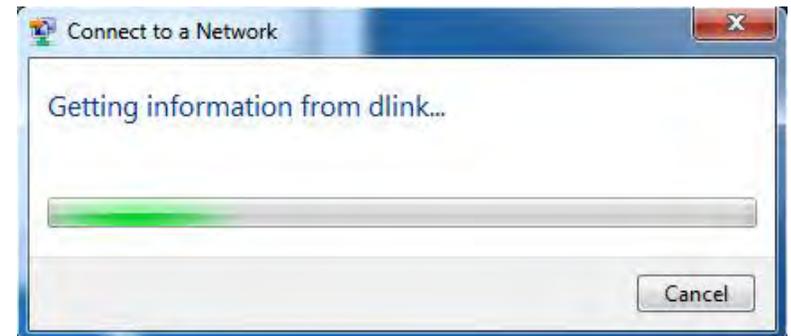


3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

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 that is on your router and click **Connect**. You can also connect by pushing the WPS button on the router.

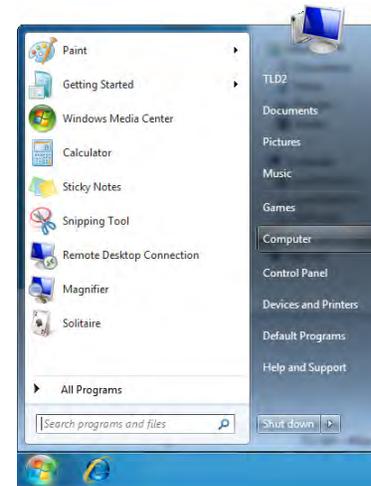
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



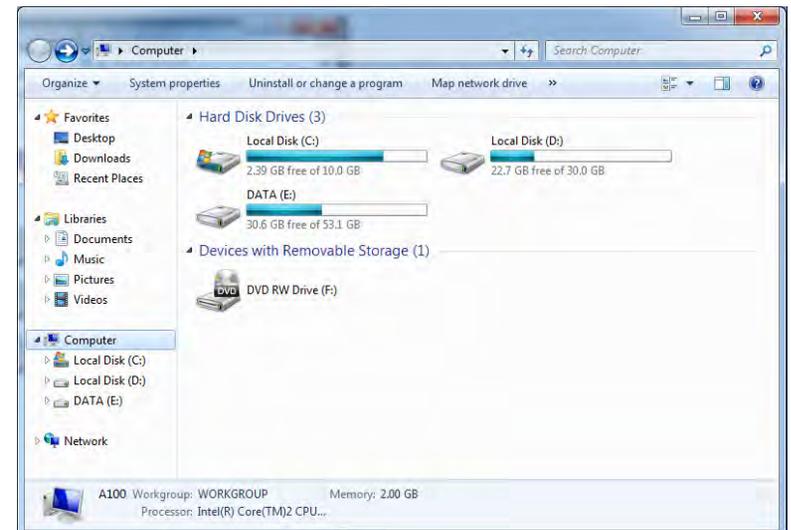
Configure WPS

The WPS feature of the DAP-1260L can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature of the DAP-1260L:

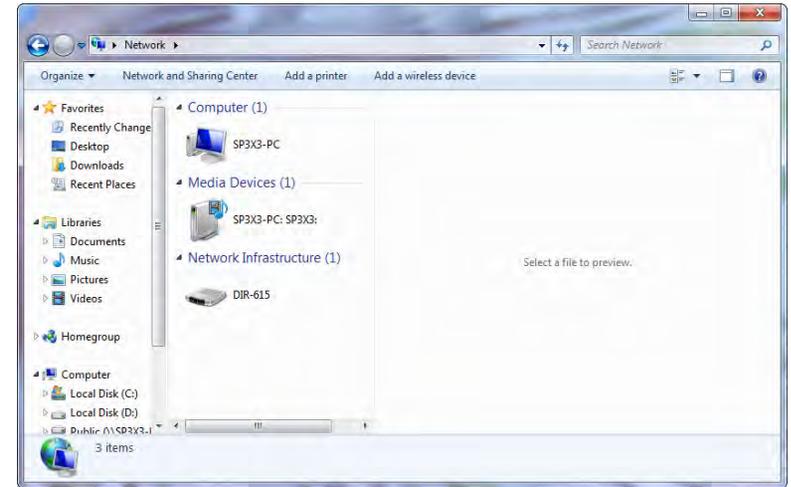
1. Click the **Start** button and select **Computer** from the Start menu.



