D-Link[®]





Wireless AC600 Dual Band Wall-Plug Cloud Router

DIR-518L

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
1.0	Nov 29, 2013	• Initial release

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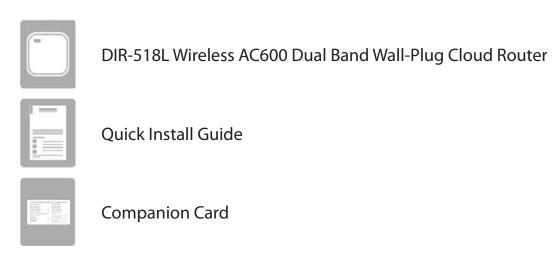
This purpose of this product is to create a constant network connection for your devices. As such, it does not have a standby mode or use a power management mode. If you wish to power down this product, please simply unplug it from the power outlet.

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Package Contents



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

System Requirements

Network Requirements	 Cable/DSL modem, 3G/4G USB adapter, or a hotspot IEEE 802.11ac/n/b/a wireless clients 10/100 Ethernet
Web-based Configuration Utility Requirements	 Computer with the following: Windows®, Macintosh, or Linux-based operating system An installed Ethernet adapter Browser Requirements: Internet Explorer 8 or higher Firefox 8.0 or higher Safari 4.0 or higher Google Chrome (16.0.9.12.75) Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.

Introduction

TOTAL SECURITY

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

TOTAL COVERAGE

Provides greater wireless signal rates even at farther distances for best-in-class Whole Home Coverage.

ULTIMATE PERFORMANCE

The D-Link Wireless AC600 Dual Band Wall-Plug Cloud Router (DIR-518L) lets you create a secure wireless network to share photos, files, music, video, printers, and network storage throughout your home. Connect the DIR-518L router to a cable or DSL modem and share your high-speed Internet access with everyone on the network. In addition, this Router includes a Quality of Service (QoS) engine that keeps digital phone calls (VoIP) and online gaming smooth and responsive, providing a better Internet experience.

TOTAL NETWORK SECURITY

The DIR-518L router supports all of the latest 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 method, regardless of your client devices. In addition, this router utilizes dual active firewalls (SPI and NAT) to prevent potential attacks from across the Internet.

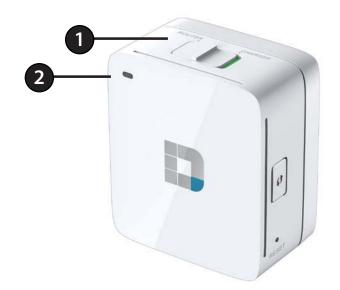
* Maximum wireless signal rate derived from IEEE Standard 802.11n and 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

Features

- Faster Wireless Networking The DIR-518L provides an up to 600 Mbps* wireless connection with other 802.11ac 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 802.11g Devices** The DIR-518L is still fully compatible with the IEEE 802.11g standards, so it can connect with existing 802.11g devices.
- **Multimedia On-The-Go** The DIR-510L is designed as the media hub for all of your mobile needs with the following features:
 - USB Interfaces Easily store and share music, videos, photos, and files on your USB drive while charging another device.
 - UPnP and DLNA Support Compliant with the latest DLNA certification requirements, the DIR-518L can stream many compatible media formats to other DLNA devices wirelessly.
 - mydlink SharePort app Stream your media and upload files locally or remotely through the Internet to your iPhone[®], iPad[®] or Android[™] device.
 - Charger Lets you charge your mobile 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.

Hardware Overview Front/Top



1	Mode Selector Switch	Slide this switch to select the Charger, Router modes.
2	LED Indicator	This indicates the current status of the DIR-518L, as detailed in the table below.

LED Indicator	Color	Status	Description
		Solid Green	The device is powered ON and operating properly
	Green	Blinking Green	The device is processing WPS
Power/Status		Light off	The device is off
	Red	Solid Red	During Power ON or system is defective
	neu	Light off	The device is powered off

Hardware Overview Bottom



1	USB Port	Connect a USB 1.1 or 2.0 flash drive to configure the wireless settings using SharePort and Mobile Web File Accsee. Both allow you share a 'USB or storage device with your local network. The USB port support 3G dongle also, you can via 3G to connect internet.
2	Ethernet Port	The auto MDI/MDIX Internet port is the connection for the Ethernet cable to the cable or DSL modem.

