D-Link
Quick Installation Guide

This product works with the following operating system software: Windows XP, Windows 2000, Windows Me, Windows 98SE

DWL-650+
D-Link AirPlus™
Wireless Cardbus Adapter

Before You Begin

You must have at least the following:

- A laptop computer with an available 32-bit Cardbus slot
- At least a 300 MHz processor and 32 MB of memory
- Cardbus Controller properly installed and working in the laptop computer
- An 802.11b Access Point (for Infrastructure Mode) or another 802.11b wireless adapter (for Ad-Hoc; Peer-to-Peer networking mode.)

Check Your Package Contents

These are the items included with your DWL-650+ purchase:

- **DWL-650+ Wireless Cardbus Adapter**

- **CD-ROM (containing Drivers, Manual and Warranty)**

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

1 Insert the D-Link CD-ROM Into Your Computer

Turn on the computer and **Insert** the **D-Link AirPlus DWL-650+ Driver CD** in the CD-ROM drive.

The step-by-step instructions that follow are shown in **Windows XP**. The steps and screens are similar for the other Windows operating systems.

Do **NOT** install the DWL-650+ Cardbus Adapter into your computer before installing the driver software on the D-Link CD!
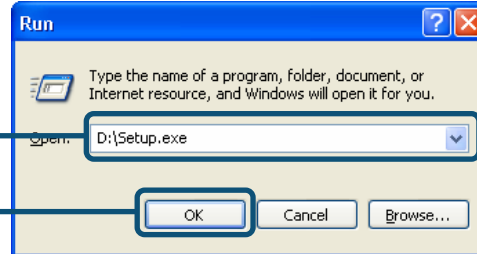
Insert the D-Link CD (continued)

The Install Screen will appear.

Click Install Driver/PC Utility

If the CD Autorun function on your computer does not automatically start, go to **Start** > **Run** and type "D:\Setup.exe." If it does start, proceed to the next screen.
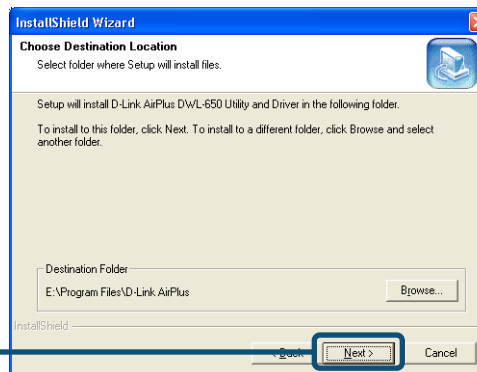
Type "D:\Setup.exe."

⚠ The letter **"D"** represents the letter of the CD-ROM drive. Your CD-ROM drive may be a different drive letter.

