



User Manual

N300 Wi-Fi Range Extender

Preface

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

Manual Revisions

| Revision | Date | Description |
|----------|------------------|-------------------|
| 1.00 | August 5th, 2015 | • Initial release |

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All rights reserved. This publication may not be reproduced, in whole or in part, without prior expressed written permission from D-Link Systems, Inc. This purpose of this product is to create a constant network connection for your devices. As such, it does not have a standby mode or use a power management mode. If you wish to power down this product, please simply unplug it from the power outlet.

Power Usage

This device is an Energy Related Product (ErP) with High Network Availability (HiNA), and automatically switches to a power-saving Network Standby mode within 1 minute of no packets being transmitted. If it is not needed during certain periods of time, it can be unplugged to save energy.

Network Standby: 1.2 watts

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Introduction

Package Contents



DAP-1330 N300 Wi-Fi Range Extender



Wi-Fi Configuration Card

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

System Requirements

| | |
|---|--|
| Network Requirements | <ul style="list-style-type: none">• A wireless router with an active Internet connection.• IEEE 802.11n, 802.11g, or 802.11b wireless clients/devices |
| Web-based Configuration Utility Requirements | <p>Computer or Mobile Device with the following:</p> <ul style="list-style-type: none">• A Windows®, Macintosh, Android, or Linux-based operating system• Wireless adapter or Wi-Fi functionality <p>Browser Requirements:</p> <ul style="list-style-type: none">• Internet Explorer 7 or later• Firefox 12.0 or later• Safari 4 or later• Google Chrome 20.0 or later |

Introduction

Features

Easily Extend Your Existing Network

The DAP-1330 N300 Wi-Fi Range Extender lets you extend a secure wireless network throughout your home. Connect the DAP-1330 to a router and share your high-speed Internet access in more places throughout your home or small office.

High-speed Wireless Performance With Wireless N Technology

Thanks to the latest Wireless N technology, the DAP-1330 provides a wireless connection at up to 300 Mbps* with other 802.11n wireless devices. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio with smooth performance.

Simple Setup

Through its easy-to-use web-based user interface, you can quickly and easily connect the DAP-1330 to an uplink router, configure the extender wireless network, and manage the administrative settings. The setup wizard will even guide you through the setup process, getting your extended wireless network up and running in no time.

Compatibility

The DAP-1330 is still fully compatible with the IEEE 802.11g/b standards, so it can still connect with your older 802.11g/b devices.

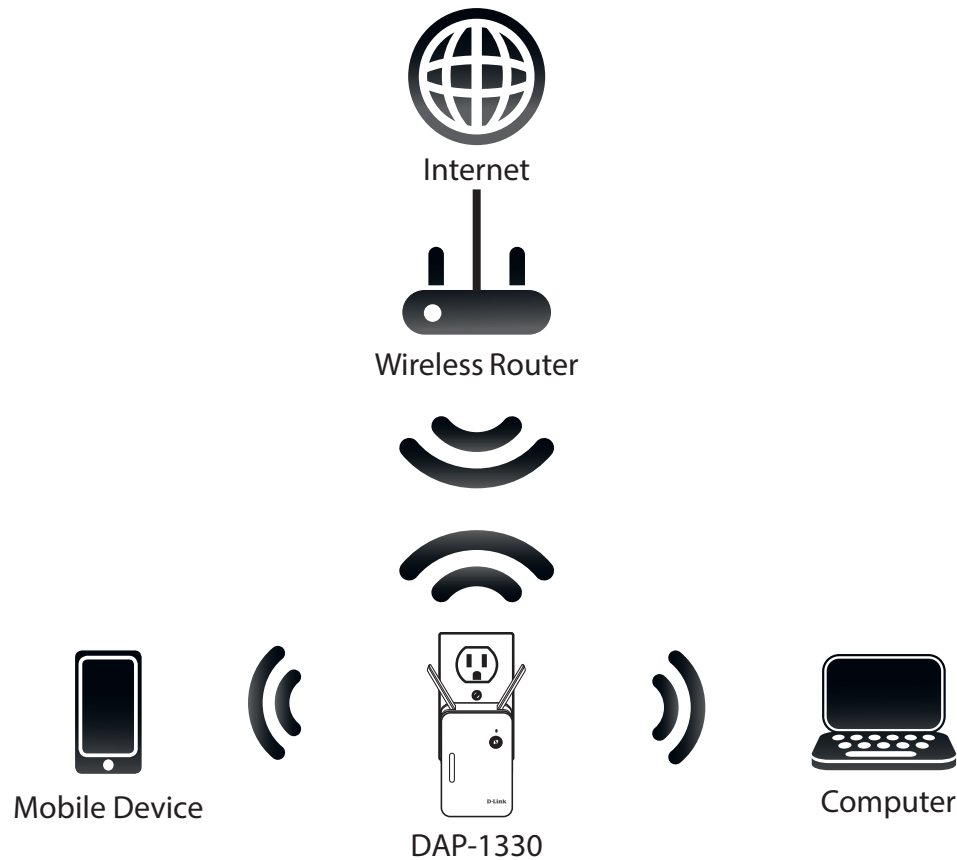
Latest Wireless Network Security and Encryption

The DAP-1330 supports wireless security features to prevent unauthorized access, be it from over the wireless network or from the Internet. Support for WPA/WPA2 standards ensure that you'll be able to use the best possible encryption methods with your compatible wireless devices.

* Maximum wireless signal rate derived from IEEE Standard 802.11n and 802.11g 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.

What is a Wireless Extender?

The DAP-1330 acts as a repeater to extend the range of an existing wireless network to provide better signal for parts of your home or office that may have poor or no reception. Your existing wireless signal will be re-broadcast by the DAP-1330, allowing you to reach the farthest corners of your home or office. The extended network can simply use the same network credentials as the existing network, or you can specify a different network name and password, giving you the flexibility to control network access.



Hardware Overview

Front/Top



| | | |
|----------|----------------------|--|
| 1 | LED Indicator | This indicates the current status of the DAP-1330, as detailed in the table below. |
|----------|----------------------|--|

| LED Indicator | Color | Status | Description |
|---------------|--------|-----------------|--|
| Power/Status | Green | Solid Green | Connection quality is good and device operating normally |
| | | Blinking Green | The device is processing WPS |
| | Red | Solid Red | Device is powering ON or system is defective |
| | Orange | Blinking Orange | Cannot connect or provision an IP address from the uplink router |
| | | Solid Orange | Connection quality is poor due to poor reception |
| | None | Off | Device is not receiving power. Check the power outlet |

| | | |
|----------|----------------|-------------------------------------|
| 2 | Antenna | This can only be used when extended |
|----------|----------------|-------------------------------------|

Hardware Overview

Side and Bottom



| | | |
|----------|--------------|--|
| 1 | WPS Button | Pressing the WPS button for 1 second allows you to connect with Wi-Fi clients using Wi-Fi Protected Setup. |
| 2 | Reset Button | Pressing the reset button will reset the DAP-1330 to the factory default settings. |

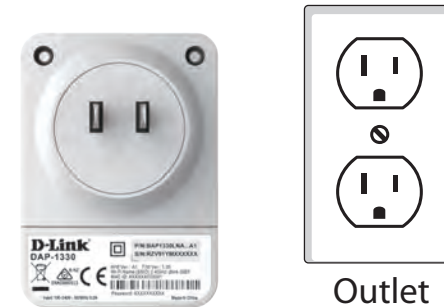
Wireless Installation Factors

The N300 Wi-Fi Range Extender lets you extend the reach of your existing wireless network, allowing you to work wirelessly from more places in your home or office. 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 extender and other network devices to a minimum - each wall or ceiling can reduce your adapter's range by up to 98 feet (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. At a 45-degree angle, a wall that is 0.5 meters thick (1.5 feet) appears to be almost 1 meter (3 feet) thick. At a 2-degree angle it can appear over 14 meters (45 feet) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete can degrade your wireless signal.
4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
5. If you are using 2.4 GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

Setting Up Your DAP-1330

Plug in the DAP-1330 to a power outlet. Verify that the power LED is blinking orange before continuing.