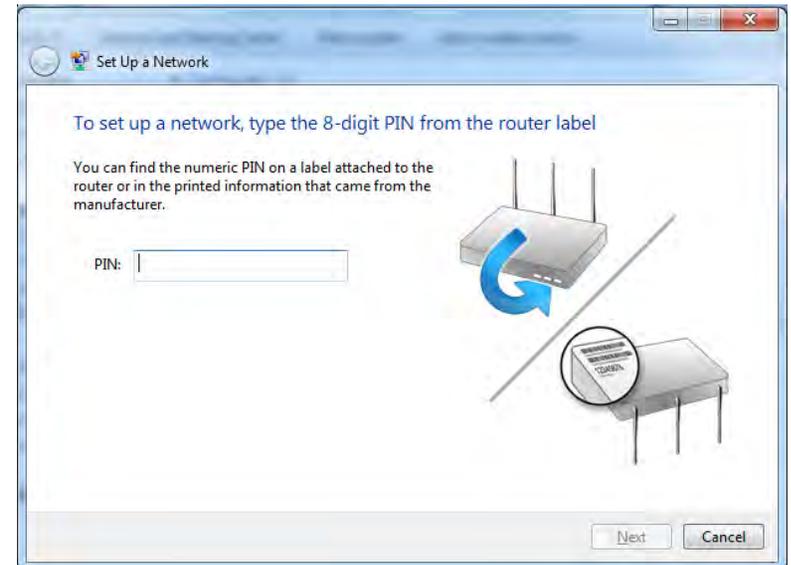
2. Click the **Network** option.



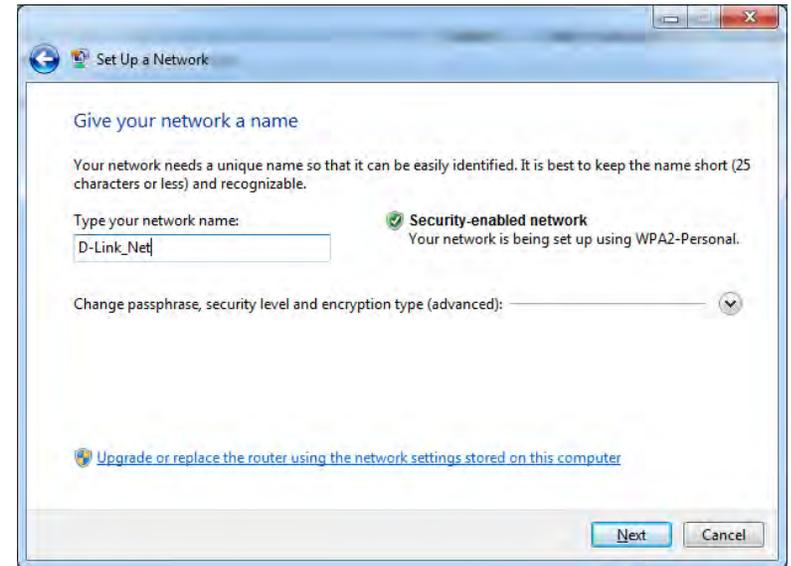
3. Double-click the DAP-1260L.



4. Input the WPS PIN number (displayed in the WPS window on the Router's LCD screen or in the **Setup** > **Wireless Setup** menu in the Router's Web UI) and click **Next**.

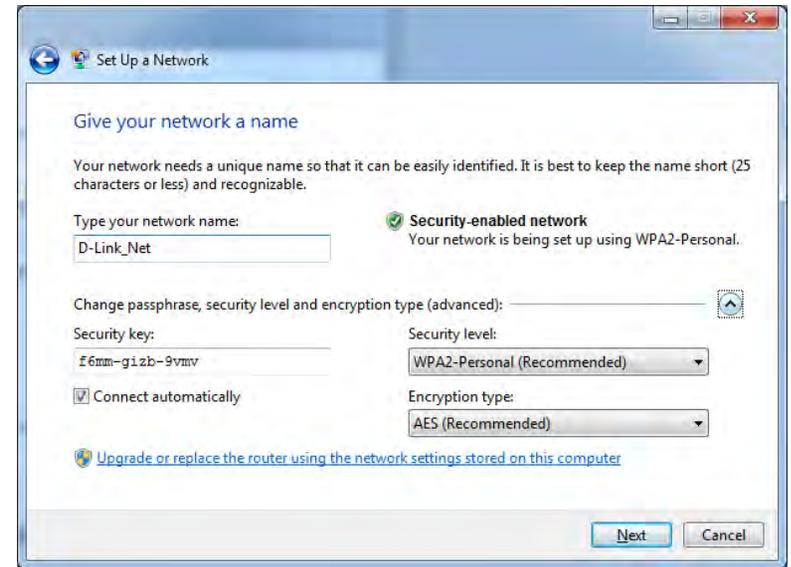


5. Type a name to identify the network.



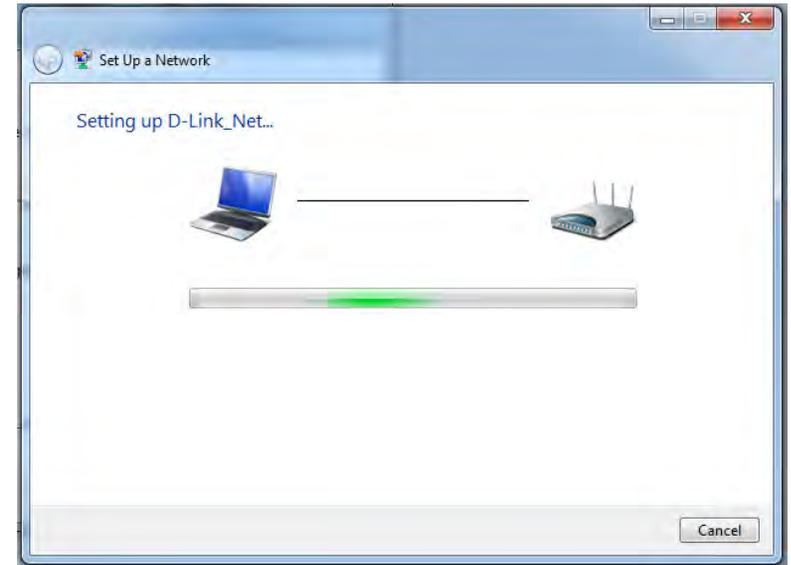
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



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

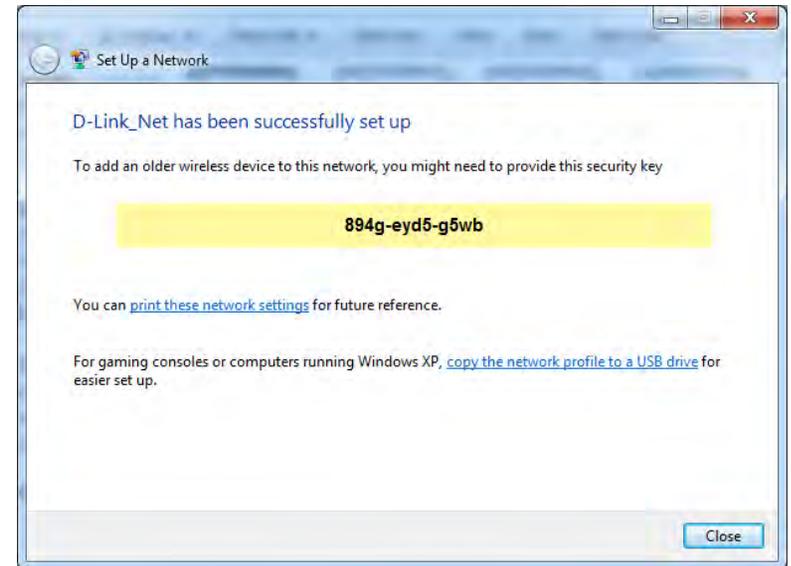
Wait for the configuration to complete.



8. The following window informs you that WPS on the DAP-1260L has been setup 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.



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DAP-1260L. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.)