Click OK

Click Next

Click Next

Click No, I will restart my computer later

Click Finish
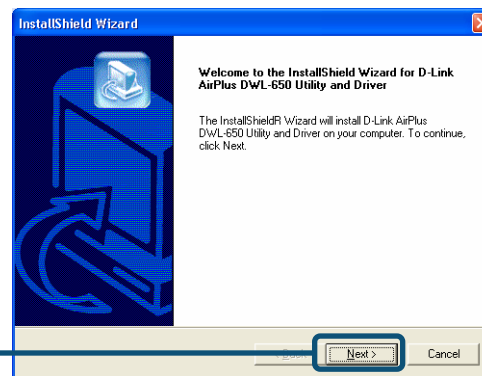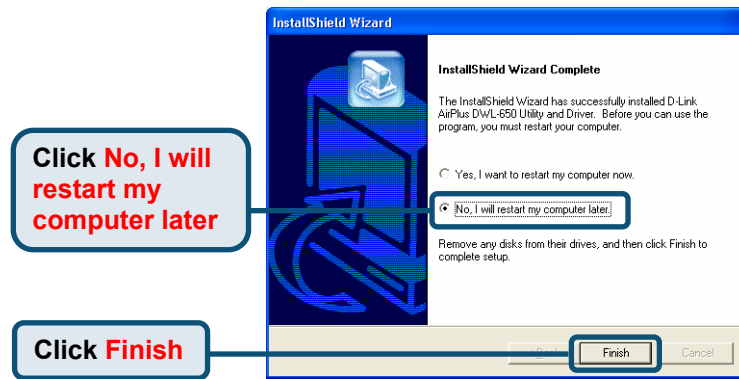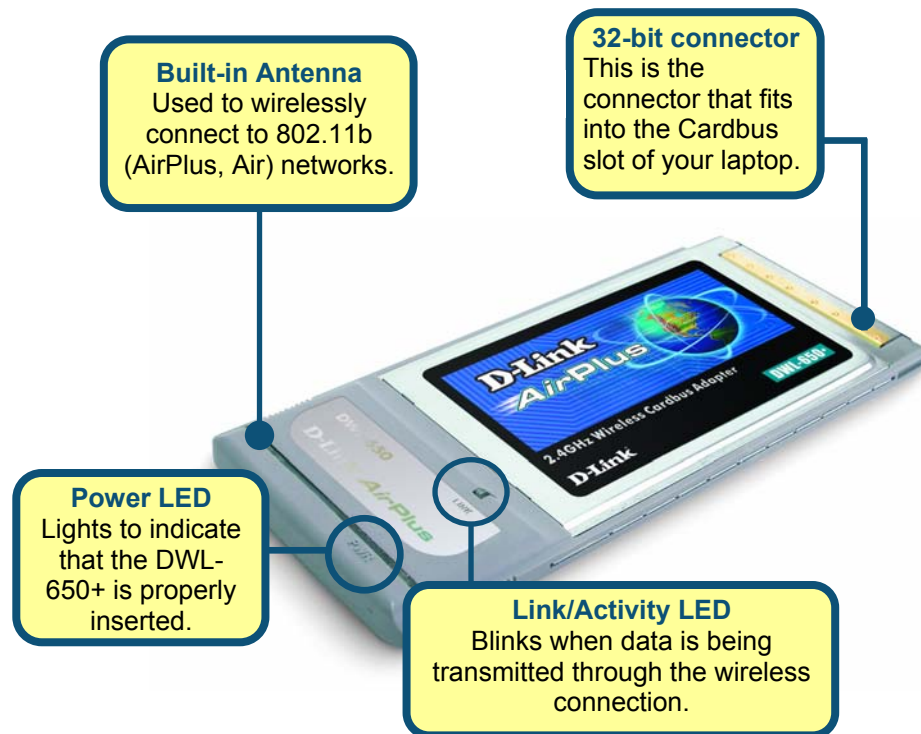

Shut down your laptop

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2 **Insert the DWL-650+ Wireless Cardbus Adapter Into the Cardbus Slot in Your Laptop**

A. **Make sure to turn off the laptop computer.**
B. Locate the Cardbus slot on your laptop computer.

C. Gently insert the DWL-650+ into the Cardbus slot in your laptop computer (as shown.)

2 Insert the DWL-650+ Wireless Cardbus Adapter Into the Cardbus Slot in Your Laptop

Built-in Antenna
Used to wirelessly connect to 802.11b (AirPlus, Air) networks.

32-bit connector
This is the connector that fits into the Cardbus slot of your laptop.

Power LED
Lights to indicate that the DWL-650+ is properly inserted.

Link/Activity LED
Blinks when data is being transmitted through the wireless connection.

3 Restart Your Laptop Computer

When you restart your computer this **Found New Hardware Wizard (Windows XP)** screen will appear:

Select Install the software automatically (Recommended)

Click Next

Welcome to the Found New Hardware Wizard

This wizard helps you install software for:

D-Link DWL-650+ Wireless Cardbus Adapter

If your hardware came with an installation CD or floppy disk, insert it now.

Install the software automatically (Recommended)

Click Next to continue.

For Windows XP: this **Hardware Installation** alert screen may appear after the desktop computer restarts.