Locate the Wi-Fi name (SSID) and password for your DAP-1330 device. These details are printed on the specification sticker on the underside of the device.

Using your computer or mobile device's Wi-Fi connection utility, connect to the SSID of your DAP-1330 and enter the password. If you are unsure of how to connect to a wireless network, please refer to "Connect to a Wireless Network" on page 31, or consult your device's user manual. Once connected, you are ready to begin the setup process.



There are two ways to configure your DAP-1330; using the QRS Mobile app on your smartphone or tablet device, or using the web GUI on your computer.

For detailed information on either of the methods for configuring your DAP-1330, refer to the following sections of the manual:

- "QRS Mobile App Setup" on page 9
- "Web-based Configuration" on page 13

QRS Mobile App Setup

The DAP-1330 can be set up from your iOS or Android smartphone or tablet device using the QRS Mobile app.

Search for “QRS Mobile” in the App Store or Google Play, or use your mobile device to scan the QR codes on the right to download the QRS Mobile app from the App Store (left) for your iOS device, or from Google Play (right) for your Android device.



For iOS



For Android

Connect to the Wi-Fi network that is displayed on the Wi-Fi Configuration Card included in your package (ex: **dlink-a8fa**). Then, enter the Wi-Fi password also printed on the Wi-Fi Configuration Card (**akbdj1936**).



Once your mobile device is connected, tap on the **QRS Mobile** icon.



Click **Start** to continue.



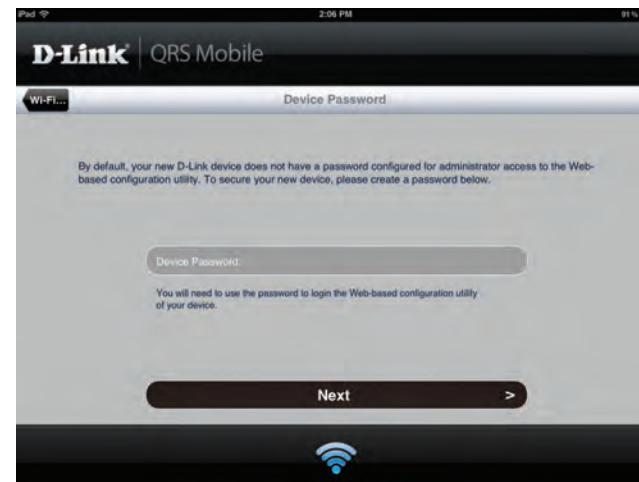
QRS Mobile will first detect your DAP-1330, then scan for available Wi-Fi networks. Select the network you wish to extend and enter the password if required.



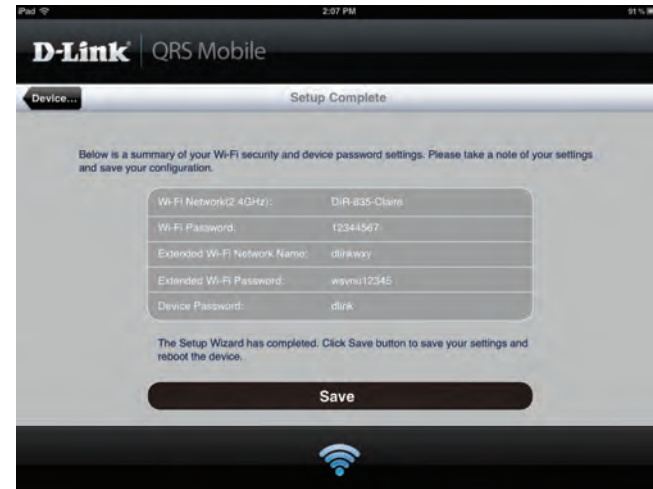
Enter a network name (SSID) and password for the extended Wi-Fi network. You may keep the existing SSID and password if you wish. Click **Next** to continue.



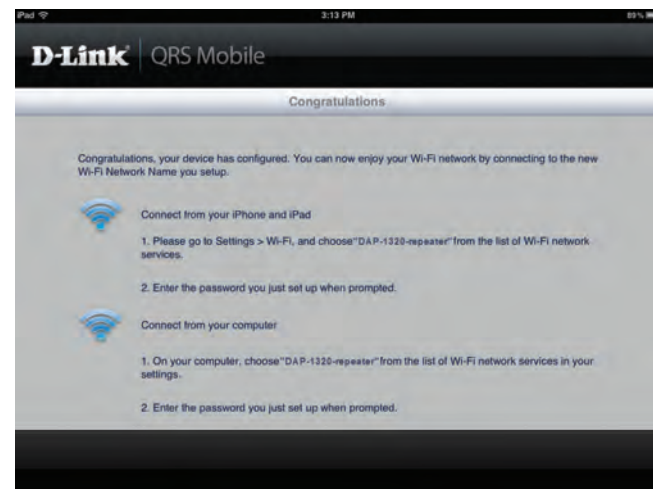
Create an admin password for the DAP-1330's Web-based configuration utility. Click **Next** to continue.



A summary of your settings will be displayed. Click **Save** to reboot the device and to complete the setup.



After the setup wizard is complete, the following screen will appear. You can now change your mobile device and laptop Wi-Fi settings to the wireless network name and password you just created.



Web-based Configuration

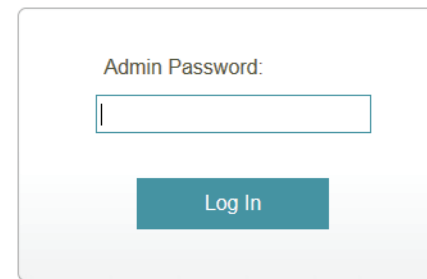
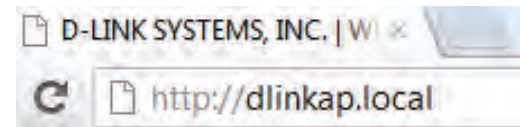
To access the configuration utility for the DAP-1330 on your PC, first connect to the DAP-1330 wirelessly using the Wi-Fi name (SSID) and password located on your Wi-Fi Configuration Card. Then open a web browser and enter **http://dlinkap.local** in the address bar. You can also use the IP address **http://192.168.0.50**.

Note: If you have multiple DAP-1330 devices on the network, you can access web-based configuration via **http://dlinkapxxxx.local**, as shown in the included Wi-Fi Configuration Card, with “xxxx” being the last four digits of the DAP-1330’s MAC address.

Enter your password. By default, Admin is selected as the username and cannot be changed, and by default, the password is blank.

The configuration interface will open, and you can configure the various settings for the DAP-1330. If you have not yet configured and uplink network, the home screen will show that there is no connection between the DAP-1330 and the uplink router.

For detailed information on manually setting up your DAP-1330 to extend an existing wireless network, refer to “Using the Manual Method” on page 17.



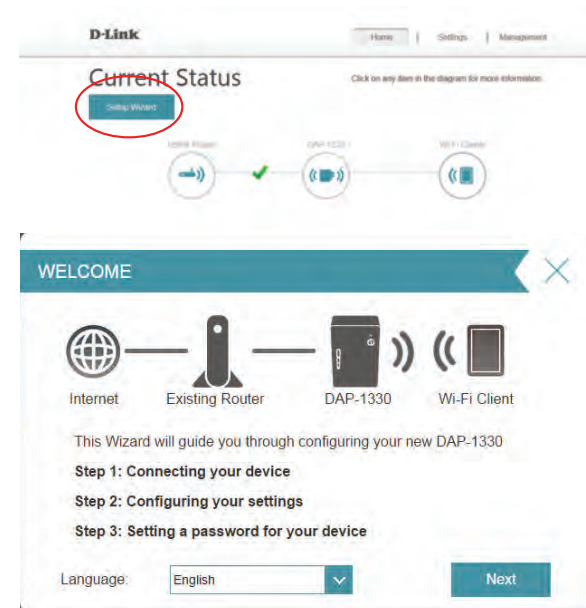
Setup Wizard

If you wish to configure your extender to connect to the Internet, please run the **setup wizard**.