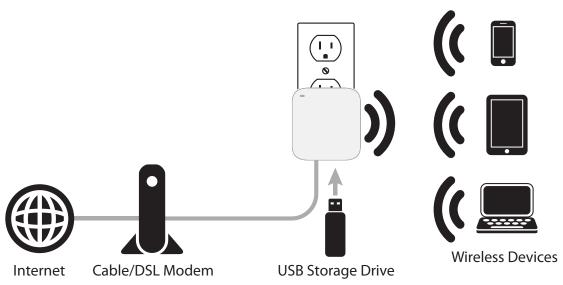
Operation Modes

Depending on how you want to use your DIR-518L will determine which mode you use. The following pages describe each mode to help you figure out which one to use.

- Charger Mode
- Router Mode

Router Mode

In Router Mode, the DIR-518L connects to your cable modem, DSL modem, or other Internet source and shares your Internet connection with your devices wirelessly, providing Internet access for an entire home or office. You can also share files with other computers or devices on your wireless network by using the SharePort Mobile feature.



Router Mode

Wireless Installation Considerations

The D-Link wireless router lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, 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 router and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- 2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
- 3. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
- 4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
- 5. If you are using 2.4GHz 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 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone in not in use.

Setting Up Your DIR-518L

1. Move the switch on the top of the DIR-518L to the mode you wish to use, then plug it in. Verify that the power LED has turned green before continuing.

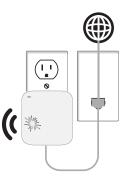
If you are using Router Mode:

Move the switch on the top of the DIR-518L to **Router** and plug it into a wall outlet near your cable/DSL modem or router.

Connect one end of the Ethernet cable into the Ethernet port of your cable/DSL modem or router and then plug the other end of the cable into the Ethernet port of the DIR-518L. Verify that the power LED has turned green before continuing.

2. From your laptop or mobile device, go to your Wireless Utility to display the available wireless networks and select the Wi-Fi name that is printed on the Wi-Fi Configuration Note included in your package (ex: dlink-a8fa). Then, enter the Wi-Fi password also printed on the Wi-Fi Configuration Note (akbdj1936).





ON

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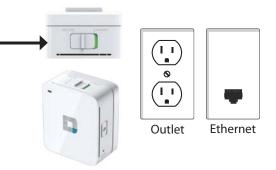
1 ? 0

IQCLab24

PMM Net

Strawberr

-



3. Open a web browser. First time users will automatically be directed to the appropriate Setup Wizard for the selected operation mode. Please follow the on-screen instructions to complete setup.

If the Setup Wizard does not appear, type **http://dlinkrouter** in the address bar.

For detailed information on configuring your device, refer to the following sections of the manual:

• "Router Mode" on page 23

WELCOME TO THE D-LINK SE	TUP WIZARD
This wizard will guide you throu connect to the Internet.	igh a step-by-step process to configure your new D-Link router and
 Step 1: Configure your Devic Step 2: Configure your Interr Step 3: Configure your WI-FI Step 4: Set your Password Step 5: Select your Time Zor Step 5: Save Sittings 	vet Connection Security
	Next Cencel
D D-LINK SY	rstems, INC. WIF × +
6 0	Shttp://dlinkrouter

Initial Setup Wizard (Router Mode)

If this is your first time setting up the DIR-518L, open your web browser. You will automatically be directed to the **Wizard Setup Screen**.

If the Setup Wizard does not appear, type **http://dlinkrouter** in the address bar.

If you have already configured your settings and you would like to access the configuration utility, please refer to "Web-based Configuration" on page 18.

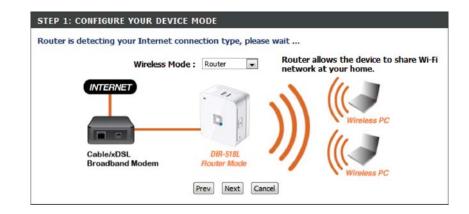
This wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

Click **Next** to continue.



	izard will guide you through a step-by-step process to configure your new D-Link router and ct to the Internet.
÷	Step 1: Configure your Device Mode Step 2: Configure your Internet Connection Step 3: Configure your Wi-Fi Security Step 4: Set your Password Step 5: Select your Time Zone Step 6: Save Settings
	Next Cancel

Select whether you want to use **Router** mode or **Access Point** mode for your DIR-518L and click **Next**. In most situations, Router mode should be used.