Click Continue Anyway to finalize the installation

Hardware Installation

The software you are installing for this hardware:
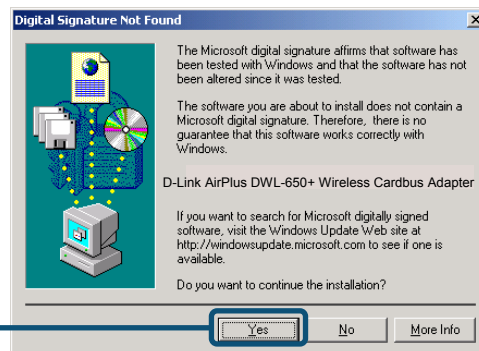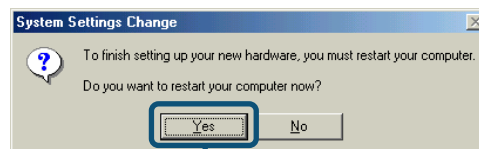
D-Link AirPlus DWL-650+ Wireless Cardbus Adapter

has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)

Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.

[Continue Anyway] [STOP Installation]

(The D-Link driver software for this device is undergoing Windows Logo testing. Microsoft certification is pending.)

For Windows 2000, this **Digital Signature Not Found** screen may appear after your computer restarts.

Click Yes to finalize the installation

Digital Signature Not Found

The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.

The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.

D-Link AirPlus DWL-650+ Wireless Cardbus Adapter

If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.

Do you want to continue the installation?

[Yes] [No] [More Info]

For Windows Me and 98, after your computer restarts, this **Systems Settings Change** screen may appear.

Select Yes to finalize the installation

System Settings Change

To finish setting up your new hardware, you must restart your computer.

Do you want to restart your computer now?

[Yes] [No]

4 Your Installation is Complete!

After you've continued in Windows XP (or after the computer restarts in the other Windows operating systems), the D-Link AirPlus DWL-650+ **Configuration Utility** will automatically start and the utility icon will appear in the bottom right hand corner of the desktop screen (systray). **If this icon appears GREEN, then you have successfully installed the DWL-650+, are connected to a wireless network and are ready to communicate!**

Double-click the utility icon to use the configuration utility.

4:43 PM

⚠ **If the utility icon does not appear, double-click the shortcut icon that has appeared on your desktop.**

D-Link AirPlus
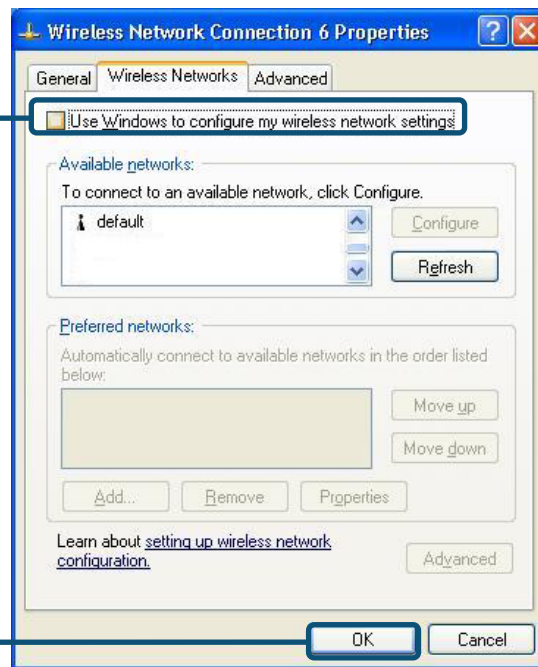**DWL-650+**
Utility

APPENDIX

For Windows XP, if you wish to use the DWL-650+ utility, please do the following steps.

Click the XP Networking icon to use the Zero Configuration Wireless Settings.

9:15 AM

Wireless Network Connection 6

The following wireless network(s) are available. To access a wireless network, select it from the list, and then click Connect.

Available wireless networks:

- default
- testlab
- newportroom

⚠ This wireless network is not secure. Because a network key (WEP) is not used for authentication or for data encryption, data sent over this network might be subject to unauthorized access.

☐ Allow me to connect to the selected wireless network, even though it is not secure

If you are having difficulty connecting to a network, click Advanced.

Click Advanced

Advanced...   Connect   Cancel

Wireless Network Connection 6 Properties

General | Wireless Networks | Advanced

☐ Use Windows to configure my wireless network settings

Uncheck "Use Windows to configure my wireless network settings.

Available networks:

To connect to an available network, click Configure.

- default

Configure
Refresh

Preferred networks:

Automatically connect to available networks in the order listed below:

Move up
Move down

Add...   Remove   Properties

Learn about setting up wireless network configuration.