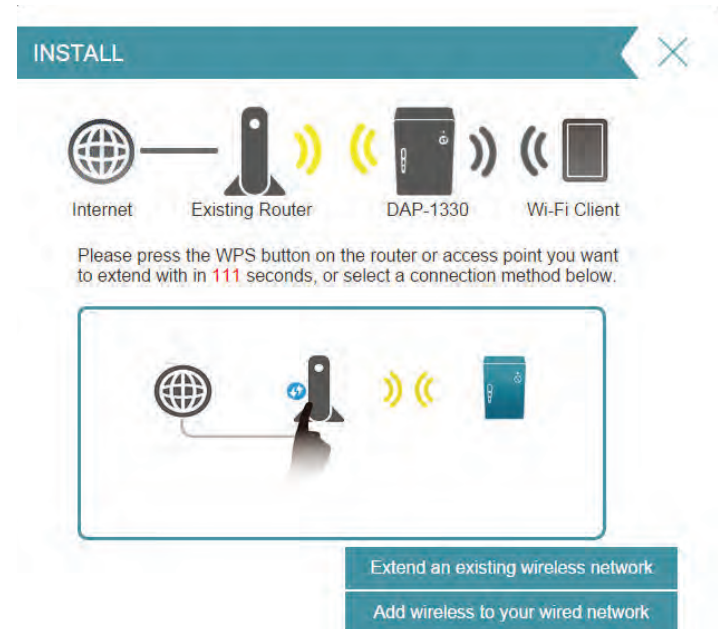
This wizard is designed to guide you through a step-by-step process to configure your new N300 Wi-Fi Range Extender to extend your wireless network and connect to the Internet.

Click **Next** to continue.

If you already have a Wi-Fi network set up and you want to configure your Wi-Fi network settings manually, go to **Settings** at the top of your browser window and select **Extender** from the drop-down menu to set up the connection between your DAP-1330 and the uplink router. To set up the extended Wi-Fi network, select **Extender**.



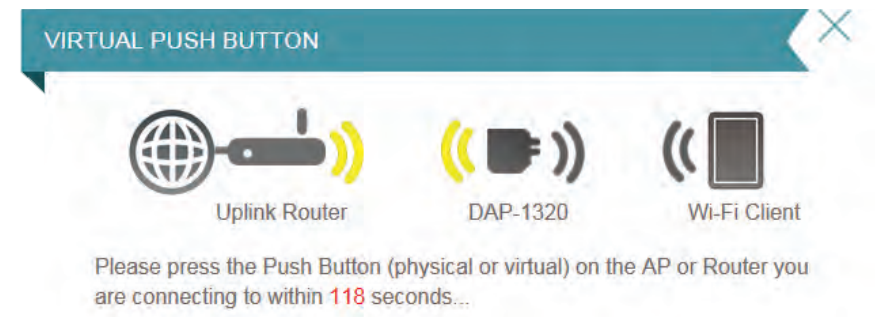
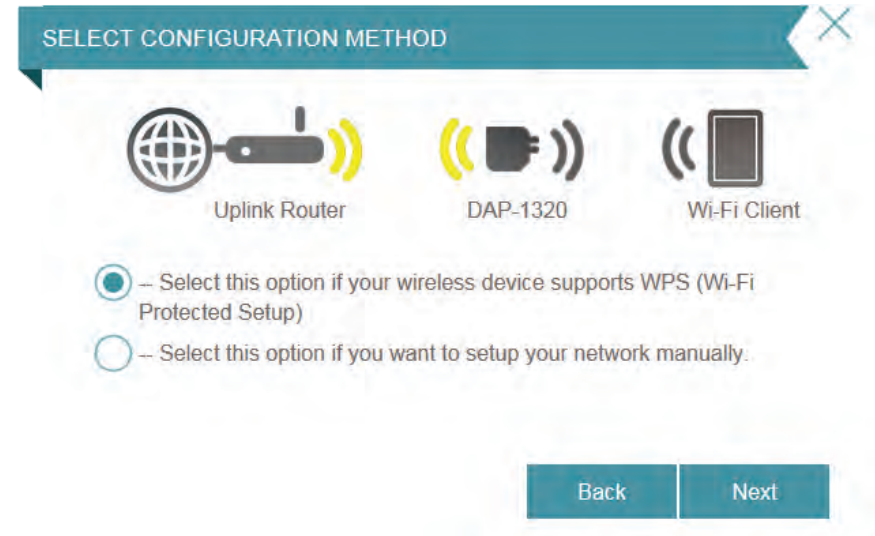
Select whether you want to use the WPS (Wireless Protected Setup) method or the manual method to set up an extended wireless network using your DAP-1330 or set up the access point mode.



Using the WPS Method

DAP-1330 will ask you to press the WPS push button on the access point or router you want to connect the DAP-1330 to. You have 120 seconds to press the button on your access point or router.

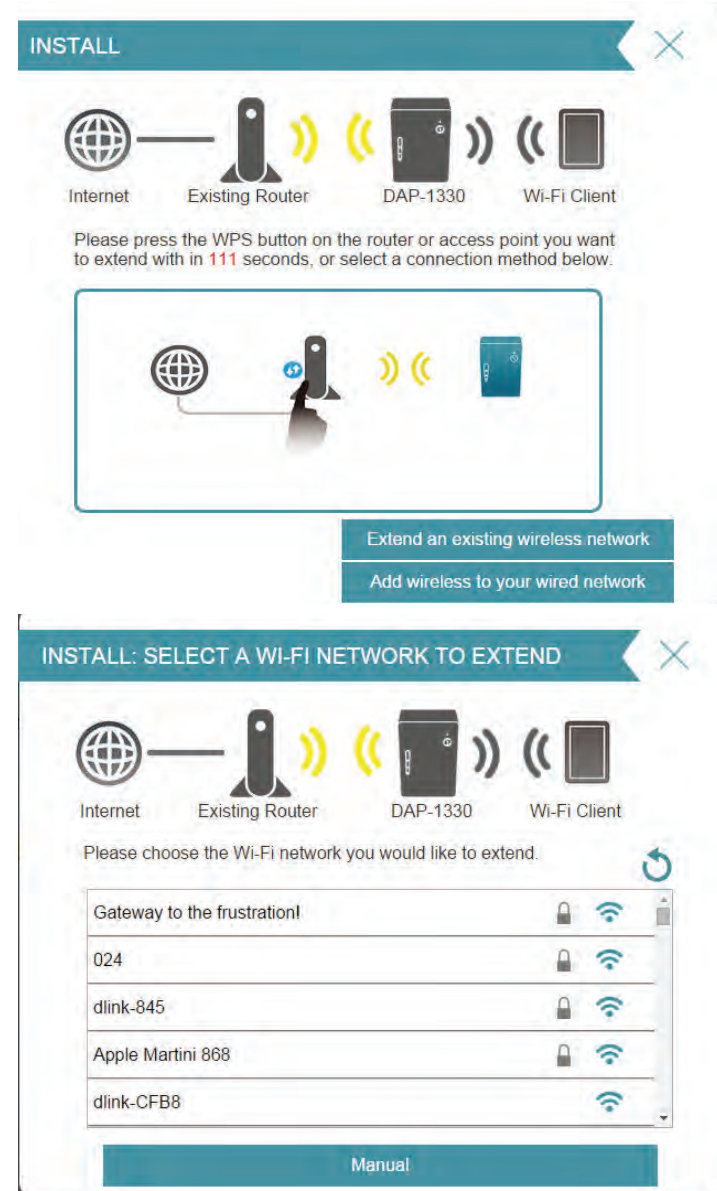
If a connection has been successfully made, the LED on the device will turn solid green.



Using the Manual Method

To set up your network manually, select the Extended an existing wireless network from the setup wizard menu.

The DAP-1330 will first scan for available Wi-Fi networks and list the networks it has found.