If you chose Router mode, the DIR-518L will try to detect what type of Internet connection you have and will ask you for the related settings. Enter the settings for your connection and click **Next**.

STEP 2: CONFIGURE	DUR INTERNET CONNECTION
Router is detecting yo	Internet connection type, please wait
	Prev Next Cancel

If your Internet connection cannot be detected(or if you click the **Prev** button after the previous step), you will need to select which type of Internet connection you have. Select your Internet connection type, then click the **Next** button and enter the related settings.

Note: Most cable modem connections use DHCP, and most DSL modem connections use **PPPoE**. If you are not sure which connection type you use or what settings to enter, contact your Internet service provider.

lease select your Internet	connection type below:
OHCP Connection (Dy Choose this if your Internet use this type of connection.	namic IP Address) connection automatically provides you with an IP Address. Most Cable Modems
Username / Password Choose this option if your Int modems use this type of cor	ternet connection requires a username and password to get online. Most DSL
Username / Password PPTP client.	Connection (PPTP)
Username / Password L2TP client.	Connection (L2TP)
Static IP Address Con Choose this option if your Int manually configured.	nection ternet Setup Provider provided you with IP Address information that has to be

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

Click **Next** to continue.

Enter a password to secure configuration access to your router. Please note that this password will be used to log in to the configuration interface, but is not the same as the password used for your wireless network. Check the **Enable Graphical Authentication** box to enable CAPTCHA authentication for added security. Click **Next** to continue.

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

Setup is complete, and your wireless network name and password will be displayed. It is recommended that you write this information down for future reference. Click **Save** to save your settings and reboot the router.

Give your Wi-Fi network a name. Wi-Fi Network Name (SSID) :	
MyDLinkNetwork	(Using up to 32 characters)
Give your Wi-Fi network a password. Wi-Fi Password :	•

STEP 4: SET YOUR PASSWORD				
to the Web-based configuration page a password below, and enabling CAPT	loes not have a password configured for administrator access as. To secure your new networking device, please set and verify TCHA Graphical Authentication provides added security online users and hacker software from accessing your network			
Password :				
Verify Password :				
Enable Graphical Authentication :				
	Prev Next Cancel			

Select the appropriation	iate time zone for your location. This informat s for the router.	ion is required to configure the
	(GMT+08:00) Taipei	v
	Prev Next Cancel	

SETUP COMPLETE!
Below is a detailed summary of your Wi-Fi security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your Wi-Fi devices.
Wi-Fi Network Name (SSID): MyDLinkNetwork
Wi-Fi Password : MyPassword
The Setup Wizard has completed. Click the Save button to save your settings and restart the router.
Prev Save Cancel

Firmware

You can upgrade the firmware of the DIR-518L 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 Click on **Check Now** to find out if there is an updated **Upgrade:** firmware; if so, download the new firmware to your hard drive.

After you have downloaded the new firmware, click **Browse** to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade. Do not disconnect from the DIR-518L or power your computer or DIR-518L off during the upgrade process.

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

Browse: Download a language pack from the D-Link website. 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.



Status Device Info

This page displays the current information for the DIR-518L. It will display the LAN and wireless LAN information.

General: Displays the time and firmware version.

- WAN Displays information about the connection to your modem or Internet connection.
- 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.

LAN Displays information about the devices on your local Computers: network.

-Lini	Č					
05 / Router	SETUP	ADVANCED		MAINTENANCE	STATUS	HELP
INFO	DEVICE INFORMATIO	DN				Helpful Hints
	All of your wireless and		on details a	re displayed on this p	age. The firmware	All of your WAN a
rics	version is also displayed	here.				LAN connection of are displayed here
ET SESSIONS	GENERAL					
55	UENEKAL					More
	Custom I	Time: Jan/01; Ip Time: O Day, I		13:50		
		/ersion: 1.00,		Feb 2012		
	WAN					
	Connectio	n Type : DHCP cl	ient			
		Status : Disconn				
	Network	Status : Disconn	ected			
	DHCP Renew DHCP Release					
	Connection Up Time : N/A					
		ddress: 00:18:e	7:95:6d:c9	9		
		ddress: 0.0.0.0				
		ateway: 0.0.0.0				
		Server : 0.0.0.0				
		Server: 0.0.0.0				
	LAN					
	MAC A	ddress : 00:18:e	7:95:6d:c8	3		
	IP A	ddress : 192.168	3.0.1			
		t Mask : 255.255				
	DHCP	Server : Enabled				
	WIRELESS LAN					
		s Radio : Enable				
	Wireless Mode: Mixed 802.11n, 802.11g and 802.11b Channel Width: Auto 20/40 MHz					
	Channel: 1					
		Setup : Enable /	/ Configure	d		
	SSID List		-			
	Network Name (SSID)	Gui	est	MAC Address	Security Mode	
	MobileCompanion-Claire	No		00:18:e7:95:6d:c8	WPA/WPA2 -	
				UU:18:e7:95:6d:68	Personal	