Advanced

Click OK

OK   Cancel

APPENDIX

Using the Configuration Utility

The **D-Link AirPlus Configuration Utility** window will appear. By default, it will take you to the **Link Info** section.

A. Status: Displays the MAC Address of the Access Point that is associated with the DWL-650+.

B. SSID: The Service Set Identifier is the name assigned to the wireless network. The factory SSID setting is set to **default**.

C. TxRate: The default setting is 11 Mbps; however, TxRate settings are auto-matically determined by the DWL-650+ depending on the distance from the access point.
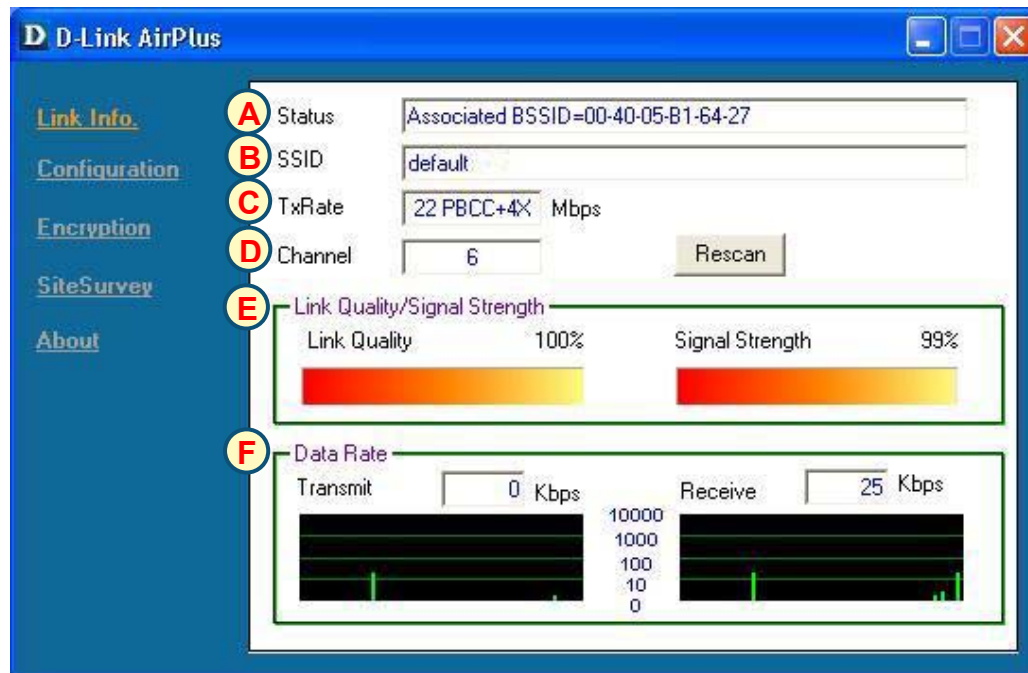
D. Channel: Displays the channel information. By default, the channel is set to 6 and selection is automatically determined by the DWL-650+.

E. Link Quality / Signal Strength: Displays the Link Quality for the DWL-650+ wireless connection to the access point. The Signal Strength represents the wireless signal between the access point and the DWL-650+. The percentage coincides with the graphical bar.

F. Data Rate: Graphically displays the statistics of data transmitted and received.

Make changes to the DWL-650+'s factory settings by clicking on the Configuration menu.

G. SSID: The Service Set Identifier is the name assigned to the wireless network. The factory SSID setting is set to **default**. Make changes here to match the SSID on existing Wireless Router or Access Point.

H. Wireless Mode: The factory setting is set to **Infrastructure**. Ad-Hoc mode is used for peer-to-peer networking.

I. Channel: By default, the channel is set to **6**. Channel selection is automatically determined by the DWL-650+ depending on the channel setting of the access point selected for association. To change the channel settings, the **Wireless Mode** must be set to **Ad-hoc**.

By default the 4x feature is enabled. To disable the 4x feature click **4x Disable.**

J. TxRate: You can adjust the transmission rate to get the best connection speed depending on your usage and your environment.

⚠ The preamble setting of the DWL-650+ must match the preamble setting of the Wireless Router or Access Point in order to communicate on the network.

K. Preamble: By default, D-Link AirPlus Products are set to **Long Preamble**. The Preamble defines the length of the CRC block (Cyclic Redundancy Check is a common technique for detecting data transmission errors) for communication between the Access Point and wireless network adapters. High network traffic areas should use the shorter preamble type.

L. Power Mode: By default, Power Mode is set to Continuous Access Mode. **Continuous Access Mode** — this default setting consumes the most power. **Maximum Power Save** — this setting consumes the least power. **Power Save** — this setting consumes a moderate amount of power.
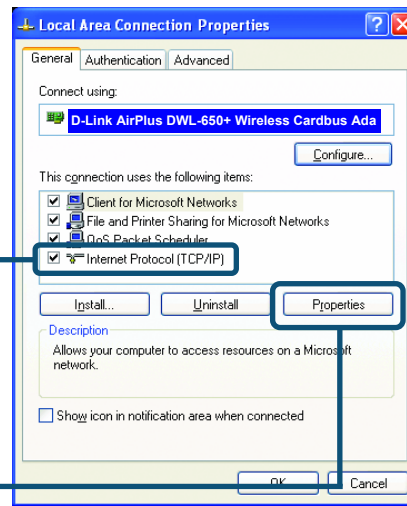
APPENDIX

To connect to a network**, make sure the proper network settings are configured for DWL-650+.**

For **Microsoft Windows XP:**

Go to **Start** > **right click** on
My Network Places >
select **Properties** > **Double-click** on
the **Network Connection** associated
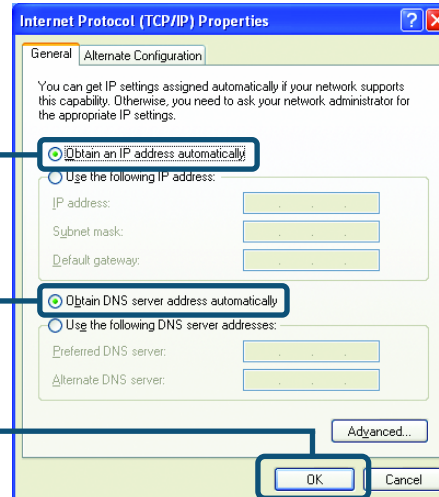with the DWL-650+.

Click Internet Protocol (TCP/IP)

Click Properties

Select Obtain an IP address automatically (if the Wireless Router or Access Point has DHCP server enabled)

Select Obtain DNS server address automatically

Click OK

Setup for wireless router or Access Point using Static IP address.

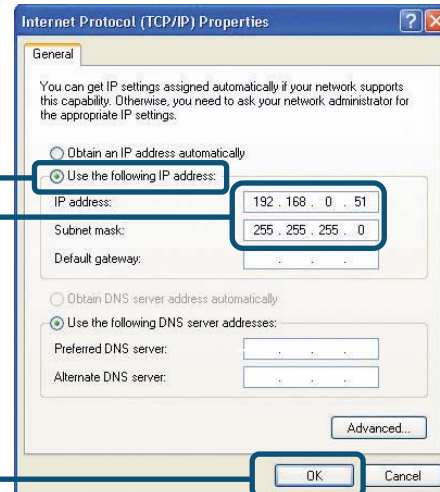**Select Use the following IP address** (if the Wireless Router or Access Point does not have DHCP server enabled

Input a static IP address on the same network, which will correspond with the Wireless Router or Access Point.

IP address: 192.168.0.51
Subnet mask: 255.255.255.0

Your Internet service provider provides preferred DNS server information.

Click OK

For Windows 2000 users:

Go to Start > Settings > Network and Dial-up Connections > Double-click on the **Local Area Connection** associated with the DWL-650+ > select **Properties**

Local Area Connection 5 Properties

General | Sharing

Connect using:

D-Link AirPlus DWL-650+ Wireless Cardbus Adapter

Configure

Components checked are used by this connection:

- ☑ Client for Microsoft Networks
- ☐ Network Load Balancing
- ☑ File and Printer Sharing for Microsoft Networks
- ☑ Internet Protocol (TCP/IP)

Install... | Uninstall | Properties

Description

Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.

☐ Show icon in taskbar when connected

OK | Cancel

Click Internet Protocol (TCP/IP)

Click Properties

Setup for wireless router or Access Point using **DHCP server**.

Select Obtain an IP address automatically (if the Wireless Router or Access Point has DHCP server enabled)

Select Obtain DNS server address automatically

Click OK

Internet Protocol (TCP/IP) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

◉ Obtain an IP address automatically
○ Use the following IP address:

IP address:
Subnet mask:
Default gateway:

◉ Obtain DNS server address automatically
○ Use the following DNS server addresses:

Preferred DNS server:
Alternate DNS server:

Advanced...

OK | Cancel

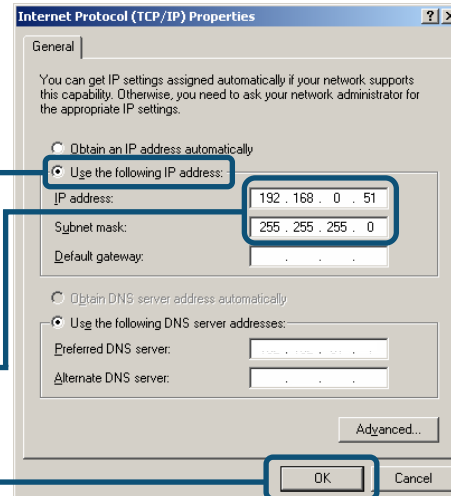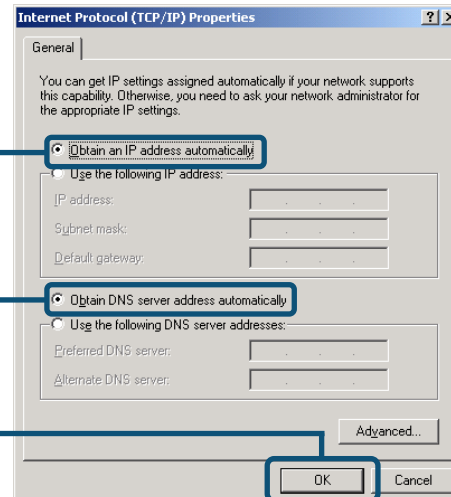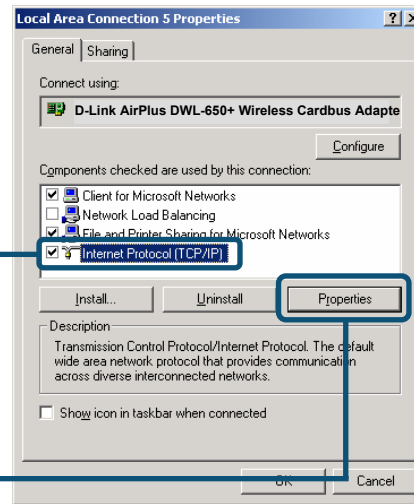Setup for wireless router or Access Point using **Static IP address.**

Select Use the following IP address (if the Wireless Router or Access Point <u>does not</u> have DHCP server enabled)

Input a static IP address on the same network, which will correspond with the Wireless Router or Access Point.

IP address: 192.168.0.51
Subnet mask: 255.255.255.0

Your Internet service provider provides preferred DNS server information.

Click OK

Internet Protocol (TCP/IP) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
◉ Use the following IP address:

IP address: 192 . 168 . 0 . 51
Subnet mask: 255 . 255 . 255 . 0
Default gateway:

○ Obtain DNS server address automatically
◉ Use the following DNS server addresses:

Preferred DNS server:
Alternate DNS server:

Advanced...

OK | Cancel

Technical Support

You can find software updates and user documentation on the D-Link website.

D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product.

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

Tech Support for customers within the United States:

D-Link Technical Support over the Telephone:
(877) 453-5465
24 hours a day, seven days a week.

D-Link Technical Support over the Internet:
http://support.dlink.com
email:support@dlink.com

Tech Support for customers within Canada:

D-Link Technical Support over the Telephone:
(800) 361-5265
Monday to Friday 8:30am to 9:00pm EST

D-Link Technical Support over the Internet:
http://support.dlink.ca
email:support@dlink.ca

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