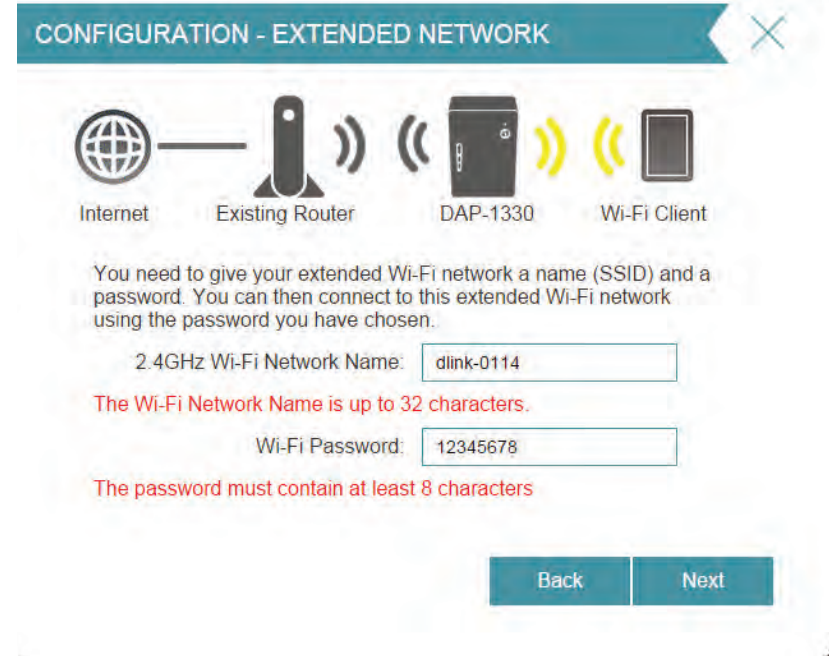
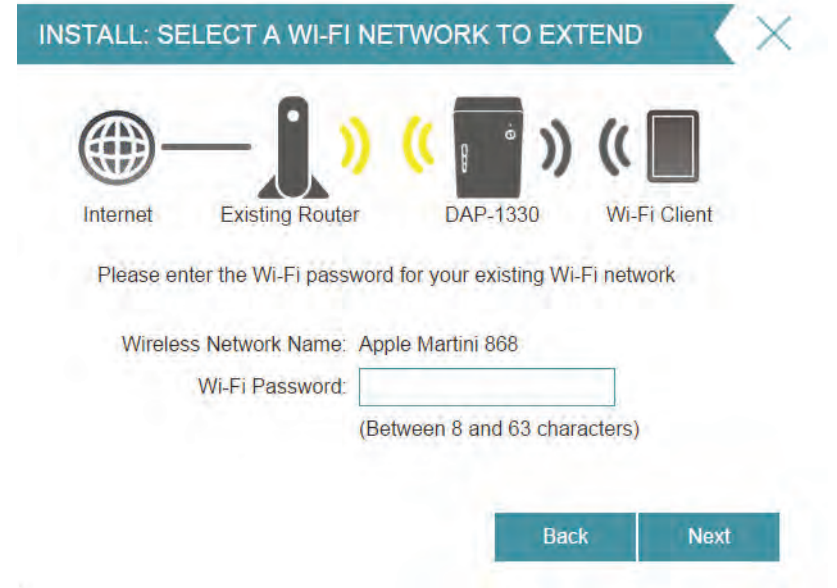


Enter the password for your uplink network.

Click **Next** to continue, or click **Back** to return to the previous step.

The DAP-1330 will re-broadcast the Wi-Fi connection from the uplink router as an extended Wi-Fi network. Enter the SSID and password that you wish to apply to the extended Wi-Fi network. If you would like the uplink router Wi-Fi network and the extended Wi-Fi network to have the same SSID and password, check the box at the bottom of the screen.

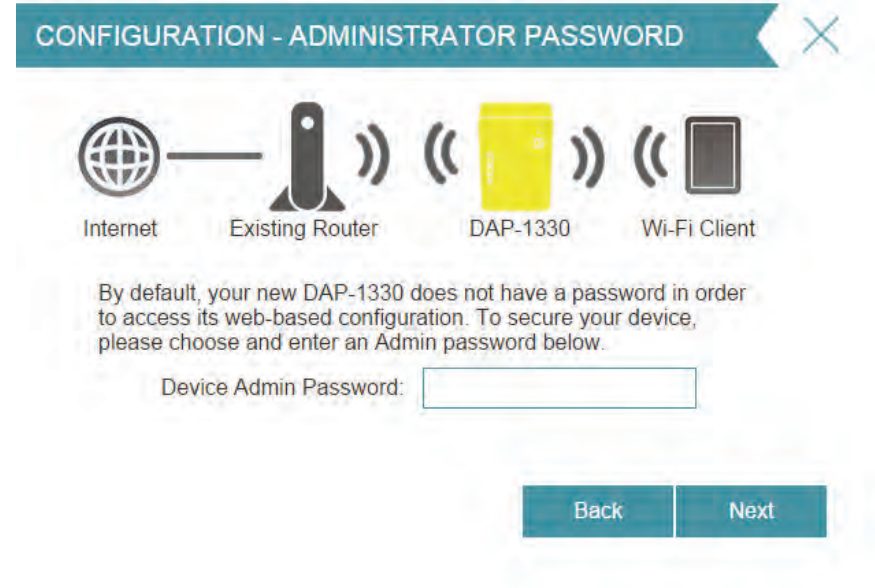
Click **Next** to continue, or click **Back** to return to the previous step.



Enter a custom password for administration of the extender.

The setup process is now complete. A summary page will appear showing the settings for both the connection to the uplink router, and the extended Wi-Fi network. It is recommended that you make a record of this information for future reference.

Click **Finish** to exit the wizard and return to the home screen.

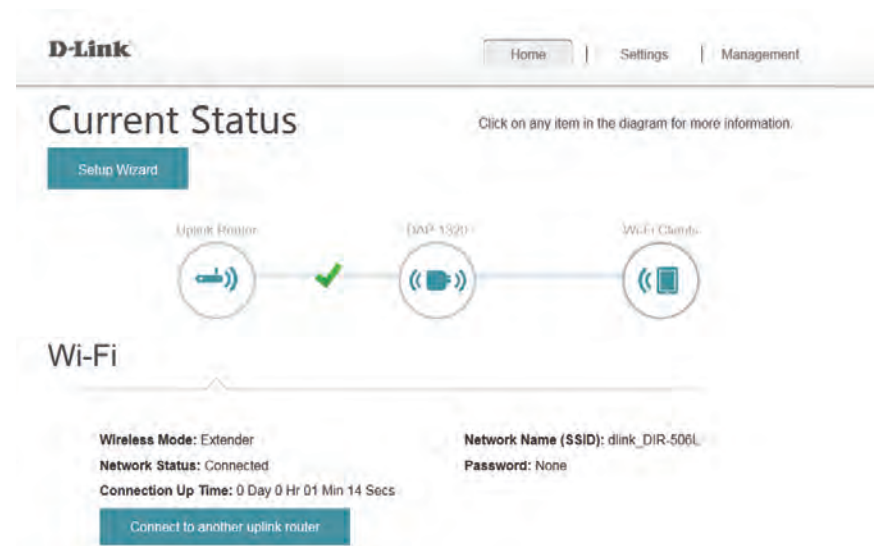


Home Screen

The home screen gives a summary of the current status of devices connected to the DAP-1330. A green check between devices indicates that there is an active connection. A red cross indicates that there is no connection present, or there is a connection error.