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

When entering the IP address of the D-Link access point (**dlinkapwxyz.local** for example, with **wxyz** the last four digits of the AP's MAC Address), you are not connecting to a website on the Internet or have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Microsoft Internet Explorer® 7 and higher
 - Mozilla Firefox 12.0 and higher
 - Google™ Chrome 20.0 and higher
 - Apple Safari 4 and 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 access point in the address bar. This should open the login page for your the web management.
- If you still cannot access the configuration, unplug the power to the access point 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 access point. Unfortunately this process will change all your settings back to the factory defaults.

To reset the access point, locate the reset button (hole) on the rear panel of the unit. With the access point powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the access point will go through its reboot process. Wait about 30 seconds to access the access point. The default IP address is 192.168.0.50. When logging in, the username is Admin and leave the password box empty.

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

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).

Note: AOL DSL+ users must use MTU of 1400.

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, and XP users type in cmd) and press **Enter** (or click **OK**).
- Once the window opens, you'll need to do a special ping. Use the following syntax:

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

Example: **ping yahoo.com -f -l 1472**

```
C:\>ping yahoo.com -f -l 1482
Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:
Packet needs to be fragmented but DF set.
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping yahoo.com -f -l 1472
Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:
Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=125ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 93ms, Maximum = 203ms, Average = 132ms
C:\>
```

You should start at 1472 and work your way down by 10 each time. Once you get a reply, go up by 2 until you get a fragmented packet. Take that value and add 28 to the value to account for the various TCP/IP headers. For example, 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 access point with the proper MTU size.

To change the MTU rate on your access point follow the steps below:

- Open your browser, enter the IP address of your access point (192.168.0.50) 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 to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

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

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

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

How does wireless work?

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

Wireless Local Area Network (WLAN)

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

Wireless Personal Area Network (WPAN)

Bluetooth is the industry standard wireless technology used for WPAN. Bluetooth devices in WPAN operate in a range up to 30 feet away.

Compared to WLAN the speed and wireless operation range are both less than WLAN, but in return it doesn't use nearly as much power which makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries.

Who uses wireless?

Wireless technology 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

- 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

- 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 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 access point or Access Point

Make sure you place the bridge/access point in a centralized location within your network for the best performance. Try to place the bridge/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, wireless speakers, and televisions as far away as possible from the bridge/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 access point. Refer to product manual for detail information on how to set it up.

Wireless Modes

There are basically two modes of networking:

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

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

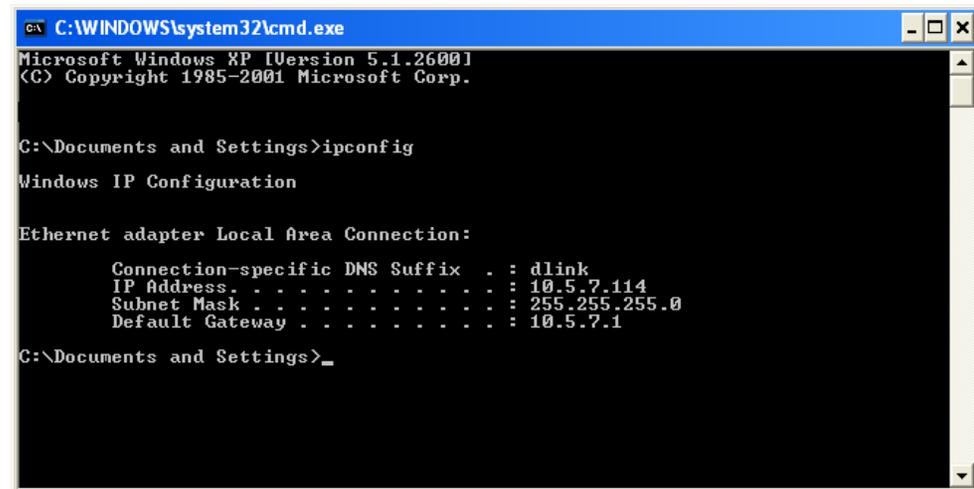
After you install your adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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 5.1.2600.1
(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 > Change Adapter Setting.**

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

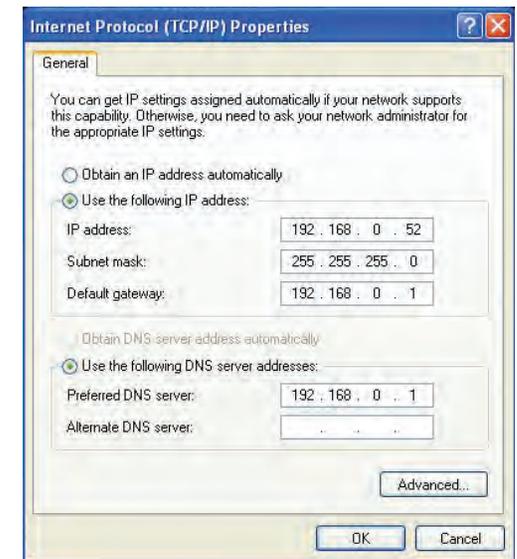
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

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 Default Gateway the same as the LAN IP address of your router (192.168.0.1).

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

Step 5

Click **OK** twice to save your settings.



Technical Specifications

Standards

- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.3
- IEEE 802.3u

Security

- WPA-Personal
- WPA2-Personal
- WPA-Enterprise
- WPA2-Enterprise

Wireless Signal Rates¹

- 300Mbps
- 54Mbps
- 36Mbps
- 18Mbps
- 11Mbps
- 6Mbps
- 2Mbps
- 108Mbps
- 48Mbps
- 24Mbps
- 12Mbps
- 9Mbps
- 5.5Mbps
- 1Mbps

Maximum Power Input

- 5V 1A

Maximum Power Consumption

- 5 W

Frequency Range²

- 2.4GHz to 2.4835GHz

LEDs

- Power
- Security
- Wireless
- LAN

Operating Temperature

- 0°F to 40°F (32°C to 104°C)

Humidity

- Operating: 0 to 90% (non-condensing)
- Storage: 5 to 95% (non-condensing)

Safety & Emissions

- FCC
- CE
- IC
- C-Tick

Dimensions

- 147 (W) x 108 (D) x 27.8 (H) mm (5.78 x 4.28 x 1.09 inches)

¹Maximum wireless signal rate derived from IEEE Standard 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.

²Range varies depending on country's regulation.

Contacting Technical Support

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

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

- Model number of the product (e.g. DAP-1260L)
- Hardware Revision (located on the label on the bottom of the access point (e.g. rev B1))
- Serial Number (s/n number located on the label on the bottom of the access point).

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

For customers within the United States:

Phone Support:

(877) 453-5465

Internet Support:

<http://support.dlink.com>

For customers within Canada:

Phone Support:

(800) 361-5265

Internet Support:

<http://support.dlink.ca>

Warranty

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

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

Limited Warranty:

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

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

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

Limited Software Warranty:

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

Non-Applicability of Warranty:

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

Submitting A Claim (USA):

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

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow DLink to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-453-5465, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization (“RMA”) number by completing the RMA form and entering the assigned Case ID Number at <https://rma.dlink.com/>.

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

Submitting A Claim (Canada):

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

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

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

What Is Not Covered:

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

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

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

Disclaimer of Other Warranties:

EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED “AS-IS” WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO THE DURATION OF THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

Limitation of Liability:

TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NONCONFORMING PRODUCT. THE MAXIMUM LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT COVERED BY THE WARRANTY. THE FOREGOING EXPRESS WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES, EXPRESS, IMPLIED OR STATUTORY.

Governing Law:

This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This Limited Warranty provides specific legal rights and you may also have other rights which vary from state to state.

Trademarks:

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CE Mark Warning:

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

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.

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 20cm between the radiator & your body.

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

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

Industry Canada Statement

This device complies with RSS-210 of the Industry Canada 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.

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device has been designed to operate with an antenna having a maximum gain of [2] dB. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter (IC: 4216A-AP1360C1 / Model: DAP-1260LC1) 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.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

NOTE IMPORTANTE:

Déclaration d'exposition aux radiations:

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 20 cm de distance entre la source de rayonnement et votre corps.

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de dB [2]. Une antenne à gain plus élevé est strictement interdite par les règlements d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent émetteur radio (IC: 4216A-AP1360C1 / Model: DAP-1260LC1) 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.

Antenna information: dipole / 2dBi (Brand:D-Link / Manufacturer :WHA YU)

Registration

Register your product online at registration.dlink.com



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

Version 1.0
October 25, 2012