Connecting a Wireless Client WPS Button

The easiest and most secure way to connect your wireless devices to the router is WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DIR-518L router. Please refer to your user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

Step 1 - Press the WPS button on the DIR-518L for about 1 second. The WPS button will start to blink.

- Step 2 Within 2 minutes, press the WPS button on your wireless client (or launch the software utility and start the WPS process).
- **Step 3** Allow up to 1 minute to configure. Once the WPS light stops blinking, you will be connected and your wireless connection will be secure with WPA2.

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).



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 a Network Getting information from dlink Cancel





D-Link DIR-518L User Manual

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.

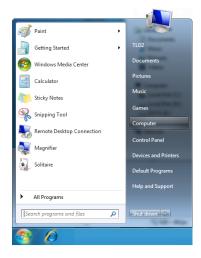
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.

Connect to a Network	×
Type the network security key	
Security key:	
Hide characters	
You can also connect by pushing the button on the router.	
ОК	Cancel

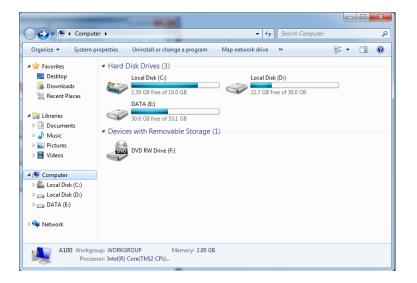
WPS

The WPS feature of the DIR-518L can be configured using Windows[®] 7. Carry out the following steps to use Windows[®] 7 to configure the WPS feature:

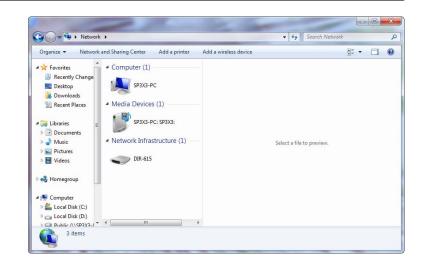
1. Click the **Start** button and select **Computer** from the Start menu.



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



3. Double-click the DIR-518L.



 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.

G 😵 Set	Up a Network
To set	t up a network, type the 8-digit PIN from the router label
	n find the numeric PIN on a label attached to the or in the printed information that came from the acturer.
PIN:	
	Next Cancel

5. Type a name to identify the network.

Set Up a Network

Give your network a name

Your network needs a unique name so that it can be easily identified. It is best to keep the name short (25 characters or less) and recognizable.

Type your network name:

D-Link_Ned

D-Link_Ned

Change passphrase, security level and encryption type (advanced):

Image with the passe of the router using the network settings stored on this computer

Next

Cancel

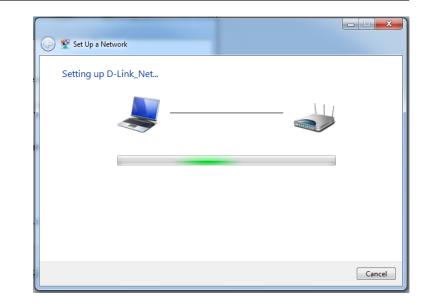
6. To configure advanced settings, click the \bigcirc icon.

Click Next to continue.

G	😵 Set Up a Network			
	Give your network a name			
	Your network needs a unique name so that it can characters or less) and recognizable.		be easily identified. It is best to keep the name short (25	
	Type your network name:	C.	Ø Security-enabled network	
	D-Link_Net		Your network is being set up using WPA2-Personal.	
	Change passphrase, security level and enc Security key:		type (advanced): 💽	
	f6mm-gizb-9vmv		WPA2-Personal (Recommended)	
	Connect automatically		Encryption type:	
			AES (Recommended)	
Upgrade or replace the router using the network settings stored on this computer				
			Next Cancel	

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

Wait for the configuration to complete.