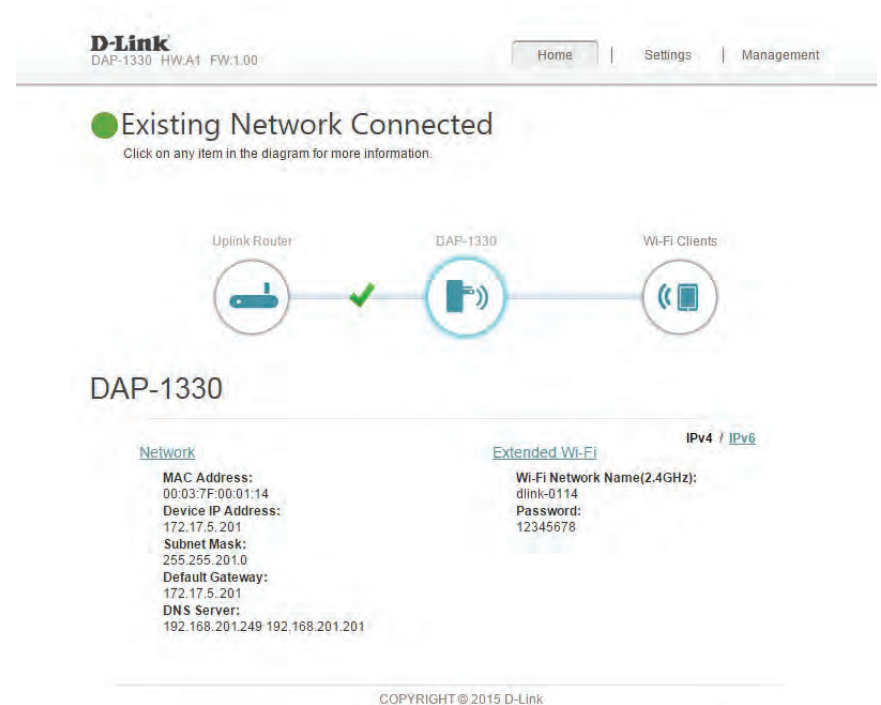


At any time, you can click on the device images on the home screen to view the current status of each device.



If there is no connection between the DAP-1330 and the uplink router, you can run the wizard to search for an available uplink router.

You can view the details of both the uplink router network and the extended Wi-Fi network by clicking on the DAP-1330 icon.



Extended Wi-Fi Settings

This page lets you configure the settings for the DAP-1330's extended wireless network. To access this page, click on the **Settings** drop-down menu at the top of the page, and select **Extended Wi-Fi**.

Existing network

Existing Network: Select the uplink type.

Wi-Fi Name(SSID): Enter the name of your router or click Scan to select from a list.

Security: Select None, WEP, or WPA/WPA2-Personal encryption depending on the security of your router.

Password: Enter the router Wi-Fi network password.

2.4GHz Extended Wi-Fi

Status: Enable or disable Access Point.

Extender
Use this section to configure the wireless settings for your DAP-1330. Please ensure you press Save after any changes made in this section for it to take effect.

Settings >> Extender Save

Existing Network

Existing Network: Wi-Fi

Wi-Fi Name (SSID):

Security: None

2.4GHz Extended Wi-Fi

Status: Enabled

Wi-Fi Name (SSID): dlink-0114

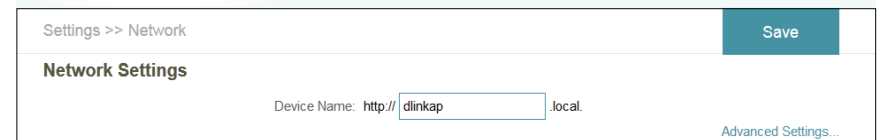
Security: WPA/WPA2-Personal

Password: 12345678

Network Settings

This page lets you configure the network settings for the DAP-1330. To access this page, click on the **Settings** drop-down menu at the top of the page, and select **Network**. Click **Save** at any time to save the changes you have made on this page.

Device Name: You can change the name of the device by editing the text in the text box. If you change the name of the device, you will need to enter "http://xxxx.local." (where "xxxx" corresponds to the name of the device) in the address bar of your web browser in order to access the configuration utility.



Settings >> Network Save

Network Settings

Device Name: http:// .local. Advanced Settings...

Advanced Settings

The Advanced Settings section of the Network Settings page allows you to configure both IPv4 and IPv6 settings which will be used by the DAP-1330's extended network.

IPv4 Device Management interface - You can select either a Dynamic or Static IPv4 configuration:

My LAN Connection is: Here you can select whether you want the IP to have a **Dynamic IP** or **Static IP** address. If you select Dynamic IP, the options below will not be available.

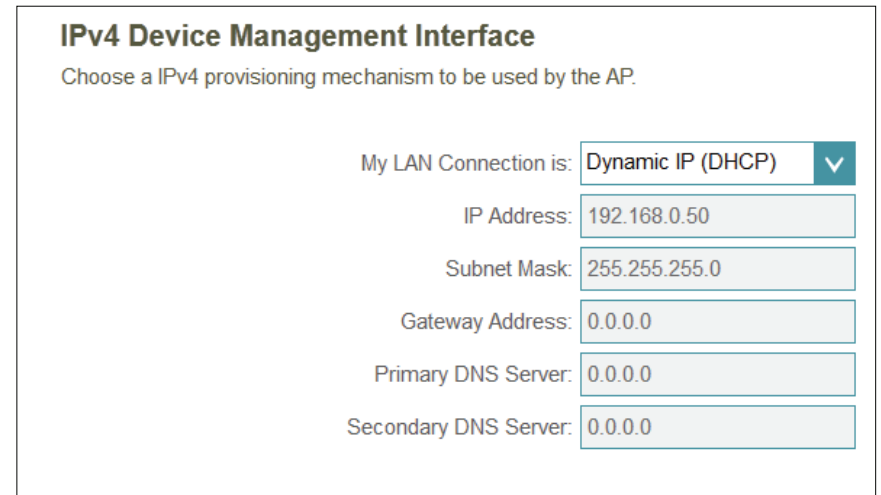
IP Address: Enter the Static IP address that you want to assign to the extended network AP. This address should be outside of the uplink router's DHCP address pool.

Subnet Mask: Enter the subnet mask.

Gateway Address: Enter the gateway address. This is usually the IP address of the uplink router.

Primary DNS Server: Enter the address of the primary DNS server.

Secondary DNS Server: Enter the address of the secondary DNS server. This is optional but will provide backup if the primary server fails.



IPv4 Device Management Interface

Choose a IPv4 provisioning mechanism to be used by the AP.

My LAN Connection is: ▼

IP Address:

Subnet Mask:

Gateway Address:

Primary DNS Server:

Secondary DNS Server:

IPv6 Device Management Interface - You can select an Autoconfiguration (dynamic), Static IP, or Link-local IPv6 configuration:

My IPv6 Connection is: Select **Autoconfiguration (SLAAC/DHCPv6)** to have the DAP-1330 automatically receive an IPv6 address from the uplink router.

Obtain DNS Server Address: You can select to obtain IPv6 DNS server information automatically, or you can select to configure DNS servers manually.

Primary DNS Server: Enter the primary IPv6 DNS server address.

Secondary DNS Server: Enter the secondary IPv6 DNS server address. This is optional but will provide backup if the primary server fails.

My IPv6 Connection is: Select **Static IPv6** to manually assign an IP address to the DAP-1330.

IPv6 Address: Enter the IPv6 address that you want to assign to the extended network AP. This address should be outside of the uplink router's DHCP address pool.

Subnet Prefix Length: Enter the length of the IPv6 subnet prefix.

Default Gateway: Enter the default gateway.

Primary DNS Server: Enter the primary IPv6 DNS server address.

Secondary DNS Server: Enter the secondary IPv6 DNS server address. This is optional but will provide backup if the primary server fails.

IPv6 Device Management Interface

Choose a IPv6 provisioning mechanism to be used by the AP.

My IPv6 Connection is: ▼

Obtain a DNS server address automatically or enter a specific DNS server address.

- Obtain IPv6 DNS Servers automatically
- Use the following IPv6 DNS Servers

Primary DNS Server:

Secondary DNS Server:

IPv6 Device Management Interface

Choose a IPv6 provisioning mechanism to be used by the AP.

My IPv6 Connection is: ▼

Enter the IPv6 address information that you would like to use to access the Web-based management interface.

IPv6 Address:

Subnet Prefix Length:

Default Gateway:

Primary DNS Server:


Secondary DNS Server:

My IPv6 Connection is: Select **Link-local only** to only set an IPv6 address for the local network.

LAN IPv6 Link-Local Address: The link-local address of the DAP-1330.

IPv6 Device Management Interface

Choose a IPv6 provisioning mechanism to be used by the AP.

My IPv6 Connection is: 

The LAN IPv6 Link-Local Address is the IPv6 Address that you use to access the Web-based management interface.

LAN IPv6 Link-Local Address: FE80::CABE:19FF:FEE5:1411/64

Maintenance Admin

This page will allow you to set a new password for the administrator account used to configure the DAP-1330. You can also enable graphical authentication (CAPTCHA) on this page. To access this page, click on the **Management** drop down menu at the top of the page, and select **Admin**. Click **Save** at any time to save the changes you have made on this page.

Admin Password: Enter the Admin password.

Enable Graphical Authentication: Click on the slider to enable graphical authentication, or CAPTCHA. This provides an extra layer of security by requiring you to enter a code that is displayed on-screen. This can help prevent unauthorized users from gaining access to your wireless network using automated methods.

D-Link Home Settings Management

Admin

The admin password is used to log in to this configuration interface.
It is highly recommended that you create a password to keep your router secure.

Management >> Admin Save

Admin Password:

Enable Graphical Authentication (CAPTCHA): Disabled

System

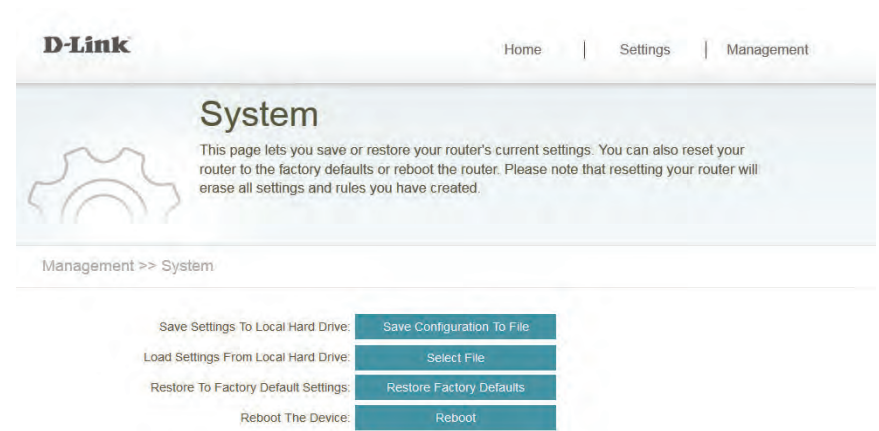
This page allows you to save or restore your system configuration, reset or reboot the DAP-1330. To access this page, click on the **Management** drop down menu at the top of the page, and select **System**. Click **Save** at any time to save the changes you have made on this page.

Save Settings To Local Hard Drive: Save the system settings onto a file to the local hard drive. You will then see a file dialog where you can select a location and file name for the settings.

Load Settings From Local Hard Drive: Load the system settings from a file on the local hard drive.

Restore to Factory Default Settings: Restore the system settings to factory default settings. This will erase all currently stored settings.

Reboot the Device: Click **Reboot** to reboot the DAP-1330.



Upgrade

Firmware and language upgrades may be provided for the DAP-1330 in future. You can check for and upgrade your firmware and language pack on this page. To access this page, click on the **Management** drop down menu at the top of the page, and select **Upgrade**. Click **Save** at any time to save the changes you have made on this page.

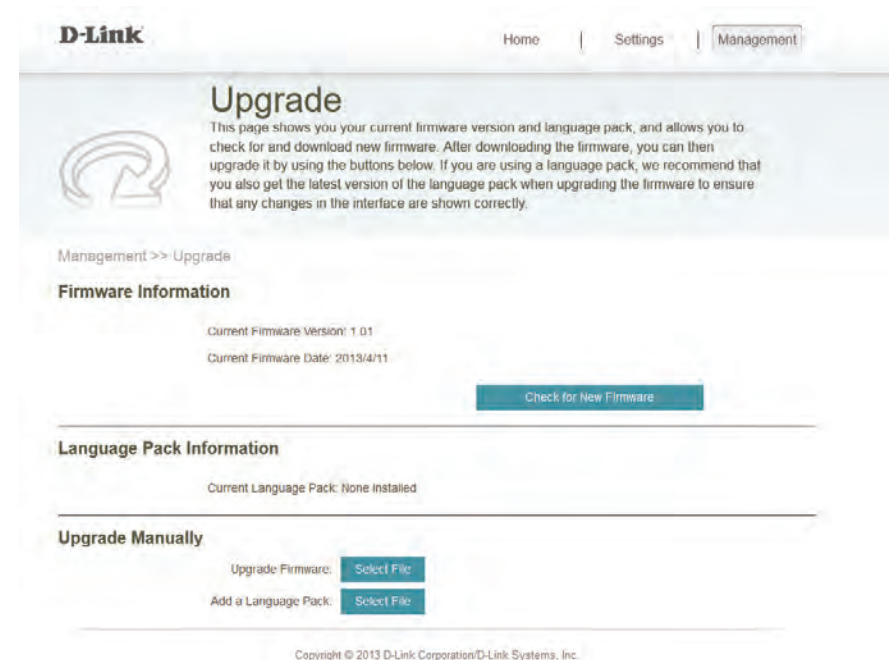
Firmware Information: This section displays the currently installed firmware version, as well as the date on which the current firmware version was released.

Check For New Firmware: Click **Check For New Firmware** to find out if there is new or updated firmware. If there is, you can download it to your computer.

Language Pack Information: This section will show the details of any language packs currently installed.

Upgrade Firmware: Click **Select File** to locate the firmware file on your local device and perform a manual firmware upgrade.

Add a Language Pack: Click **Select File** to locate a language pack file on your local device and add the language pack to the user interface.



Statistics

This page displays details about your wireless and network connections. To access this page, click on the **Management** drop down menu at the top of the page, and select **Statistics**.

Wi-Fi: Click on the **Wi-Fi** tab to display the statistics for the connection between the DAP-1330 and the uplink router.

Extended Wi-Fi Click on the **Extended Wi-Fi** tab to display the statistics for the connection between the DAP-1330 and any connected clients. .

Clear: Click the **Clear** button to reset the statistics.



Connecting a Wireless Client

WPS Button

WPS (Wi-Fi Protected Setup) is a simple and secure way to connect your wireless devices with the DAP-1330. Most wireless devices such as wireless routers, media players, printers, and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DAP-1330. Please refer to the user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

Step 1 - Press the WPS button on the DAP-1330 for about 1 second. The LED on the device will start to blink. You can also use the WPS option in the setup wizard section of the web interface.

Step 2 - Within 120 seconds, press the WPS button on your wireless device.

Step 3 - Allow up to 1 minute to configure. Once the LED light stops blinking and turns solid green, you will be connected and your wireless connection will be secured with WPA2.

Connect to a Wireless Network

Windows® 8

WPA/WPA2

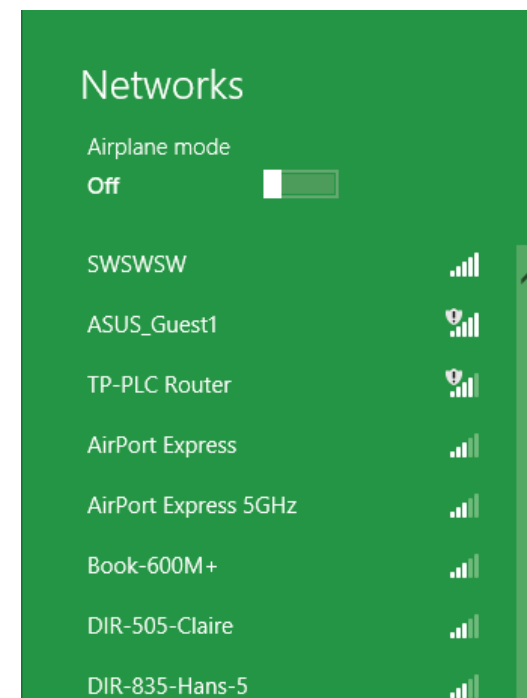
It is recommended to enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key (Wi-Fi password) being used.

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



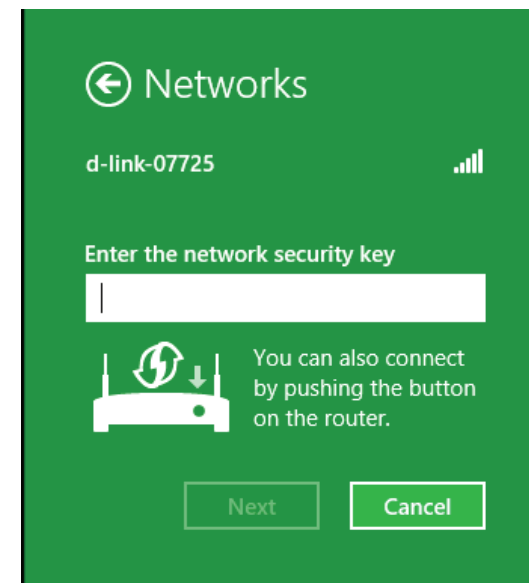
Wireless Icon

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

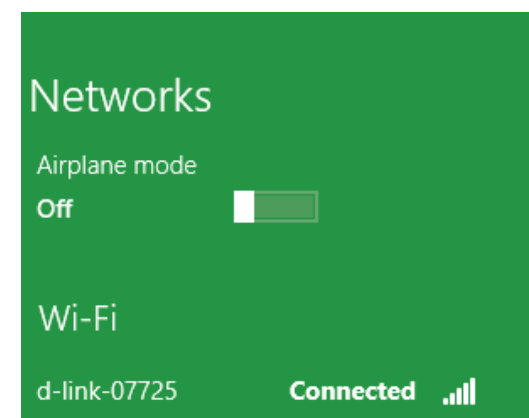


You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.

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



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



Windows® 7

WPA/WPA2

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.

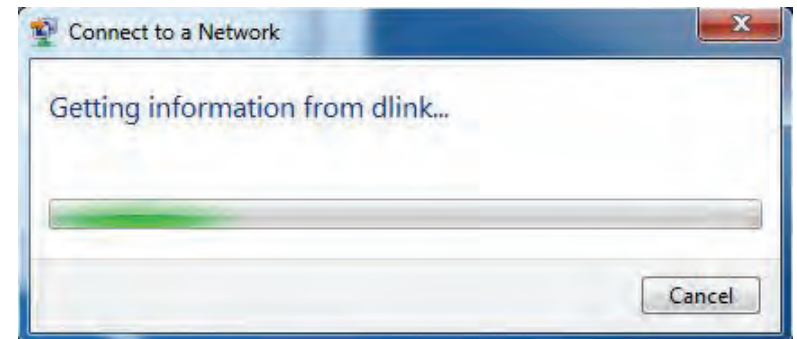


3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

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.

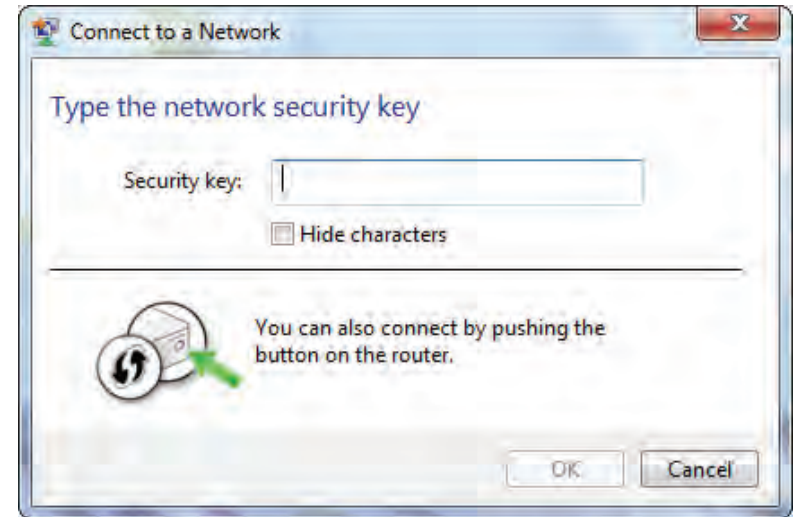


4. The following window appears while your computer tries to connect to the router.



5. Enter the same security key or passphrase that is on your router and click **Connect**.

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.



Windows Vista®

Windows Vista® users may use the built-in wireless utility. 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 Vista® utility as seen below.

If you receive the "Wireless Networks Are Available" bubble, click on the center of the bubble to access the utility.

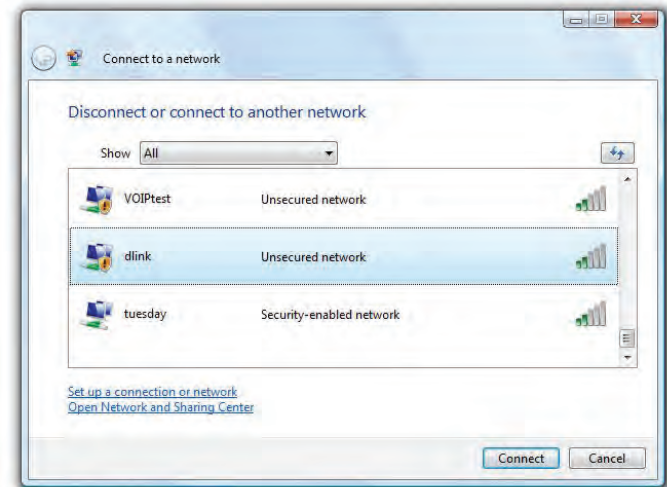
or

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



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

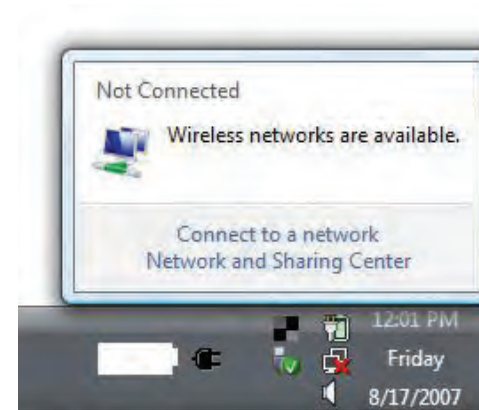
If you get a good signal but cannot access the Internet, check the TCP/IP settings for your wireless adapter. Refer to "Troubleshooting" on page 42 for more information.



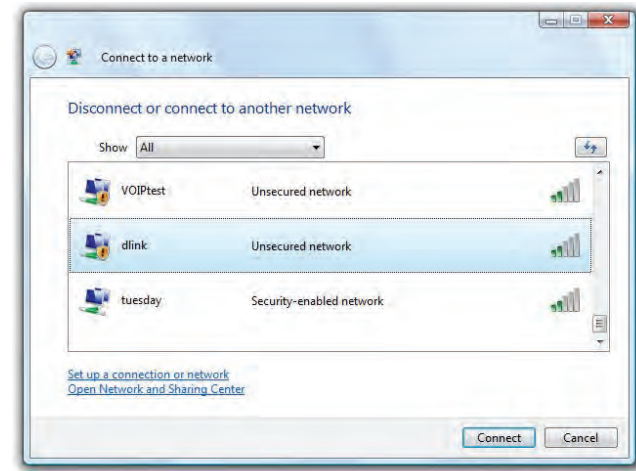
WPA/WPA2

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

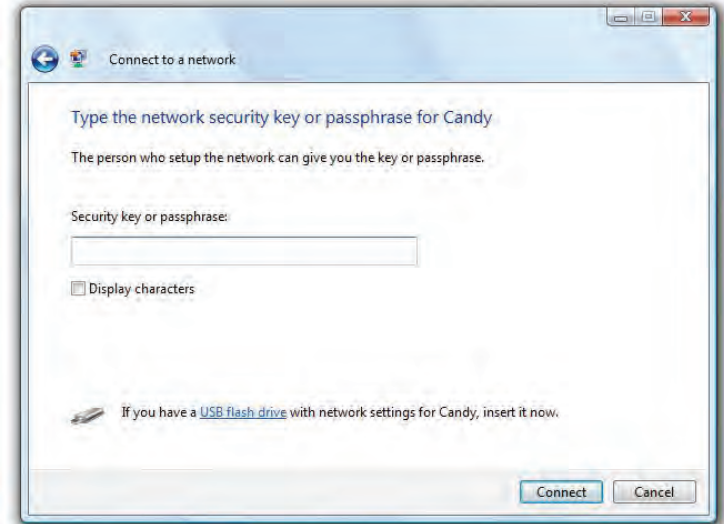


2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



3. Enter the same security key or passphrase that is on your router and click **Connect**.

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



Windows® XP

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

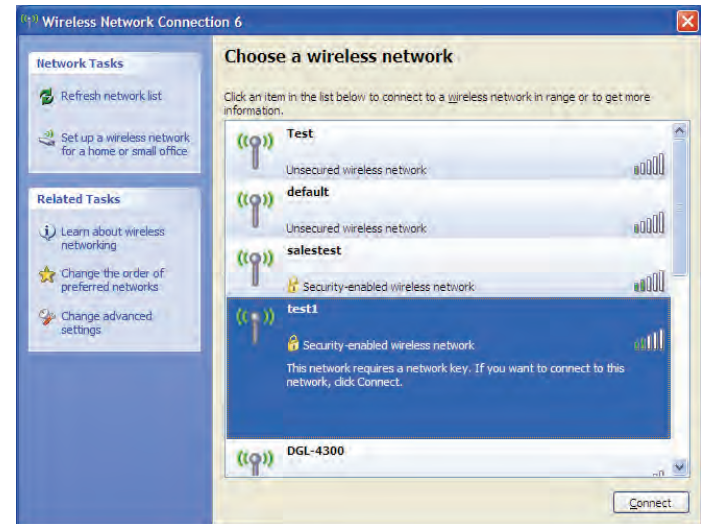
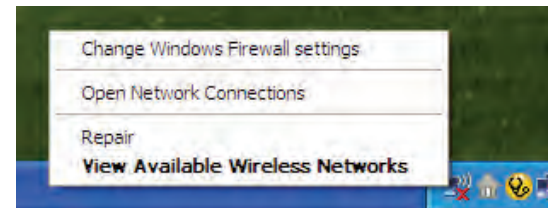
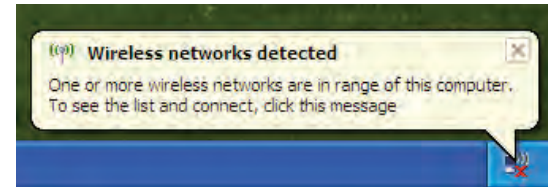
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

or

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

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

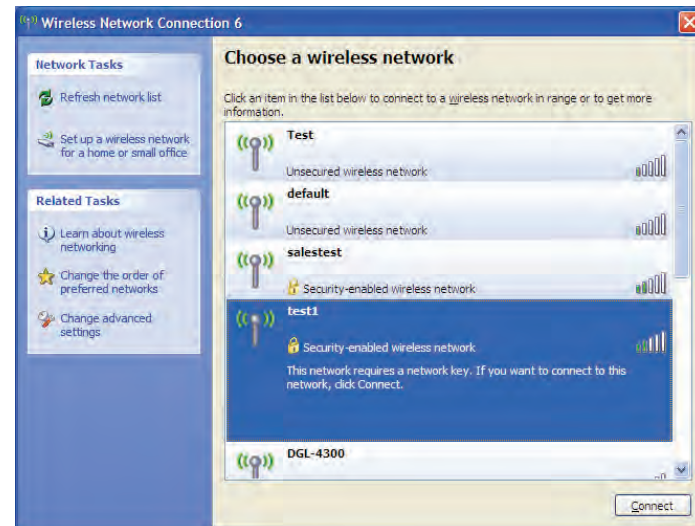
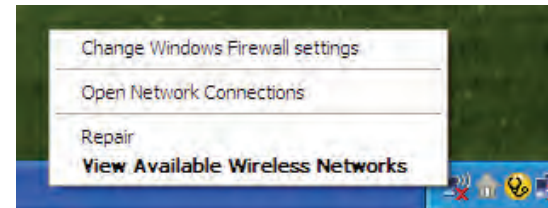
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



WPA/WPA2

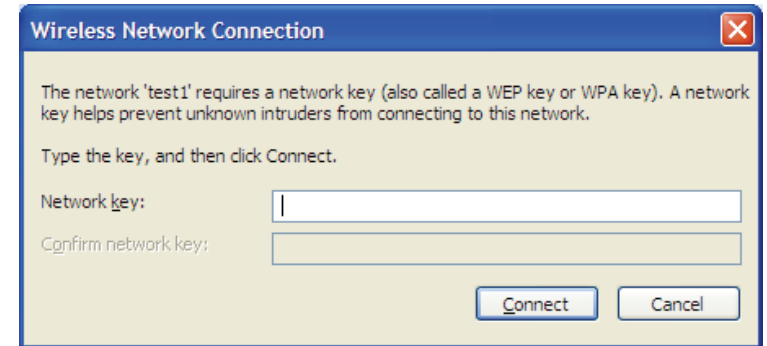
It is recommended to enable WPA on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WPA key being used.

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



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DAP-1330. 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 N300 Wi-Fi Range Extender (dlinkap.local for example), you are not connecting to a website nor do you have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Internet Explorer 7 or later
 - Firefox 12.0 or later
 - Safari 4 or later
 - Google Chrome 20.0 or later
- Make sure that you are connected to the same wireless network which is listed on the base of the DAP-1330. If you have an active wired LAN Ethernet connection, try temporarily unplugging the Ethernet cable from the computer you are using, as this may eliminate possible conflicts from having two simultaneous connections on the same computer.
- Disable any Internet security software running on the computer. Software firewalls such as ZoneAlarm, BlackICE, 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 interface. Open your web browser and enter the address of your extender (**http://dlinkap.local**) in the address bar. This should open the login page for your web management. If the DAP-1330 is not connected to an uplink router, you can try accessing the web interface using the default IP address **http://192.168.0.50**.
- If you still cannot access the configuration, unplug the extender from the power outlet for at least 10 seconds and plug it 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 extender. Unfortunately this process will change all your settings back to the factory defaults.

To reset the extender, locate the reset button (hole) on the underside panel of the unit. With the extender powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the extender will go through its reboot process (indicated by the LED turning Orange). Wait about 30 seconds to access the extender. The default IP address is **http://dlinkap.local**. When logging in, the username is **admin** and leave the password box empty.

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 and conveniently access your network. 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 adapters used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

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

Tips

Here are a few things to keep in mind when you are installing your N300 Wi-Fi Range Extender.

Centralize the extender's location

For best performance, make sure you place the extender in a centralized location within your desired usage area. Try to place the extender so that there are minimal obstructions between it and the uplink router. If possible, use an elevated power outlet, so the signal can be dispersed more easily. If you have a large home or usage area, you may need several extenders in order to achieve optimal coverage.

Eliminate Interference

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

Security

Don't let your neighbors or intruders connect to your wireless network. Secure your wireless network by utilizing the WPA or WEP security feature on the extender and uplink router. Refer to the relevant sections of this manual for further details.

Technical Specifications

Standards

- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b

Wireless Frequency Range ¹

- 2.4 GHz to 2.4835 GHz

Antenna

- External Antenna

Security

- Wi-Fi Protected Access (WPA/WPA2)
- WPS™ (PBC)
- Wired Equivalent Privacy (WEP) 64/128-bit

Advanced Features

- QRS Mobile setup app for iOS and Android devices

Device Management

- Web UI

Diagnostic LEDs

- Status/WPS/Signal

Operating Temperature

- 0 to 40 °C (32 to 104 °F)

Operating Humidity

- 0% to 90% non-condensing

Power Input

- AC 110-240 V

Maximum Power Consumption

- 2.8W

Certifications

- EMI/EMC
- FCC
- CE
- IC
- C-Tick
- UL
- Wi-Fi Certified

Dimensions

- 75 * 55 *34 mm

Weight

- 69 grams (0.152 lb)

¹ Frequency range varies depending on local regulations

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

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Safety Statements

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 NOTICE:

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

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

IC statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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.

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.

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

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

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

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

NCC 警語：

電磁波曝露量 MPE 標準值 (MPE) 1mW/cm²，送測產品實值為 0.082226mW/cm²

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