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

C Set Up a Network
D-Link_Net has been successfully set up To add an older wireless device to this network, you might need to provide this security key
894g-eyd5-g5wb
You can <u>print these network settings</u> for future reference. For gaming consoles or computers running Windows XP, <u>copy the network profile to a USB drive</u> for easier set up.
Close

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 Detected** bubble, click on the center of the bubble to access the utility.

or

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

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

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





WPA/WPA2

It is recommended 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**.

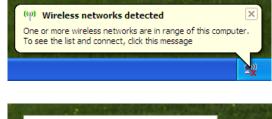
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.

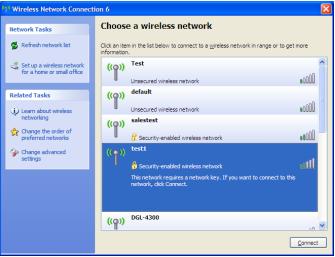
Туре	the network security key or passphrase for Candy
The pe	erson who setup the network can give you the key or passphrase.
Securit	ty key or passphrase:
Dis Dis	play characters
	If you have a <u>USB flash drive</u> with network settings for Candy, insert it now.

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.

(iii) Wireless networks detected If you receive the Wireless Networks Detected bubble, click on the One or more wireless networks are in range of this computer center of the bubble to access the utility. To see the list and connect, click this message or Change Windows Firewall settings Open Network Connections Repair View Available Wireless Networks Wireless Network Connection 6 Choose a wireless network Network Tasks Refresh network list Set up a wireless network for a home or small office Test ((Q)) Unsecured wireless network Related Task ((0)) Unsecured wireless network Learn about wireless ((())) ☆ Change the order of Security-enabled wireless network test1





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.

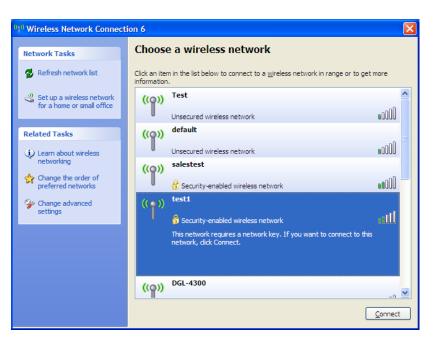
If you get a good signal but cannot access the Internet, check you TCP/ IP settings for your wireless adapter. Refer to the Networking Basics section in this manual for more information.

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.

Wireless Network Conn	ection 🛛 🔀				
The network 'test1' requires a network key (also called a WEP key or WPA key). A network key helps prevent unknown intruders from connecting to this network.					
Type the key, and then dick Connect.					
Network <u>k</u> ey:					
Confirm network key:					
	<u>C</u> onnect Cancel				

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-518L. 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 router (192.168.0.1 for example), you are not connecting to a website nor do you have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Microsoft Internet Explorer[®] 6.0 and higher
 - Mozilla Firefox 3.0 and higher
 - Google[™] Chrome 2.0 and higher
 - Apple Safari 3.0 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 router in the address bar. This should open the login page for your web management.
- If you still cannot access the configuration, unplug the power to the router for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

2. What can I do if I forgot my password?

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

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

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

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

- Click on Start and then click Run.
- Windows[®] 95, 98, and Me users type in **command** (Windows[®] NT, 2000, XP, Vista[®], and 7 users type in **cmd**) and press Enter (or click OK).
- Once the window opens, you'll need to do a special ping. Use the following syntax:

ping [url] [-f] [-l] [MTU value]	C:∖>ping yahoo.com -f -l 1482
	Pinging yahoo.com [66.94.234.13] with 1482
	Packet needs to be fragmented but DF set. Packet needs to be fragmented but DF set. Packet needs to be fragmented but DF set. Packet needs to be fragmented but DF set.
Example: ping yahoo.com -f -l 1472	Ping statistics for 66.94.234.13: Packets: Sent = 4, Received = 0, Lost = Approximate round trip times in milli-secon Minimum = 0ms, Maximum = 0ms, Average
	C:∖>ping yahoo.com -f -l 1472
	Pinging yahoo.com [66.94.234.13] with 1472
	Reply from 66.94.234.13: bytes=1472 time=93 Reply from 66.94.234.13: bytes=1472 time=10 Reply from 66.94.234.13: bytes=1472 time=12 Reply from 66.94.234.13: bytes=1472 time=20
	Ping statistics for 66.94.234.13: Packets: Sent = 4, Received = 4, Lost = Approximate round trip times in milli-secon Minimum = 93ms, Maximum = 203ms, Averag
	C:\>

bytes of data:

4 (100% loss)

bytes of data: s TTL=52 TTL=52

0 (0% loss), = 132ms

iae

Øms

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

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

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

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

Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business or public access wireless networks. Strictly adhering to the IEEE standard, the D-Link wireless family of products will allow you to securely access the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking delivers.

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people 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 Router is a device used to provide this link.

What is Wireless?

Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly, so you have the freedom to connect computers anywhere in your home or office network.

Why D-Link Wireless?

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

How does wireless work?

Wireless works 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 as become so popular in recent years that almost everyone is using it, whether it's for home, office, business, D-Link has a wireless solution for it.

Home

- 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 router or Access Point

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

Eliminate Interference

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

Security

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

Networking Basics

Check your IP address

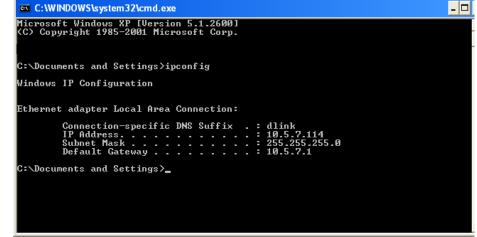
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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

At the prompt, type *ipconfig* and press Enter.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.



Statically Assign an IP address

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

Step 1

Windows® 7 -	Click on Start > Control Panel > Network and Internet > Network and Sharing Center.
Windows Vista [®] -	Click on Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network
	Connections.
Windows [®] XP -	Click on Start > Control Panel > Network Connections.
Windows [®] 2000 -	From the desktop, right-click My Network Places > Properties .

Step 2

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

Step 3

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

Step 4

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

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set the Default Gateway the same as the LAN IP address of your router (I.E. 192.168.0.1).

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

Step 5

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

eneral	
	ed automatically if your network supports need to ask your network administrator for
Obtain an IP address auto	omatically
💿 Use the following IP addr	BSS:
IP address:	192.168.0.52
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server addre	ss automatically
💿 Use the following DNS se	rver addresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	<u>x 5 2</u>
	Advanced
	Advanced

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Federal Communication Commission Interference Statement

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

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Т 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

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

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

environment. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor

Radiation Exposure Statement:

with minimum distance 34cm between the radiator & your body. uncontrolled environment. This equipment should be installed and operated This equipment complies with FCC radiation exposure limits set forth for an

FOR COUNTRY CODE SELECTION USAGE (WLAN DEVICES)

available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only. Note: The country code selection is for non-US model only and is not

Industry Canada statement:

interference that may cause undesired operation. interference, and (2) this device must accept any interference received, including subject to the following two conditions: (1) This device may not cause harmful This device complies with RSS-210 of the Industry Canada Rules. Operation is

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

Caution :

the potential for harmful interference to co-channel mobile satellite systems; the device for operation in the band 5150-5250 MHz is only for indoor use to reduce

Avertissement:

aux systèmes de satellites mobiles utilisant les mêmes canaux; pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement

Radiation Exposure Statement:

The as far as possible from the user body or set the device to lower output power if such manual. The further RF exposure reduction can be achieved if the product can be uncontrolled environment and are safe for intended operation as described in this function is available product comply with the Canada portable RF exposure limit set forth for an kept

Déclaration d'exposition aux radiations:

les Etats-Unis et le Canada établies pour un environnement non contrôlé F produit est conforme aux limites d'exposition pour les appareils portables RF pour

possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction la plus faible si une telle fonction est disponible.

Radiation Exposure Statement:

minimum distance 34cm between the radiator & your body. uncontrolled environment. This equipment should be installed and operated with This equipment complies with IC radiation exposure limits set forth for an

Déclaration d'exposition aux radiations:

un minimum de 34 cm de distance entre la source de rayonnement et votre corps. pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies