# D-Link DP-G321
## *Air*Plus G
## Wireless Print Server

# Manual

**D-Link**®

**Building Networks for People**

# Contents

# Package Contents

## Contents of Package:

- **D-Link DP-G321** Wireless Multi-port Print Server
- Manual and Warranty on CD
- Printed *Quick Installation Guide*

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

## System Requirements:

- A computer with an installed Ethernet adapter for initial configuration purposes only

- Windows XP/2000/Me/98SE, Mac OS with AppleTalk , or Linux

- A computer or a network of computers with wireless capability

- Internet Explorer 6.0, or Netscape Navigator version 6.0 or above, with JavaScript enabled

- The printer must support the required Operating System

# Introduction

The D-Link DP-G321 Print Server is an 802.11g wireless Multi-Port Print Server that allows you to connect your USB printer or parallel printer directly to your network. Now you can locate printer services virtually anywhere in your home or office. The DP-G321 manages the flow of print files from workstations or file servers to connected printers, delivering print jobs to printers much faster than a file server on a PC.

The DP-G321 includes easy-to-use software to install on most Windows-based networks. Protocol support for TCP/IP, NetBEUI, and AppleTalk are provided to ensure seamless connection to major networking operating systems.

The DP-G321 has a built in Web-based management feature that allows users to easily configure and manage print queues through TCP/IP.

The DP-G321 provides a 10/100Mbps auto-sensing Ethernet port, allowing flexible attachment to either 10BaseT or 100BaseTX networks. With two USB 2.0 ports and one standard parallel port, the DP-G321 is an ideal wireless high-speed Print Server for a home or office that has multiple printers.

The DP-G321 improves network printing services in the following ways:

- The DP-G321 delegates print jobs to the network printer. This provides workload relief to your file servers and allows the file servers' full capacity to be used for file access or other direct services to network users. On peer-to-peer networks, workstations can print directly to the Print Server without increasing the load of another workstation or server.

- The DP-G321's USB 2.0 ports can transmit data to high-speed laser printers much faster than a PC's parallel printer port. With a separate parallel port, you will still have the option to use a standard parallel printer with the DP-G321.

- Because the DP-G321 is very portable and inexpensive compared to a PC-based print server, and the Print Server connects to your file servers through the network, printers can be deployed to locations of maximum convenience to users.

The DP-G321 offers extraordinary flexibility, operating with all major network operating systems and protocols:

■ **TCP/IP**
UNIX lpr/lpd
Windows NT/2000, Windows 95/98SE/Me, Windows XP
NetWare 5.x NDPS LPR Remote Printing

■ **NetBEUI**
Windows 2000/XP, Windows 95/98SE/Me, Microsoft LAN Manager, IBM LAN Server

■ **AppleTalk**
MacOS EtherTalk

Windows-based setup and administration software, *PS Admin*, is supplied with the Print Server, making configuration and management quick and easy. The Print Server also supports configuration and management via the Telnet protocol for networks without Windows-compatible systems.

# External Features

## *Port Connectors*

The DP-G321's two USB ports and parallel port are located on its rear panel. The printer port can be configured using the *PS Admin* program or the print server's Telnet interface. (See the *PS Admin User's Guide*, available on the CD that came with the DP-G321, for information about configuring the print server's ports.) The Print Server also supports web configuration permitting users to configure settings through the web browser. The default IP Address is as follows:

■ Default IP Address – 192.168.0.10

■ Subnet Mask – 255.255.255.0

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**Note:**
The PC's IP Address must be in the same subnet as the Print Server's IP Address for the two devices to communicate. (For example, if your Print Server's IP Address is 192.168.0.10, with a subnet mask of 255.255.255.0, then your computer's IP Address should be 192.168.0.x, where x is a value between 1-254, excluding 10.)

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# Front Panel LED Indicators

There are two front panel indicators, each holding two separate LEDs (aligned in a vertical position). As shown below, the first indicator holds the Power and the USB LED. The second indicator holds the Ethernet and WLAN LED. Upon boot-up, the Power light stays on continuously and all other LEDs light up momentarily one-by-one, then turn off.

■ **Power**

A steadily lit LED indicates proper operation of the Print Server.

■ **Link/Activity**

A steadily  lit LED indicates proper network connection; no lit LED indicates an unsuccessful network connection. A blinking LED indicates activity (configuration or printing).

■ **WLAN**

A steadily lit LED indicates a proper wireless network connection; no lit LED indicates an unsuccessful wireless network connection. A blinking LED indicates activity (configuration or printing).

■ **USB1**

A steadily lit LED indicates that the Print Server is transferring print data  to the USB1 printer port.

■ **USB2**

A steadily lit LED indicates  that the Print Server is transferring print data  to the USB2 printer port.

■ **LPT**

A steadily lit LED indicates  that the Print Server is transferring print data  to the parallel printer port.
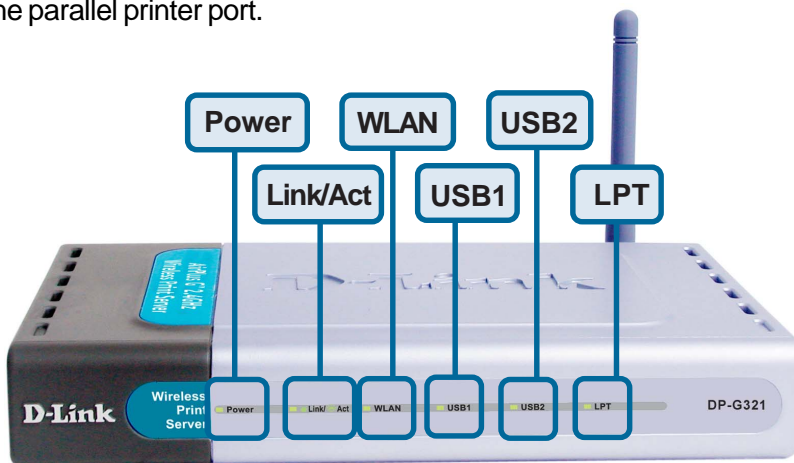
# Rear Panel Connectors

■ **Network Cable Connector**

The Print Server's rear panel has a LAN port for CAT5 Ethernet cabling. The port supports the NWay protocol, allowing the Print Server to automatically detect or negotiate the transmission speed of the network.

**DC Power Connector**

■ The DC power input connector is located on the Print Server's rear panel and is labeled DC 5V.

**Antenna**

**USB2**

**LPT**

**LAN**

**USB1**

**Power**

**Reset**
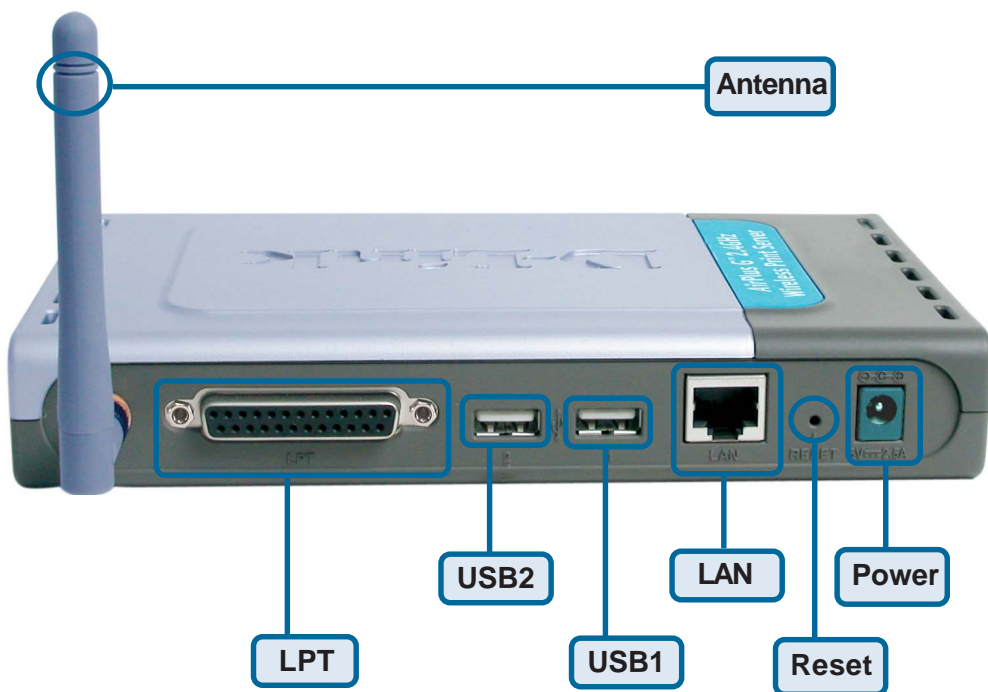
# Wireless Basics

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. D-Link wireless products will allow you access to the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking brings.

A wireless LAN (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. WLANs 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.

*People use wireless LAN technology for many different purposes:*

**Mobility -** Productivity increases when people have access to data in any location within the operating range of the WLAN. Management decisions based on real-time information can significantly improve worker efficiency.

**Low Implementation Costs –** WLANs are easy to set up, manage, change, and relocate. Networks that frequently change can benefit from WLANs ease of implementation. WLANs can operate in locations where installation of wiring may be impractical.

**Installation and Network Expansion** - Installing a WLAN system can be fast and easy and can eliminate the need to pull cable through walls and ceilings. Wireless technology allows the network to go where wires cannot go - even outside the home or office.

**Scalability** – WLANs can be configured in a variety of topologies to meet the needs of specific applications and installations. Configurations are easily changed and range from peer-to-peer networks suitable for a small number of users to larger infrastructure networks to accommodate hundreds or thousands of users, depending on the number of wireless devices deployed.

**Inexpensive Solution** - Wireless network devices are as competitively priced as conventional Ethernet network devices.

# Wireless Basics (cont.)

## Standards-Based Technology

Based on the IEEE **802.11g** standard, the DP-G321 is interoperable with existing compatible 2.4GHz wireless technology with data transfer speeds of up to 54Mbps when used with other D-Link *Air*Plus G devices.

## Installation Considerations

The D-Link *Air*Plus G DP-G321 lets you print through your network, using a wireless connection, from virtually anywhere within its operating range. 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 antenna of the DP-G321 in an upright position.

2. Keep the number of walls and ceilings between the DP-G321 and other network devices to a minimum - each wall or ceiling can reduce your D-Link wireless product's range from 3-90 feet (1-30 meters). Position your devices so that the number of walls or ceilings is minimized.

3. 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). Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.

4. Building materials can impede the wireless signal - a solid metal door or aluminum studs may have a negative effect on range. Try to position wireless devices and computers with wireless adapters so that the signal passes through drywall or open doorways and not other materials.

5. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate extreme RF noise.

# Setting up the DP-G321

## Installing the Print Server

*WARNING: Configuration problems may result if the Print Server is powered up without first establishing its network connection. Follow this procedure to avoid complications at the configuration stage.*

1. Confirm proper operation of your printer before connecting the DP-G321.

2. When you have confirmed proper operation of your USB or parallel printer, turn your printer power **OFF**.

3. Confirm that your network is operating normally.

4. Connect the DP-G321 to your network, using a straight-through CAT5 cable.

5. While the printer is powered **OFF**, use the USB or parallel printer cable to connect the DP-G321 to your printer.

6. Switch **ON** your USB or parallel printer.

7. Plug the DC power adapter into the DC 5V power socket on the rear panel of the Print Server.

8. Plug the power adapter into a power outlet. This will supply power to the DP-G321, as it has no external power switch. The green Power LED on the Print Server's front panel should illuminate steadily, and the Print Server's Self-Test will proceed.

# Power ON Self-Test

*Every DP-G321 has been factory-tested to operate properly.*

When the DP-G321 is powered **ON**, it also automatically performs a Self-Test on each of its major components. The final result of the Self-Test is signaled by the state of the USB LED indicator following the Self-Test. Preliminary to the actual component tests, the LED indicators are tested to confirm their steady and flashing operation.

Immediately after power-up, three of the green LEDs should illuminate steadily for several seconds. Then the USB LED should flash three times. Irregularity of the LED during this LED test may mean there is a problem with the LED itself.

The actual component tests immediately follow the LED tests. A normal (no fault) result is signaled by a flashing of the USB LED, followed by a darkened LED.

If the Self-Test routine detects any component error, then following the LED tests the Self-Test will halt and the LEDs will continuously signal the error according to the following table.

| USB LED | Faulty Component |
|---|---|
| low speed flashing | Need to reload firmware |
| steady **ON** | DRAM error |
| 1 long  2 short | Timer INT error |
| 1 long  3 short | Flash Protected |
| 1 long  5 short | Flash Erase/Program error |
| 1 long  6 short | LAN Controller error |
| 1 long  7 short | LAN memory error |
| 1 long  11 short | LAN I/O base error |
| 1 long  15 short | Wireless LAN card detect error |
| 1 long  16 short | Wireless LAN card CIS error |
| 1 long  17short | Wireless LAN card I/O  error |
| 1 long  18 short | USB error |

# Using the Web Configuration

Please use an Ethernet connection for the configuration of the DP-G321. Using a CAT5 cable, connect the DP-G321 to the Ethernet-adapter equipped computer in your network that you will be using for configuration. Open your web browser and type **http://192.168.0.10** in the address box, and press **Enter**. This set of numbers is the default IP Address of your Print Server. *Please note that the PC's IP Address must correspond with the Print Server's IP Address in the same segment for the two devices to communicate.*
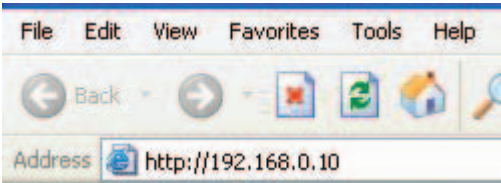


When you enter the default IP address, the main screen of the Print Server's configuration will appear (see below). In addition to the product information, you can access and control the Print Server's configuration through four links on the top of this main screen: **Home**, **Configuration**, **Tools**, and **Help**.
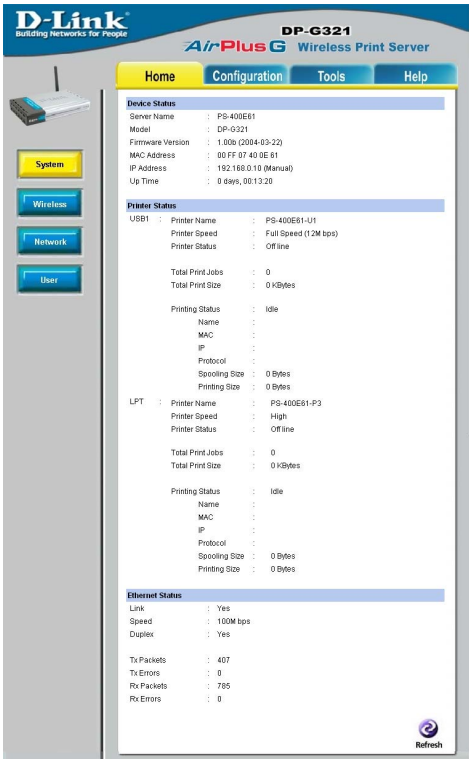
# Using the Web Configuration (continued)
# Home

Click on the **Home** tab from the tools bar of the main screen to display information about the DP-G321's **System Status** and **Printer Status**.

## Home > System

As shown here, the System displays the status of your print server, printer, and network. Clicking Refresh will update the information.

**Device Status:** Information about the print server, including the firmware version, MAC/IP address, and the "up time" can be found in this field.

**Printer Status:** The items in this field display information about the printer, such as the given name of the printer, speed, printer status, and the status of your printing tasks, etc.

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DP-G321
*Air*Plus G Wireless Print Server

| Home | Configuration | Tools | Help |

System
Wireless
Network
User

**Device Status**
| | |
|---|---|
| Server Name | : PS-400E61 |
| Model | : DP-G321 |
| Firmware Version | : 1.00b (2004-03-22) |
| MAC Address | : 00 FF 07 40 0E 61 |
| IP Address | : 192.168.0.10 (Manual) |
| Up Time | : 0 days, 00:13:20 |

**Printer Status**
| | | | |
|---|---|---|---|
| USB1 | : | Printer Name | : PS-400E61-U1 |
| | | Printer Speed | : Full Speed (12M bps) |
| | | Printer Status | : Off line |
| | | Total Print Jobs | : 0 |
| | | Total Print Size | : 0 KBytes |
| | | Printing Status | : Idle |
| | | Name | : |
| | | MAC | : |
| | | IP | : |
| | | Protocol | : |
| | | Spooling Size | : 0 Bytes |
| | | Printing Size | : 0 Bytes |
| LPT | : | Printer Name | : PS-400E61-P3 |
| | | Printer Speed | : High |
| | | Printer Status | : Off line |
| | | Total Print Jobs | : 0 |
| | | Total Print Size | : 0 KBytes |
| | | Printing Status | : Idle |
| | | Name | : |
| | | MAC | : |
| | | IP | : |
| | | Protocol | : |
| | | Spooling Size | : 0 Bytes |
| | | Printing Size | : 0 Bytes |

**Ethernet Status**
| | |
|---|---|
| Link | : Yes |
| Speed | : 100M bps |
| Duplex | : Yes |
| Tx Packets | : 407 |
| Tx Errors | : 0 |
| Rx Packets | : 785 |
| Rx Errors | : 0 |

Refresh

**Ethernet Status:** You can monitor the networking status in this field, including the network connection, speed, and the packets status.

# Using the Web Configuration (continued)

## Home > Wireless

Click the **Wireless** button in the left column to display information about the wireless LAN. Clicking **Refresh** will update the information.



**Wireless Status:** The items in this field display information about the wireless LAN, such as the connection mode (Infrastructure or Ad-Hoc), SSID, channel, data transfer rate, WEP encryption, and the packets status.

# Using the Web Configuration (continued)

## Home > Network

Click the **Network** button in the left column to display information about the wireless LAN. Clicking **Refresh** will update the information.

**Auto IP:** This field contains the current settings of TCP/IP, including DHCP/BOOTP, UPnP, and MAC Rendezvous. The items in this field are configured in **Configuration > Network > TCP/IP**.

**TCP/IP Printing:** In this field, you can monitor the status of your printing tasks through TCP/IP.



**Microsoft Network Printing:** In this field, you can monitor the status of your printing tasks through Microsoft Network.

**Mac AppleTalk Printing:** In this field, you can monitor the status of your printing tasks through Mac AppleTalk.

# Using the Web Configuration (continued)

## Home > User

Click the **User** button in the left column to display the user's information.



**Users Printing Log:** The items in this field display the user(s) information, which include the user(s) Mac address, IP address, name, and status of printing tasks.

# Configuration

Click on the **Configuration** tab from the tools bar of the main screen to enter the configuration page; it provides the configuration options that include **System Device** and **Port Setting**.

## System Device and Port Setting

This option will show you settings required to configure the DP-G321 Print Server. Consult your printers owner manual for the PJL (Printer Job Language) and print speed supported on your printer. Click the **Save** button on the bottom of the configuration page to ensure the settings are updated and saved.

# Using the Web Configuration (continued)
## Configuration > System Device and Port Setting

### System Device

In this field, you can configure the basic information of your print server.

**Server Name:** Assign a name to the print server.

**Location (optional):** Assign a location for the print server.

**Admin contact (optional):** Assign the Admin's contact name for the print server.

**Password:** Enter the Administrator password (3-8 characters). To set up the password, please enter the password in the **New** Password box, and then enter the same one again in the **Confirm Again** box.

### Port Settings

In this field, you can assign the **Port Name** for the print server, and the description for the USB or printer ports. It also allows you to select the **PJL Printer** setting (Yes or No).

**NOTE:** PJL (Print Job Language) has certain job requirements that must be met to work correctly. for more information, please refer to your printer's manual.

## Configuration > Wireless

# Using the Web Configuration (continued)

## Configuration > Wireless

### Wireless Interface

**Connection Mode:** Select one of two connection modes:

- Infrastructure (default): Connect to an existing wireless AP or router in a WLAN.

- Ad-Hoc: Connect to wireless clients in the Peer-to-Peer mode.

**SSID:** Assign the SSID in this box. You can manually input the name or select one from the pull-down menu. To search the available print server within the network, click the **Site Survey** button.

**Wireless Channel:** Select the channel from the pull-down menu. The default setting is **6**.

**Transmission Rate:** Select the data transmit rate from the pull-down menu. The default setting is **Fully Automatic**.

### WEP Encryption

This field allows you to configure the settings of data encryption. Please remember that the WEP key must be set before the data encryption is enforced.

**WEP Encryption:** This option allows you to select **Disable**, **64-bit**, and **128-bit** for encryption setting.

**WEP Key Format:** You can decide the network key to be encoded by ASCII (ASCII characters) or HEX (hexadecimal digitals). 64-bit WEP encryption uses a 10 hexadecimal character key. The WEP encryption key must match the WEP settings on your AP or wireless router to connect properly.

Then, enter the key(s) for the network in the Key box (1-4).

### Advanced Setting

**Beacon Interval:** Enter the number for the beacon interval in milliseconds.

**Preamble:** This option allows you to set the length of the preamble. Setting options are:

- Long: set to 144 bits
- Short: set to 72 bits.

**Authentication Type:** You can set the authentication type by selecting the settings: Open System, Shared Key, and Both.

# Using the Web Configuration (continued)

## Network



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DP-G321

**AirPlus G** Wireless Print Server

| Home | **Configuration** | Tools | Help |

System
Wireless
**Network**
User
SNMP

**TCP/IP**

IP Address :
- ● Manually Assign
  - IP Address : 192.168.0.10
  - Subnet Mask : 255.255.255.0
  - Default Gateway : 192.168.0.1
- ○ Automatically Assign

DNS Server Address :
1. 4.2.2.2
2. 0.0.0.0

UPnP : ● Enable ○ Disable

MAC Rendezvous : ● Enable ○ Disable

Second HTTP Port : ○ Enable ● Disable
Port Number : 0
(For Remote Web Configuration and IPP Printing)

**Microsoft Network**

Workgroup : WORKGROUP

**AppleTalk**

AppleTalk Zone : *

USB1 : Chooser Name : PS-400E61-U1
- Printer Type : LaserWriter
- PostScript Level : Level 2
- Font Group : Standard 35

USB2 : Chooser Name : PS-400E61-U2
- Printer Type : LaserWriter
- PostScript Level : Level 2
- Font Group : Standard 35

LPT : Chooser Name : PS-400E61-P3
- Printer Type : LaserWriter
- PostScript Level : Level 2
- Font Group : Standard 35

Apply  Cancel

# Using the Web Configuration (continued)

## Configuration > Network

### TCP/IP

This field contains three options that allow you to configure the TCP/IP setting:

**IP Address:** This option allows you to set the IP address manually or automatically. When you choose **Manually Assign**, you should enter the related information in the following boxes, including **IP Address**, **Subnet Mask**, and **Default Gateway**.*

**DNS Server Address:*** Input the DNS (Domain Name Server) IP address provided by your ISP.

*These entries must be filled to enable E-mail base printing.*

**UPnP:** This option allows you to enable or disable UPnP mode.

**MAC Rendezvous:** This option allows you to enable or disable MAC Rendezvous mode.

**Second HTTP Port:** Select **Enable** or **Disable**.

**Port Number:** Enter the Port Number if you have enabled the Second HTTP Port. (For remote Web configuration and IPP printing.)

### Microsoft Network

Enter the name of the Workgroup that you want the print server associated with in this field.

### AppleTalk

Enter the AppleTalk Zone name in the box. In the following options, enter the related configuration, such as the printer type.

### USB1 / USB2 / LPT

**Chooser Name:** Display the print server name.

**Printer Type**: Enter the printer's type in this box.

**PostScript Level:** Select from the pull-down menu (Level 1 or Level 2).

**Font Group:** Select from the pull-down menu.

**TIP:** Once you have changed the settings in each option, click Apply to store the settings.

# Using the Web Configuration (continued)

## Configuration > User



**Printing Control**

By configuring the **Enable User Printing Control** option (*Yes* or *No*), the user in the User List is permitted to access the print server or not.

**Define Users**

You can add/delete the user(s) to/from the User List. The User List at the bottom of the screen displays the current defined user and related information for the print server.

Click **Apply** to save the changes.

# Using the Web Configuration (continued)

## Configuration > SNMP



### SNMP Management

SNMP (Simple Network Management Protocol) is a set of protocols for managing complex networks.

**Community 1/2/3:** Enter a name in the **Name** box, and configure the **Access Right** by selecting **Read Only** or **Read/Write** from the pull-down menu.

Click **Apply** if you have made changes.

# Using the Web Configuration (continued)

## Tools

Click on the **Tools** link from the tools bar of the main screen to enter the Tools Page; it provides the control options that include **Print Test**, **E-mail**, **Reset**, **Upgrade**, and **Backup**.

### Tools > Print Test



### Print Test
Click **Test** to print a test page from the selected USB or parallel port.

# Using the Web Configuration (continued)

## Tools > Email



### E-mail Account

You can assign an E-mail address to the print server, so that the print server can send out mail to administrator directly through the print server if any change is made. Enter the E-mail account in the **Print Server E-mail Address** box to enable this.

**Outgoing E-mail (SMTP) Server Address:** Enter the server address that is used to send your E-mail in this box.

If your mail server needs to verify the user when sending E-mail, the DP-G321 will apply the same Account Name and Password to the mail server as it does when receiving E-mail.

### E-mail Notification

You can set the print server to send a message through E-mail when the printer status changes. To enable this function, set the **Enable e-mail notification for printer status changing** option to **Yes**. Then, input the administrator's E-mail address in the **Admin E-mail Address** box.

# Using the Web Configuration (continued)

## Tools > Reset
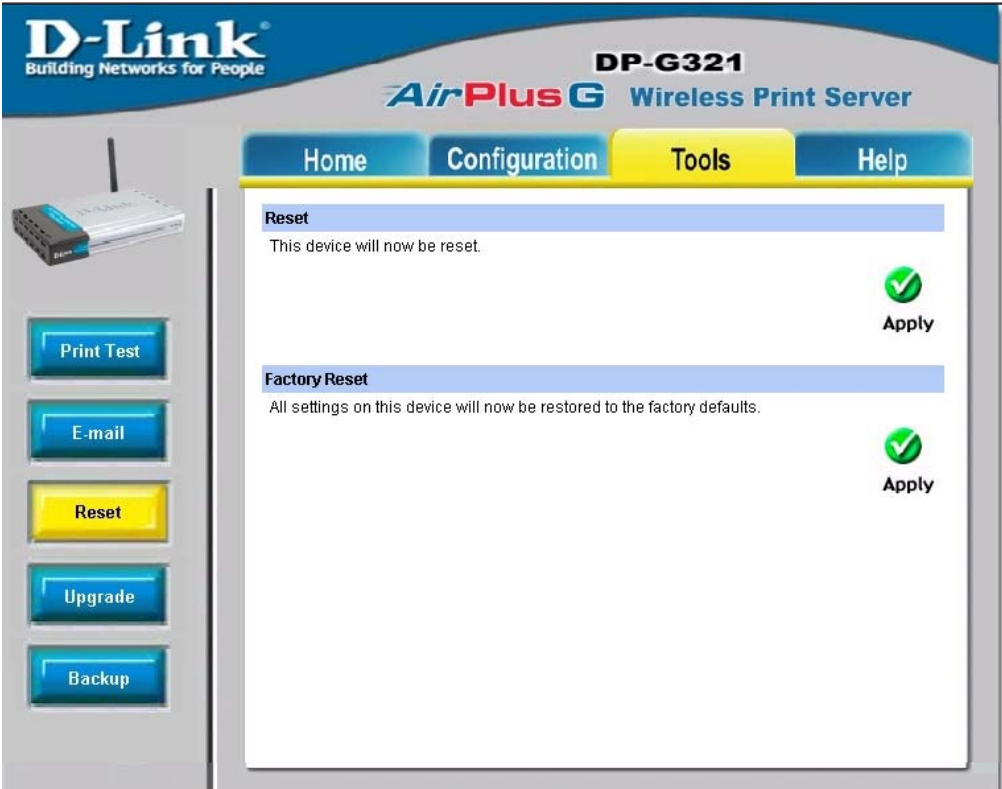


### Reset
Click **Apply** to immediately reset the print server.

### Factory Reset
Click **Apply** to reload the factory default settings of the print server.

# Using the Web Configuration (continued)

## Tools > Upgrade
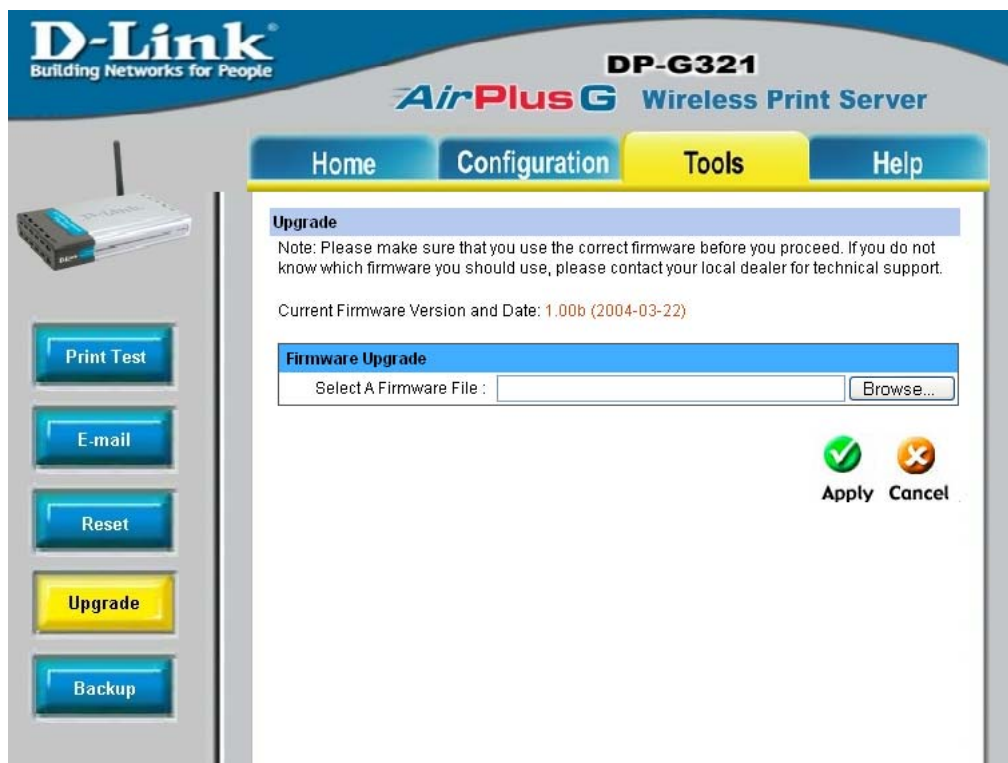


### Firmware Upgrade
When a new version of firmware is available (e.g., downloaded from the manufacturer's website), you can upgrade the firmware of your print server. Click **Browse** to locate the firmware file, then click **Apply**.

# Using the Web Configuration (continued)

## Tools > Backup



## Backup Device Configuration to File
Click **Apply** to backup your current configuration of the print server to file and then save in the computer.

## Restore Device Configuration from File
You can reload a configuration that you saved before. Click **Browse** to point to the backup file, and then click **Apply**.

# Using the Web Configuration (continued)

## Help
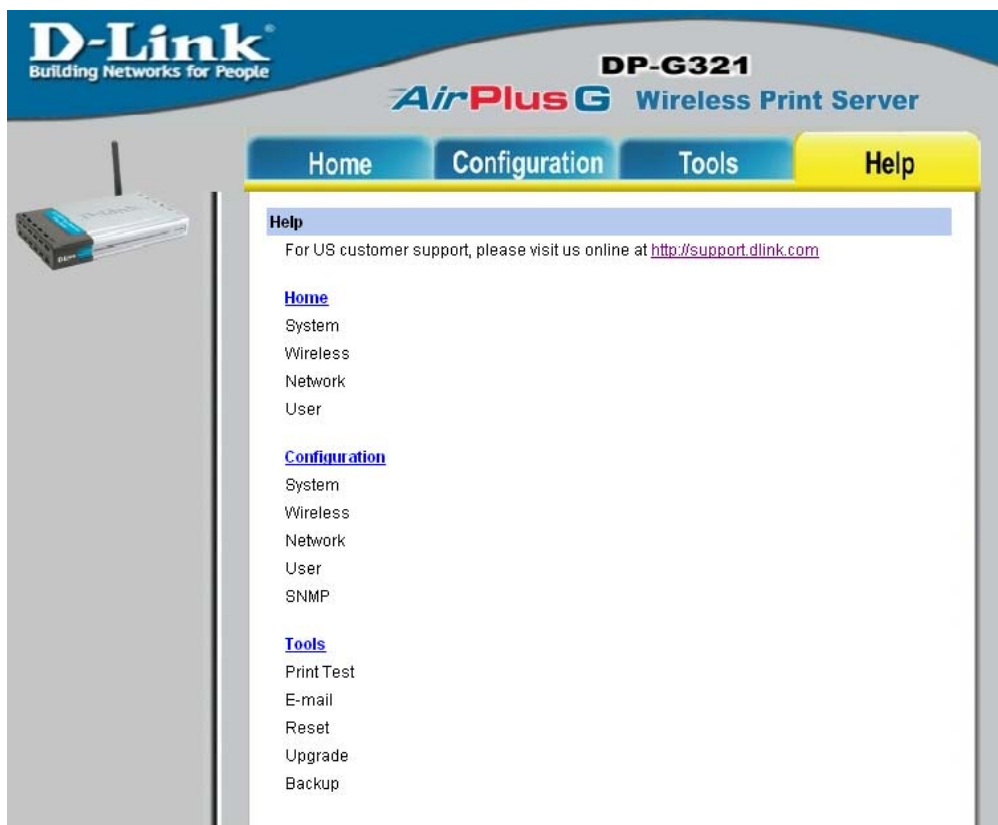


Click on the **Help** link from the tools bar of the main screen to enter the Help Page. This page provides a link to D-Link's support website. D-Link's support website will provide the most up to date information on your DP-G321 Print Server. Please check the website regularly for product and firmware updates. Click on each topic for more information on any screen in the Web Configuration Utility.

# TCP/IP Printing for Windows XP

Open the web browser, and type in the IP Address of the DP-G321.
For example, type **http://192.168.0.10** into the **Location** or **Address** field. Press the **Enter** or **(Return)** Key.

> **Note:**
> The PC's IP Address must be in the same subnet as the Print Server's IP Address for the two devices to communicate. (For example, if your Print Server's IP Address is 192.168.0.10, with a subnet mask of 255.255.255.0, then your computer's IP Address should be 192.168.0.x, where x is a value between 1-254, excluding 10.) See *Networking Basics: Assigning a Static IP Address* in this manual to find out how to change an IP Address.

# TCP/IP Printing for Windows XP *(continued)*

At the **Configuration** window, write down the **Port Names** for future reference. You will need this information later in the configuration process.

Select your **Connection Mode**.

Enter the **SSID** of the remote access point or wireless router you wish to connect to.

If you would like to set **WEP Encryption,** select the encryption level and the key here.

Click **Apply**.

# TCP/IP Printing for Windows XP *(continued)*

When you select **TCP/IP Protocol** at the **Network** window, the screen below appears. (We recommend that you keep the default settings as shown.) If you need to make changes, make sure to click **Apply** after you have made the changes. (You may wish to make a note of the IP address.)

# TCP/IP Printing for Windows XP *(continued)*

Go to **Start > Settings > Printers and Faxes > Add a Printer**

**Printers and Faxes**

File   Edit   View   Favorites   Tools   Help

Back    Search

Address  Printers and Faxes

**Printer Tasks**

Add a printer
Set up faxing

Start the Add Printer Wizard,

**Add Printer Wizard**

Welcome to the Add Printer Wizard

This wizard helps you install a printer or make printer connections.

If you have a Plug and Play printer that connects through a USB port (or any other hot pluggable port, such as IEEE 1394, infrared, and so on), you do not need to use this wizard. Click Cancel to close the wizard, and then plug the printer's cable into your computer or point the printer toward your computer's infrared port, and turn the printer on. Windows will automatically install the printer for you.

To continue, click Next.

< Back    Next >    Cancel

Click **Next**.

# TCP/IP Printing for Windows XP *(continued)*

Select **Local Printer**.

Deselect **Automatically
detect and install my
Plug and Play printer**.

Click **Next**.

Select **Create a new port.** At
the pull-down menu, highlight
**Standard TCP/IP Port.**

Click **Next**.

Click **Next**.

# TCP/IP Printing for Windows XP *(continued)*

Type in the IP address of
the Print Server (i.e.
192.168.0.10). The **Port
Name** will automatically
be filled in.

Select **Custom**.
Then click **Settings**.

Select **LPR**.

Input the Port Name of
the port being used by
the printer.

Click **OK**.

# TCP/IP Printing for Windows XP *(continued)*
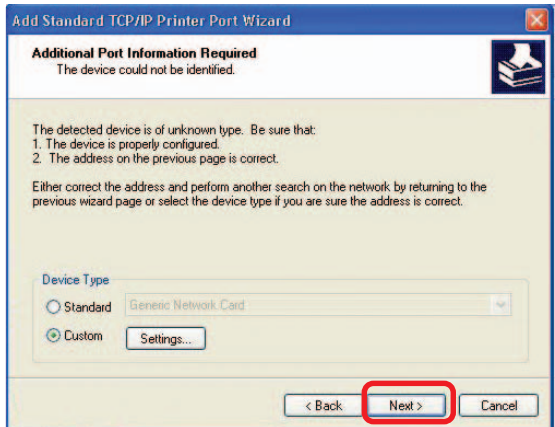
Click **Next**.
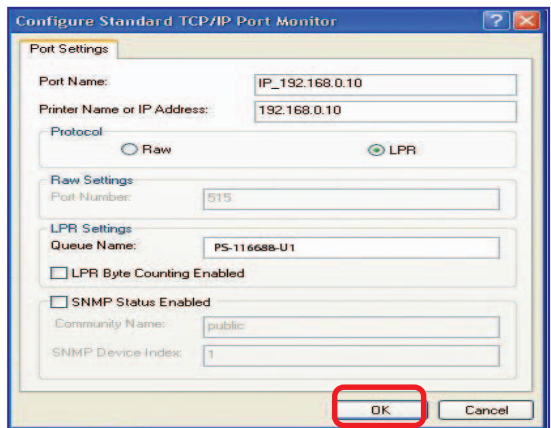
Click **Finish**.

Highlight the printer, as shown. If the desired printer is not on the list, click **Have Disk** and insert the printer driver disk that came with your printer to install the printer drivers.
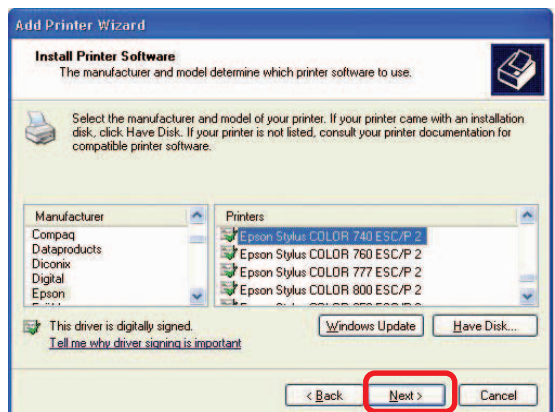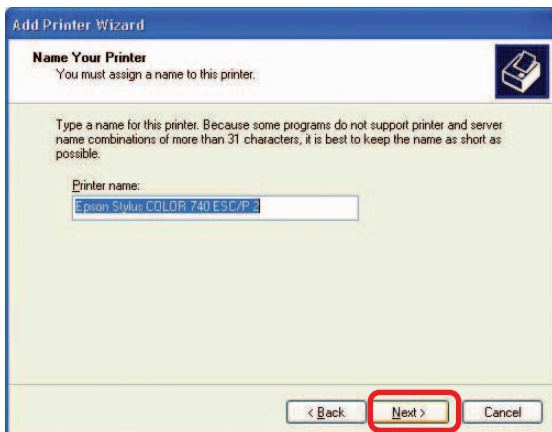
Click **Next**.

# TCP/IP Printing for Windows XP *(continued)*

At this screen, you can input a
name for the printer.

Click **Next**.

Click **Next**.

Click **Finish**.

# TCP/IP Printing for Windows 2000

Open the Web browser, and type in the IP Address of the DP-G321.
For example, type **http://192.168.0.10** into the **Location** or **Address** field. Press the **Enter** or **(Return)** Key.

> **Note:**
> The PC's IP Address must be in the same subnet as the Print Server's IP Address for the two devices to communicate. (For example, if your Print Server's IP Address is 192.168.0.10, with a subnet mask of 255.255.255.0, then your computer's IP Address should be 192.168.0.x, where x is a value between 1-254, excluding 10.)

# TCP/IP Printing for Windows 2000 *(continued)*

At the **Configuration** window, write down the **Port Names** for future reference. You will need this information later in the configuration process.

Select your **Connection Mode**.

Enter the **SSID** of the remote access point or wireless router to which you wish to connect.

If you would like to set WEP Encryption, select the encryption level and the key here.

Click **Apply**.

# TCP/IP Printing for Windows 2000 *(continued)*



When you select **TCP/IP Protocol** at the **Network** window, the screen below appears. (We recommend that you keep the default settings as shown.) If you need to make changes, make sure to click **Apply** after you have made the changes. (You may wish to make a note of the IP Address.)

# TCP/IP Printing for Windows 2000 *(continued)*

Go to **Start > Settings > Printers**.

Double-click on the **Add Printer** icon.



Click **Next**.

# TCP/IP Printing for Windows 2000 *(continued)*
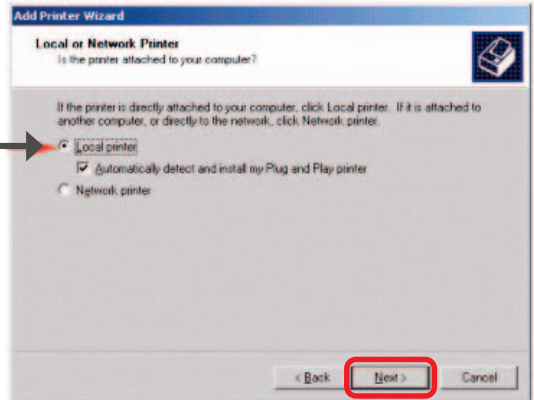
Select **Local Printer**.

Click **Next**.
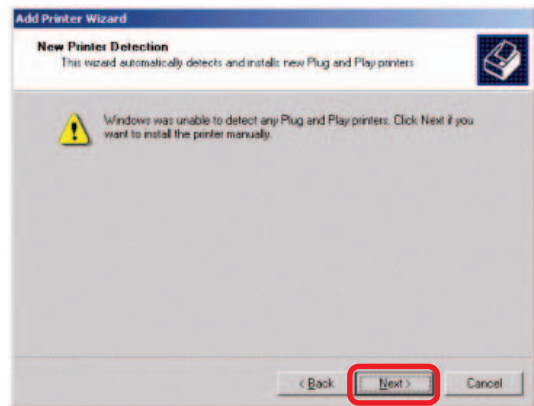
Select **Create a new port** at the pull-down menu, highlight **Standard TCP/IP Port**.
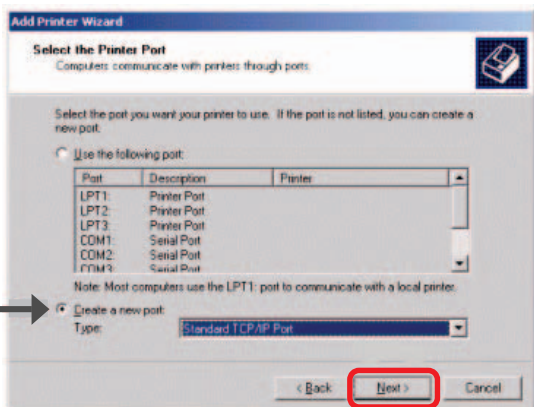
Click **Next**.

# TCP/IP Printing for Windows 2000 *(continued)*

Click **Next**.
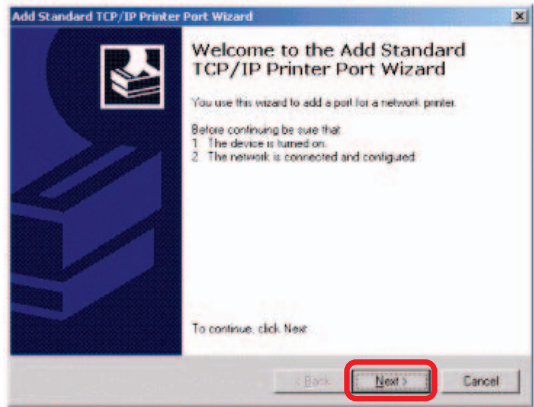
Type in the IP address of the Print Server in the **Printer Name** or **IP Address** field. The **Port Name** field will automatically be filled in.
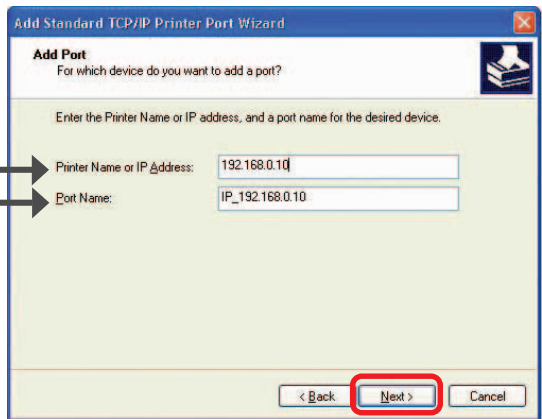
Click **Next**.
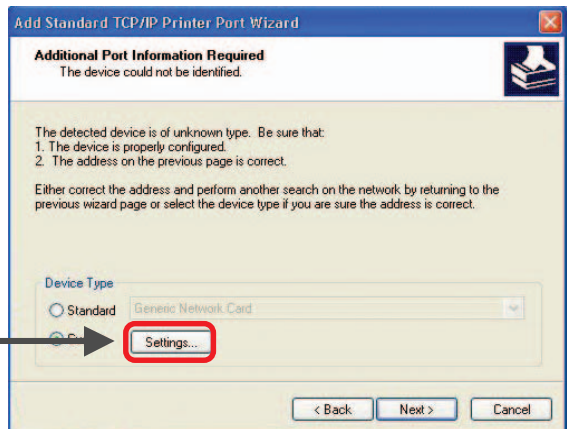
**Select "Custom."**
Then click on **Settings**.

# TCP/IP Printing for Windows 2000 *(continued)*

Select **LPR**.

Input the port name of
the port being used by
the printer.

Click **OK**.

Click **Next**.

Click **Finish**.

# TCP/IP Printing for Windows 2000 *(continued)*

Highlight the printer, as shown. If the desired printer is not on the list, click **Have Disk** and insert the printer driver disk that came with your printer to install the printer drivers.

Click **Next**.

At this screen, you can input a name for the printer.
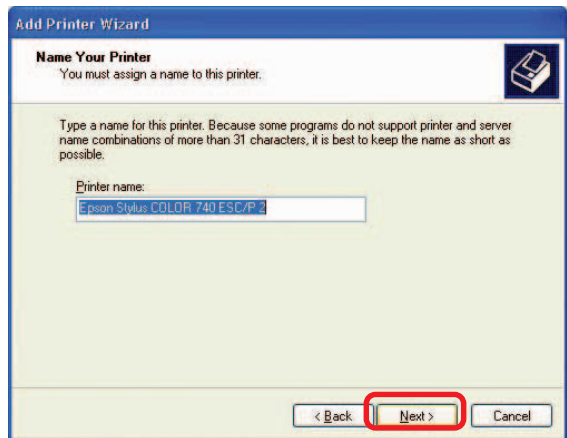
Click **Next**.

# TCP/IP Printing for Windows 2000 *(continued)*

Select **Do not share this printer**.
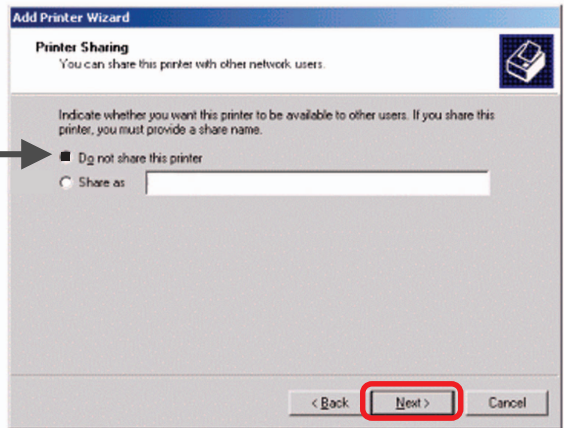
Click **Next**.

Select **Yes** to print a test page.
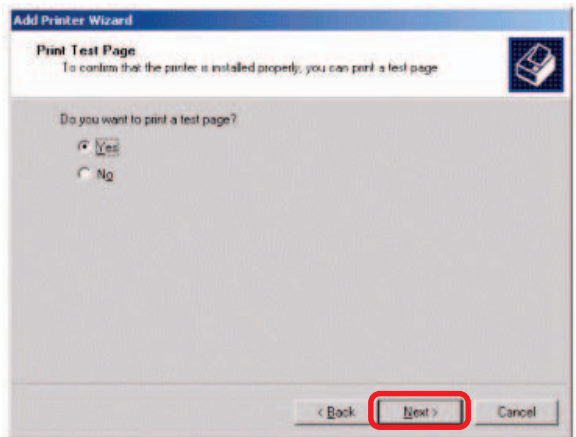
Click **Next**.
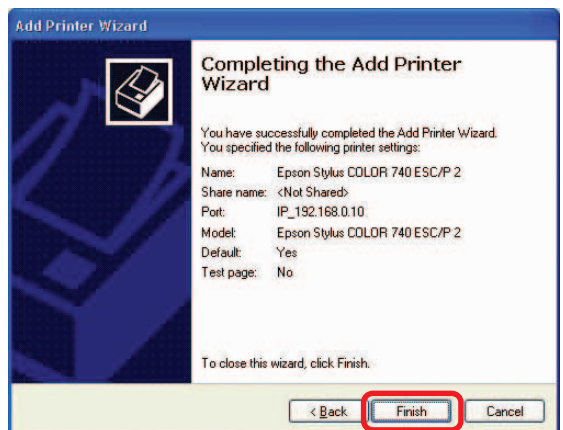
Click **Finish**.

The printer is now ready for printing with Windows 2000 on your network.

# TCP/IP Printing
# for Windows 98SE/Me

Open the web browser, and type in the IP Address of the DP-G321.
For example, type **http://192.168.0.10** into the **Location** or **Address** field. Press the **Enter** or **(Return)** Key.

> **Note:**
> Your PC's IP Address must be in the same subnet as the Print Server's IP Address for the two devices to communicate. (For example, if your Print Server's IP Address is 192.168.0.10, with a subnet mask of 255.255.255.0, then your computer's IP Address should be 192.168.0.x, where x is a value between 1-254, excluding 10.)
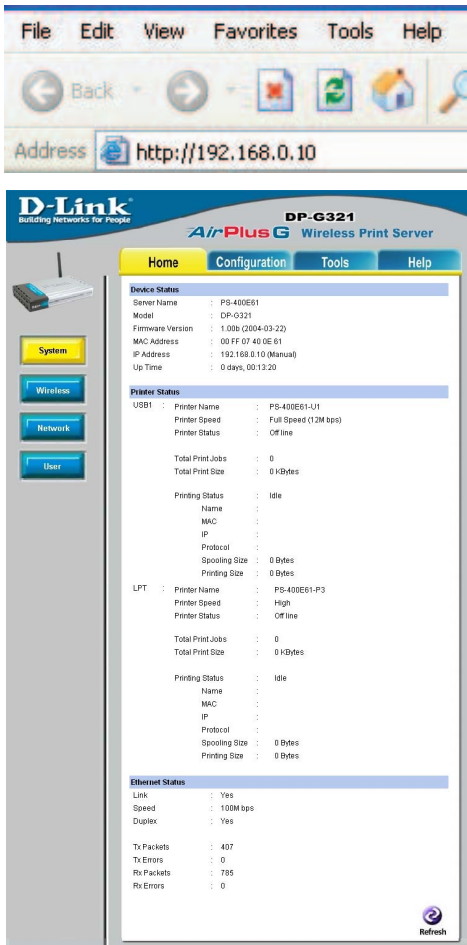
# TCP/IP Printing for Windows 98SE/Me *(continued)*

At the **Configuration** window, write down the **Port Names** for future reference. You will need this information later in the configuration process. The **Port Name** shown here is only an example.

Select your **Connection Mode**.

Enter the **SSID** of the remote access point or wireless router to which you wish to connect.

If you would like to set **WEP Encryption,** select the encryption level and the key here.

Click **Apply**.

When you select **TCP/IP Protocol** at the **Network** window, the screen below will appear. (We recommend that you keep the default settings as shown.) If you need to make changes, make sure to click **Apply** after you have made the changes. (You may wish to make a note of the IP address.)

Go to **Start > Settings > Control Panel**.

Double-click on **Network**.

Click **Add**.

Highlight **Client**.

Click **Add**.

At this window, click **Have Disk**.

1. Insert the DP-G321 CD-ROM into your CD-ROM drive. **Select the letter representing the CD-ROM** drive on your computer from the pull-down menu.

2. Double-click on the folder **lpr**.

3. Highlight **lpr.inf**.

4. Click **OK**.
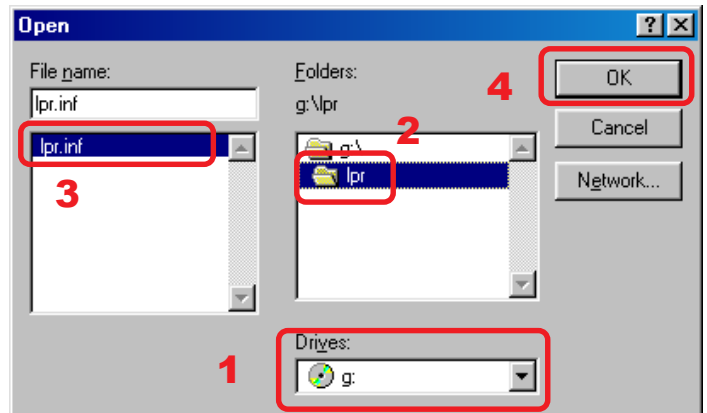
Click **OK** to accept the location of the file.

# TCP/IP Printing for Windows 98SE/Me *(continued)*

**Select Network Client**

Click the Network Client that you want to install, then click OK. If you have an installation disk for this device, click Have Disk.

Models:

LPR for TCP/IP Printing

Have Disk...

Click **OK**.

OK    Cancel

**Network**

Configuration | Identification | Access Control

The following network components are installed:

- Client for Microsoft Networks
- LPR for TCP/IP Printing
- Microsoft Family Logon
- D-Link AirPlus Xtreme G DWL-G650
- Dial-Up Adapter

You should now be back to the **Network Properties** Page. Highlight **LPR for TCP/IP Printing**.

Add...    Remove    Properties

Click **Properties**.

Primary Network Logon:

Microsoft Family Logon

File and Print Sharing...

Description

OK    Cancel

Click **Add Port**.
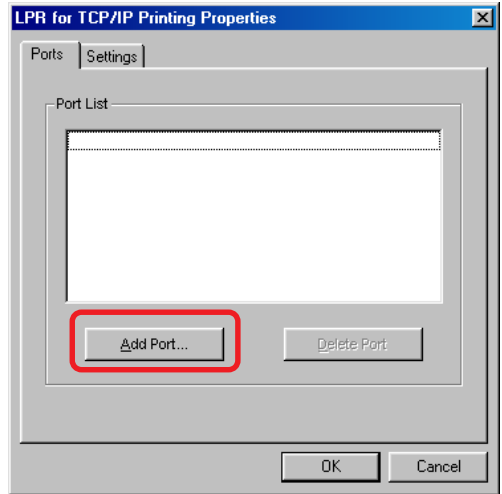
Type in the IP Address of the DP-G321. Make sure the **Port Name** is accurate. (The **Port Name** at right is just an example.)
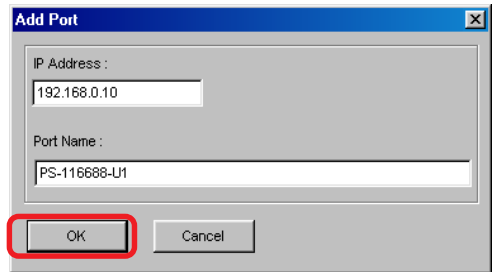
Click **OK**.

The **Port name** and IP Address will be displayed. (The **Port Name** at right is just an example.)

Click **OK**.

# TCP/IP Printing for Windows 98SE/Me *(continued)*

**Network** ?X

Configuration | Identification | Access Control

The following network components are installed:

- Client for Microsoft Networks
- LPR for TCP/IP Printing
- Microsoft Family Logon
- D-Link AirPlus Xtreme G DWL-G650
- Dial-Up Adapter

[ Add... ]  [ Remove ]  [ Properties ]

Primary Network Logon:

Microsoft Family Logon ▼

[ File and Print Sharing... ]

Description

[ OK ]  Cancel
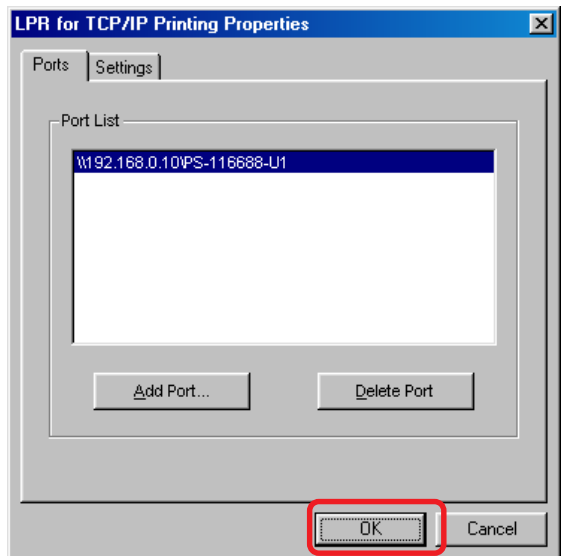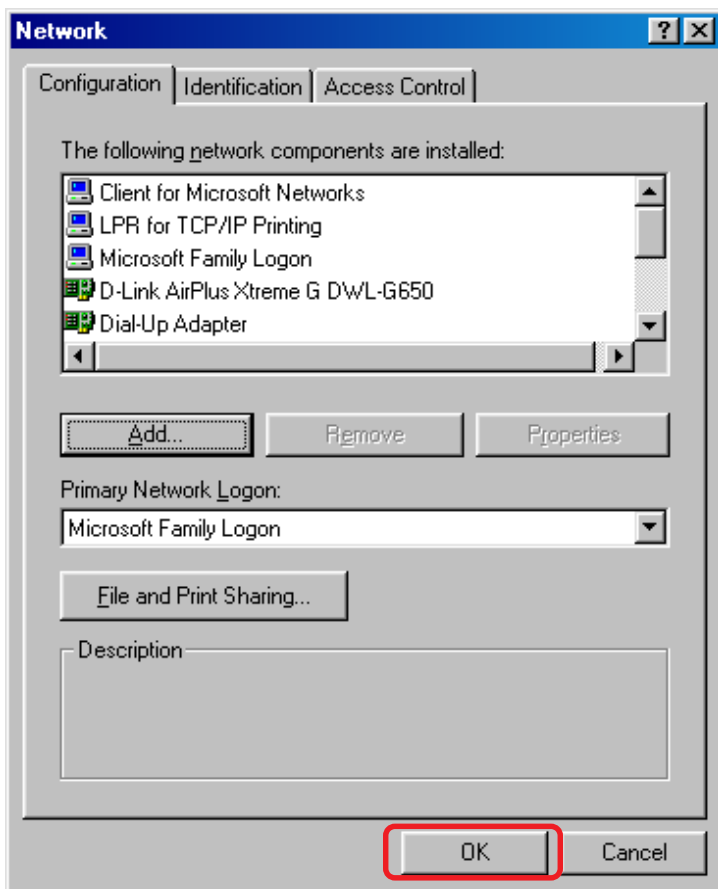
Click **OK**.

Windows will ask for a restart.

**System Settings Change** ✕

You must restart your computer before the new settings will take effect.

Do you want to restart your computer now?

[ Yes ]  No
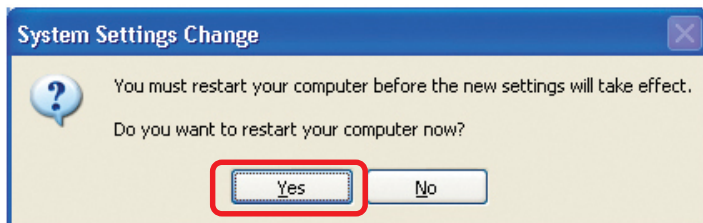
Click **Yes**.

# TCP/IP Printing for Windows 98SE/Me *continued)*

Once your computer has rebooted, click on
**Start > Settings > Printers > Add Printer**.


Add Printer

When the *Add Printer Wizard*
screen appears, click **Next**.

Select **Network Printer**.

Click **Next**.

Type in the path if you know it,
or click **Browse**.

At the next screen, browse for the printer port. Highlight the port as shown. (The **Port Name** in this window is just an example.)

Click **OK**.

If the network path is not specified, type in the IP Address of the DP-G321 and the **Port Name.** (The **Port Name** shown at right is just an example.)

Select **Yes** or **No**, to answer the question: *Do you print from MS-DOS based programs?*

Click **Next**.

Highlight the printer, as shown. If your desired printer is not on the list, click **Have Disk** and insert the printer driver disk that came with your printer to install the printer drivers.

Click **Next**.

Click **Next**.
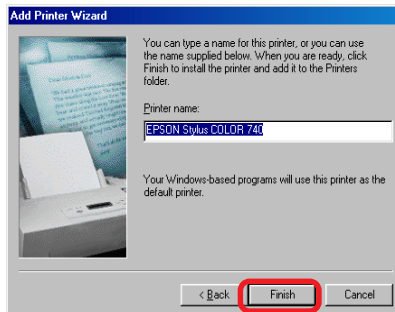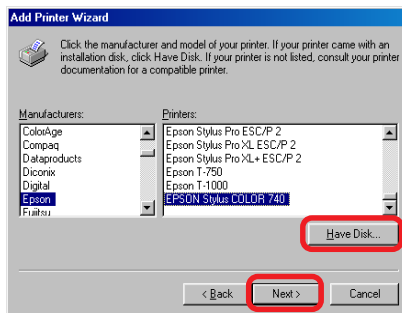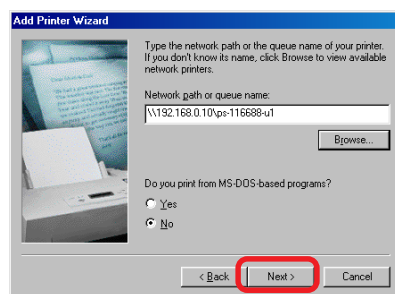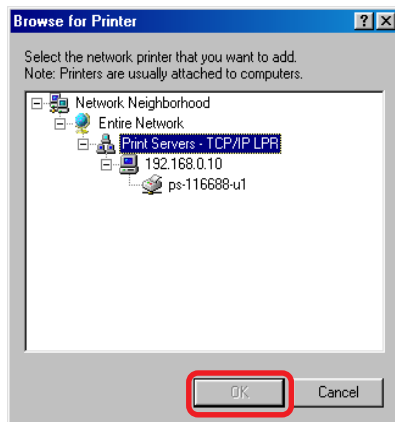
Select **Yes** to print a test page.
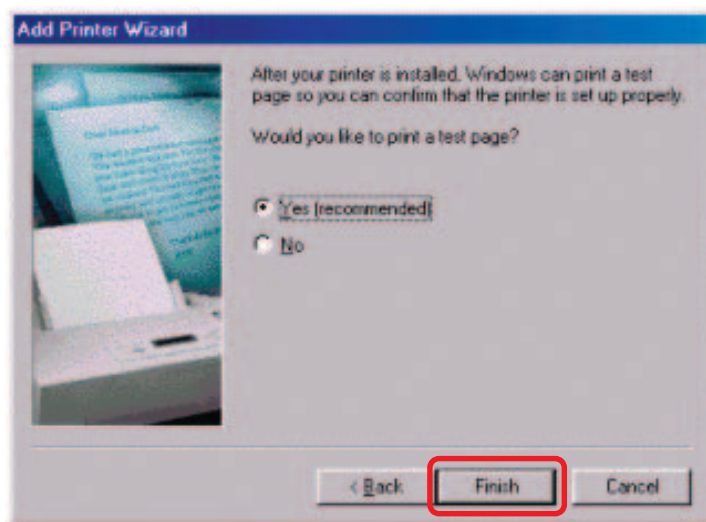
Click **Finish**.



**Go to Start > Settings > Printers**
Check to see that your printer is installed.
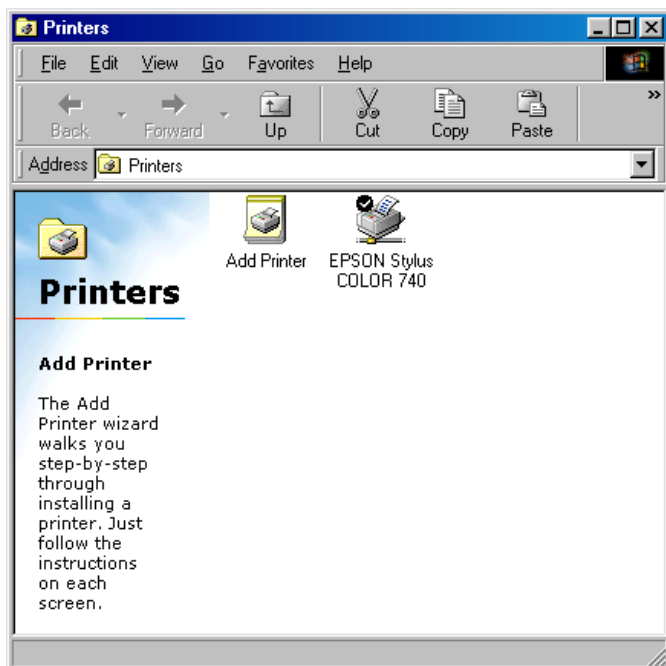
# Unix/Linux Printing

Please refer to the *PS Admin Manual* on the CD included with your purchase for information on setting up the Print Server in Unix/Linux.

# Setting up Apple Talk or LPR Printing *in Mac OS X*

> **Note: Mac OS printing with this print server is supported by PostScript printers only!**

With Mac OSX you can use AppleTalk or LPR printers using IP protocols for printing through Print Servers. Follow the instructions below for setting up the Print Server. After attaching the Print Server to your network using the directions provided in the *Quick Installation Guide,* change the IP address of your Macintosh to access the Print Server's web configuration.

Open your **System Preferences** window and Click **Network**.
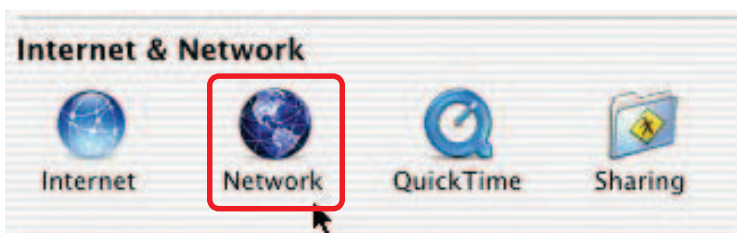
At the **Configure** pull-down menu, select **Manually**.
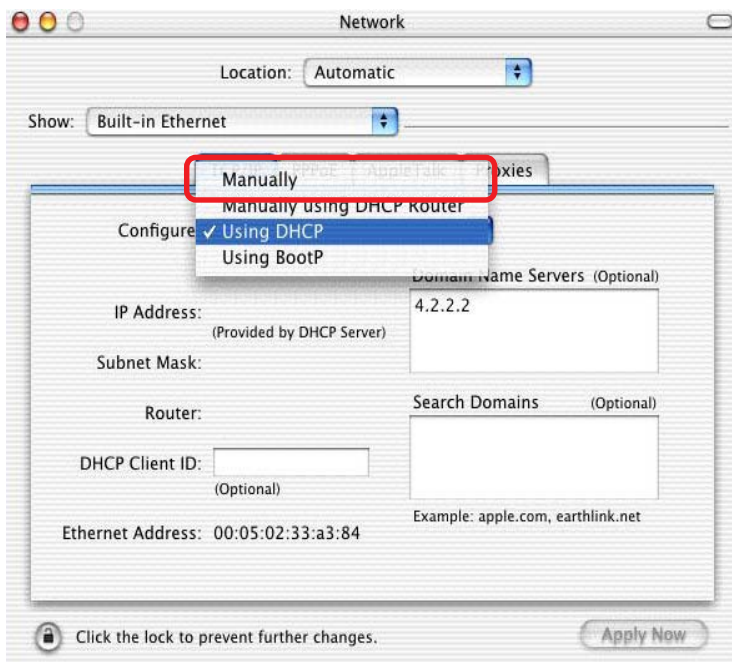
# Setting up Apple Talk or LPR Printing
*in Mac OS X (continued)*

The default IP address of the Print Server is 192.168.0.10. Manually change your IP Address to 102.168.0.x, where x is any number between 1 and 254 (except 10 which is the IP Address of the Print Server.) The IP Addresses and Subnet Mask shown here are examples only.
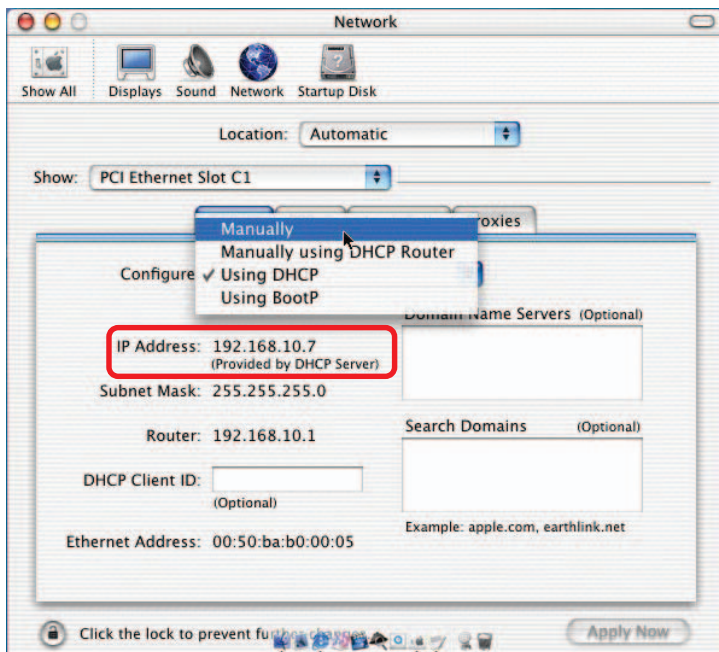


Select the **AppleTalk** tab in this window and check **Make AppleTalk Active**.
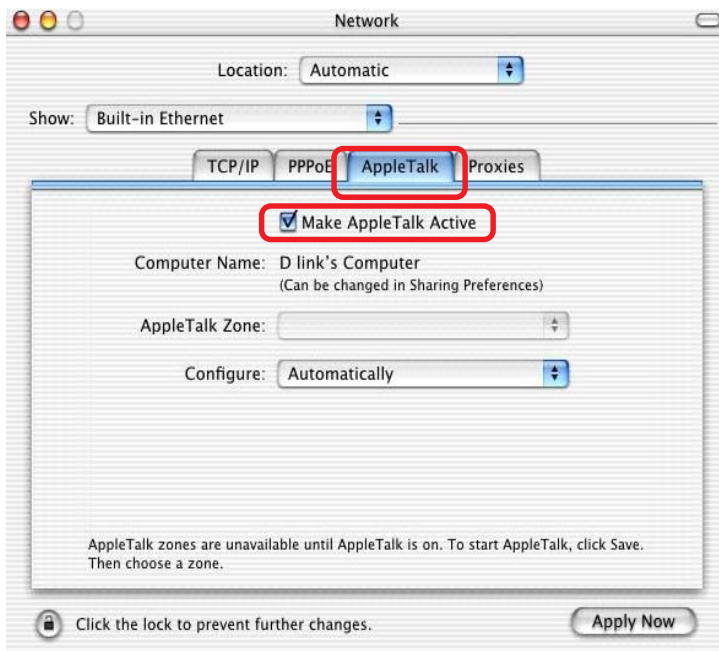
# Setting up Apple Talk or LPR Printing
*in Mac OS X (continued)*

To print, open a document and select **File** > **Print** from the menu.
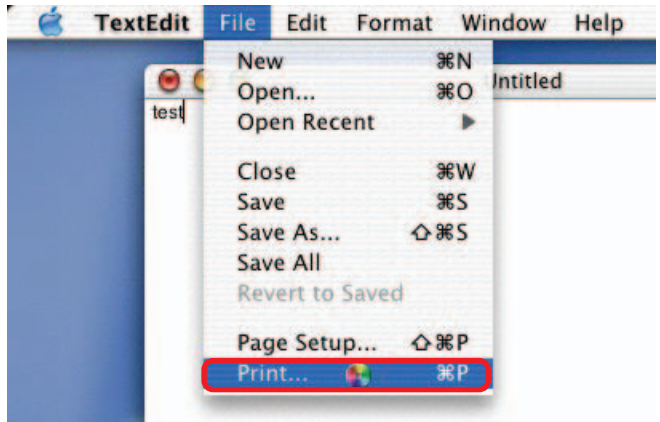
Select **Edit Printer List** from the **Printer** dialog box.
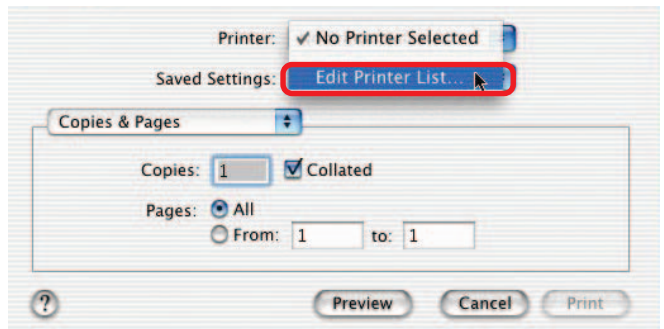
Click **Add Printer**.
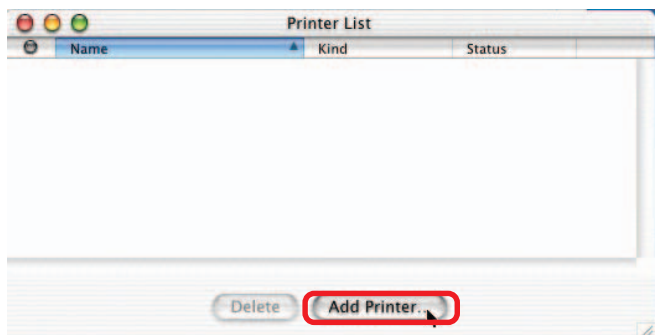
# Setting up Apple Talk or LPR Printing
*in Mac OS X (continued)*

Select the printing protocol preferred, **AppleTalk** or **LPR Printers using IP**. In this example, **AppleTalk** has been selected.



AppleTalk
LPR Printers using IP
USB

Directory Services

Name

PS - 116688-U1          Laserwriter

Printer Model:   Auto Select...

Cancel          Add
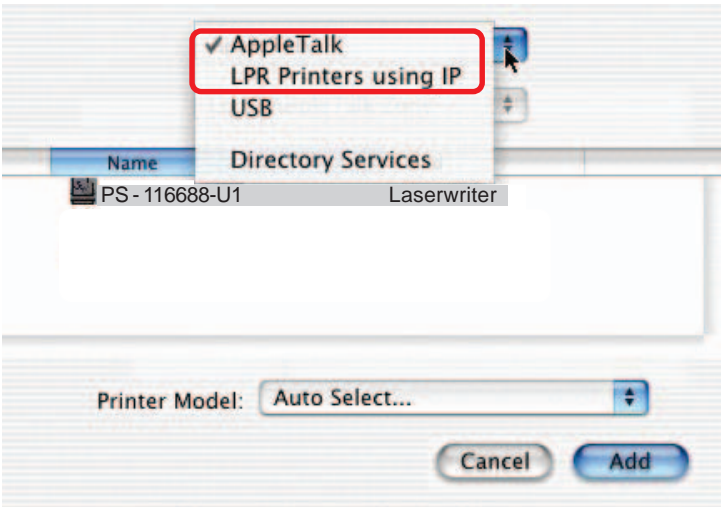
**AppleTalk** protocol: After selecting **AppleTalk** the **Port Name** of the Print Server will be displayed. The **Port Name** shown here is an example only.
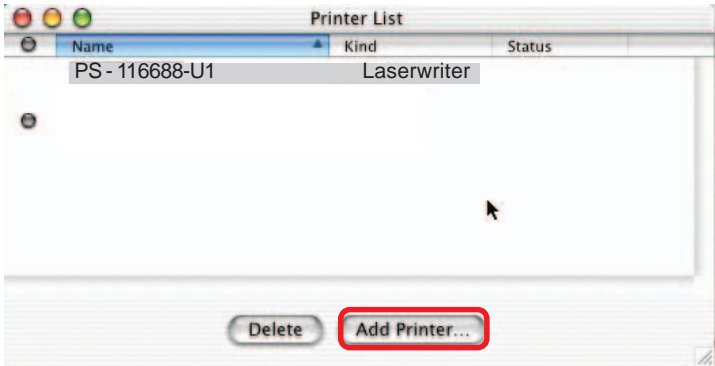
Click on the Port to which the PostScript printer is connected.



Printer List

Name                                    Kind              Status

PS - 116688-U1                  Laserwriter

Delete          Add Printer...

Then select the printer model from the dialog box displayed here.
Click **Add Printer** and the Printer Port configuration  is complete.
Select the Printer Port just configured in the Print window.
Click **Print** to print your document.

# Setting up Apple Talk or LPR Printing
*in Mac OS X (continued)*

**LPR Printers using IP protocol:**

When you select **LPR Printers using IP Protocol**, this window will appear.

Type the IP Address of the Print Server into the **LPR Printer's Address field**.

LPR Printers using IP

LPR Printer's Address: 192.168.0.10
Internet address or DNS name

☐ Use Default Queue on Server

Queue Name: PS-116688 - U1

Printer Model: Generic

Cancel    Add

In the **Queue Name** field, type in the **Port Name** of the PostScript printer that is connected to the Print Server. The **Port Name** illustrated here is only an example. Select the printer model from the dialog box.
In the **Queue Name** field, type in the **Port Name** of the PostScript printer that is connected to the Print Server. The **Port Name** illustrated here is only an example.

Select the printer model from the dialog box.

Click **Add** and the process is complete.

Close all Print Center windows, select the Printer Port that was just selected.

Click **Print** to print the document.Click **Add** and the process is complete.

# Setting up Apple Talk Printing
## *in Mac OS 9*

> **Note: Mac OS printing with this print server supports PostScript printers only!**

The AppleTalk network protocol is used with computers using the MacOS operating system. It can be used for network communications over standard Ethernet or Fast Ethernet using the EtherTalk transport, or over a proprietary low-speed LocalTalk transport.

Your Print Server can be used for network printing to PostScript printers. You can print from any MacOS computer connected to your Ethernet network, either directly using an EtherTalk connection, or indirectly through a LocalTalk-to-EtherTalk router.

*NOTE: The Chooser name of a printer connected to one of the Print Server's ports is the same as its **Port Name**. If you are using AppleTalk printing, you will need to make sure that every **Port Name** is unique among all of the network printers in your AppleTalk zone. The **Port Names** shown in this manual are examples only.*

## Setting up the Print Server for AppleTalk Printing

To set up your Print Server so that it can be used for AppleTalk printing:

■ Make sure the AppleTalk protocol is enabled in your Macintosh.

■ Change the IP address on one of the computers on your network to 192.168.0.x, where **x** is any number between 11-254.

■ Type 192.168.0.10 into the address field of your Web browser. 192.168.0.10 is the default IP Address of the DP-G321.

■ Select the **Network** tab and scroll to the bottom to the AppleTalk protocol section.

■ If your AppleTalk network is divided into AppleTalk *zones*, you will have to specify which zone the Print Server should be in. You should locate the Print Server in the same zone as most of the users who will be using it. If your network is not divided into zones, the AppleTalk Zone field should contain a single asterisk "*".

# Printing from Mac OS Client Workstations

The exact procedure for selecting a PostScript printer connected to your Print Server may vary slightly, depending on what printer driver version you are using. The procedure described below assumes you are using the LaserWriter 8.

To choose a printer connected to your Print Server as your Mac OS workstation's default printer,

> Open the Chooser by selecting **Chooser** from the Apple menu.

> Select the **LaserWriter 8** icon on the left. Make sure that AppleTalk is set to **Active**.

> A list of all networked PostScript printers will be displayed:

Double-click the name of the **Printer Port** you wish to use. The **Printer Ports** shown are examples only.
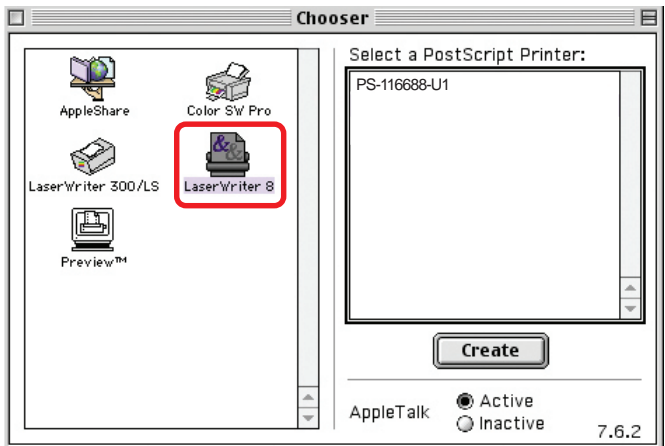
# Printing from Mac OS Client Workstations (continued)

If you have not previously set this printer as the default, your computer will prompt you for a PostScript Printer Description file. Choose **Select PPD**.

> **Current Printer Description File (PPD) Selected:** "Generic"
>
> [ Auto Setup ] [ Select PPD... ] [ Help ]
>
> [ Printer Info ] [ Configure ] [ Cancel ]
>
> [ OK ]
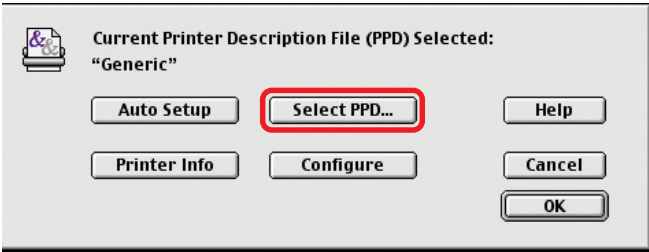
Select the appropriate printer description file for your printer.

Click **Open**.
(If your printer is not listed, click **Generic** to use a generic printer description.)

> **Open**
>
> 🗂 Printer Descriptions ▾
>
> | Name | Date Modified |
> | --- | --- |
> | HP LaserJet 4ML | 5/7/01 |
> | HP LaserJet 4MP | 5/7/01 |
> | HP LaserJet 4MP (300 dpi) | 5/7/01 |
> | HP LaserJet 4Si (300 dpi) | 5/7/01 |
> | HP LaserJet 4Si v2011.110 | 5/7/01 |
> | HP LaserJet 4V | 5/7/01 |
>
> [ Show Preview ]
>
> Use the Generic PostScript™ Printer Description file: [ Generic ]
>
> ⑦ [ Cancel ] [ Open ]
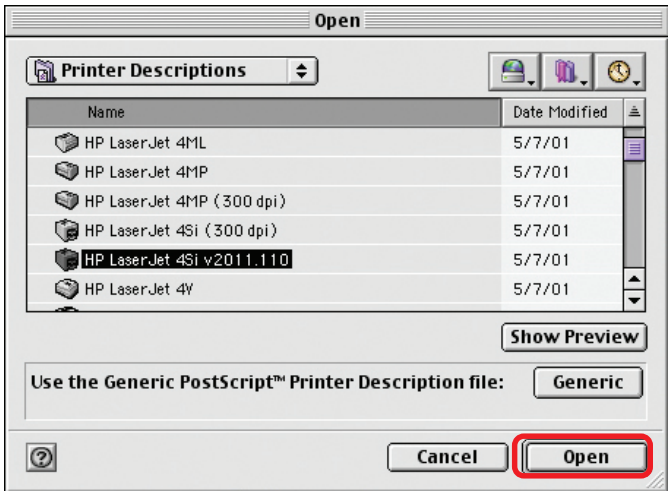
If you wish to access this setting in the future, you can use the **Setup** button in the Chooser window.

The selected printer will become your computer's default printer. You may need to choose **Page Setup** in any applications you have open.

# Networking Basics

*Using the Network Setup Wizard in Windows XP*

In this section you will learn how to establish a network at home or work, using **Microsoft Windows XP**.

*Note:  Please refer to websites such as http://www.homenethelp.com and http://www.microsoft.com/windows2000 for information about networking computers using Windows 2000, ME or 98SE.*

Go to **Start>Control Panel>Network Connections**.
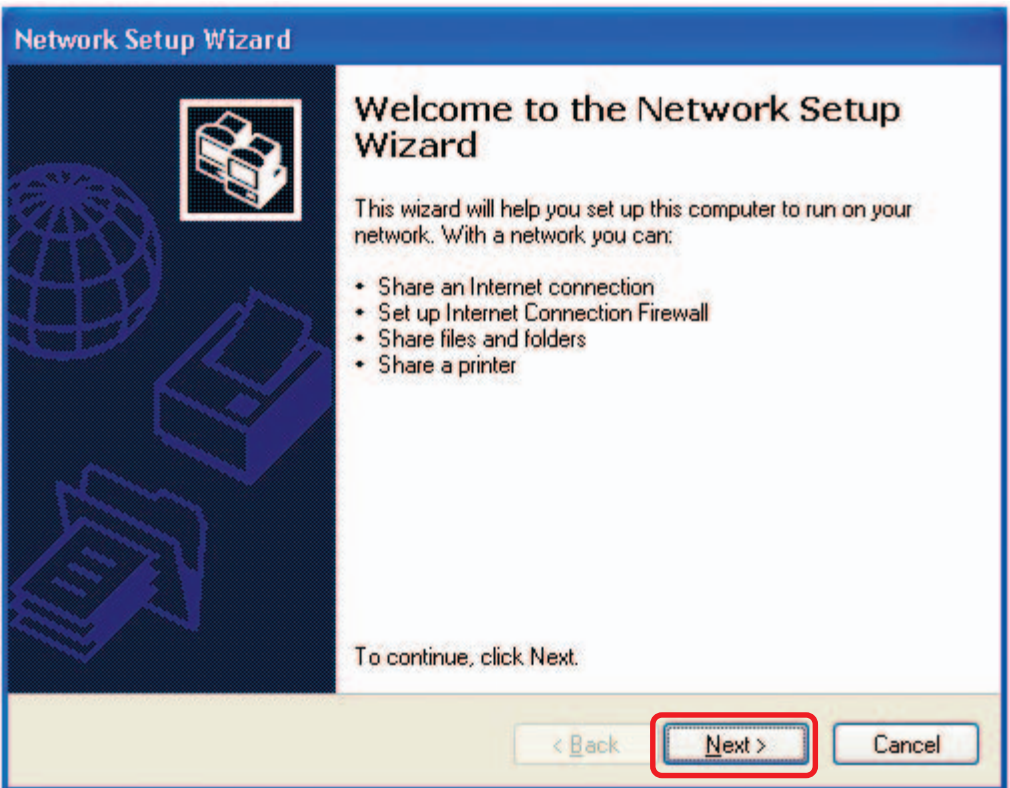


When this screen appears, click **Next**.

# Networking Basics (continued)

Please follow all the instructions in this window:

**Network Setup Wizard**

**Before you continue...**

Before you continue, review the checklist for creating a network.

Then, complete the following steps:

- Install the network cards, modems, and cables.
- Turn on all computers, printers, and external modems.
- Connect to the Internet.

When you click Next, the wizard will search for a shared Internet connection on your network.

< Back    Next >    Cancel
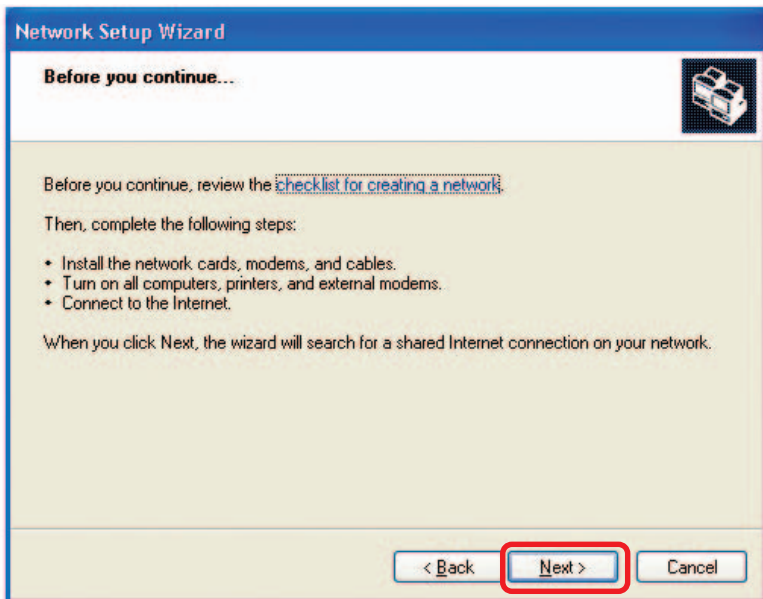
In this window, select the best description of your computer. If your computer connects to the Internet through a gateway/router, select the second option as shown.

**Network Setup Wizard**

**Select a connection method.**

Select the statement that best describes this computer:

○ This computer connects directly to the Internet. The other computers on my network connect to the Internet through this computer.
View an example.

⊙ This computer connects to the Internet through another computer on my network or through a residential gateway.
View an example.

○ Other

Learn more about home or small office network configurations.

Click **Next**.

< Back    Next >    Cancel

# Networking Basics (continued)

Enter a **Computer description** and a **Computer name** (optional).

**Network Setup Wizard**

Give this computer a description and name.

Computer description: Mary's Computer

Examples: Family Room Computer or Monica's Computer

Computer name: Office

Examples: FAMILY or MONICA

The current computer name is Office

Learn more about computer names and descriptions.

[< Back] [**Next >**] [Cancel]

Click **Next**.

Enter a **Workgroup** name. All computers on your network should have the same **Workgroup name**.

**Network Setup Wizard**

Name your network.

Name your network by specifying a workgroup name below. All computers on your network should have the same workgroup name.

Workgroup name: Accounting

Examples: HOME or OFFICE

[< Back] [**Next >**] [Cancel]

Click **Next**.

# Networking Basics (continued)

Please wait while
the **Network
Setup Wizard**
applies the
changes.



When the changes
are complete,
click **Next**.
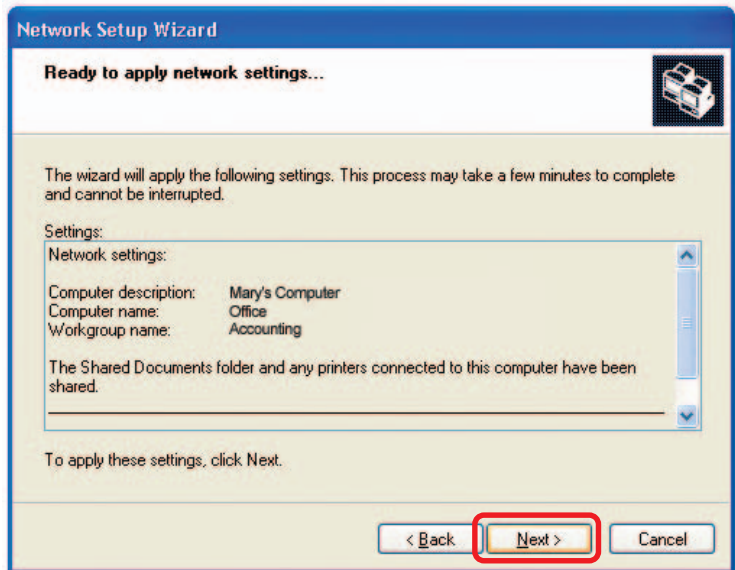
Please wait while
the **Network
Setup Wizard**
configures the
computer.
This may take a
few minutes.
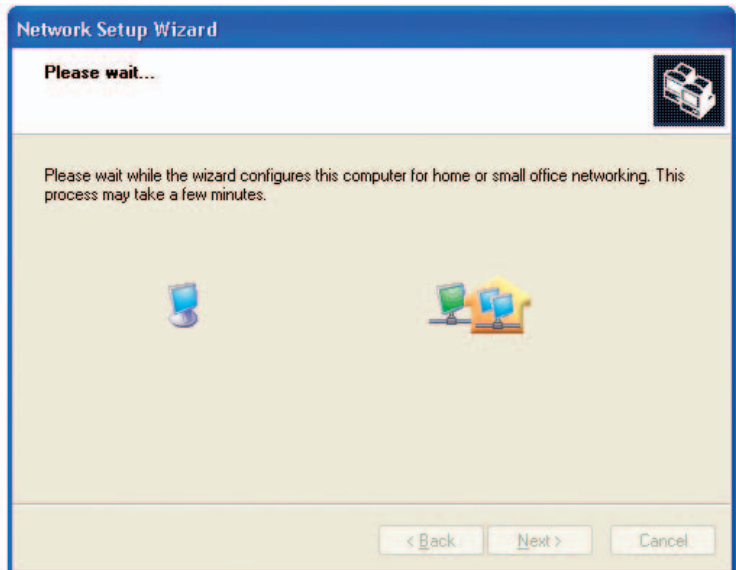
# Networking Basics (continued)

In this window, select the best option. In this example, **Create a Network Setup Disk** has been selected. You will run this disk on each of the computers on your network.

**Network Setup Wizard**

You're almost done...

ⓘ  You need to run the Network Setup Wizard once on each of the computers on your network. To run the wizard on computers that are not running Windows XP, you can use the Windows XP CD or a Network Setup Disk.

What do you want to do?

◉ Create a Network Setup Disk

○ Use the Network Setup Disk I already have

○ Use my Windows XP CD

○ Just finish the wizard; I don't need to run the wizard on other computers

Click **Next**.

< Back    Next >    Cancel

Insert a disk into the Floppy Disk Drive, in this case drive **A**.

**Network Setup Wizard**

Insert the disk you want to use.

Insert a disk the into the following disk drive, and then click Next.

3½ Floppy (A:)

If you want to format the disk, click Format Disk.

[ Format Disk ]
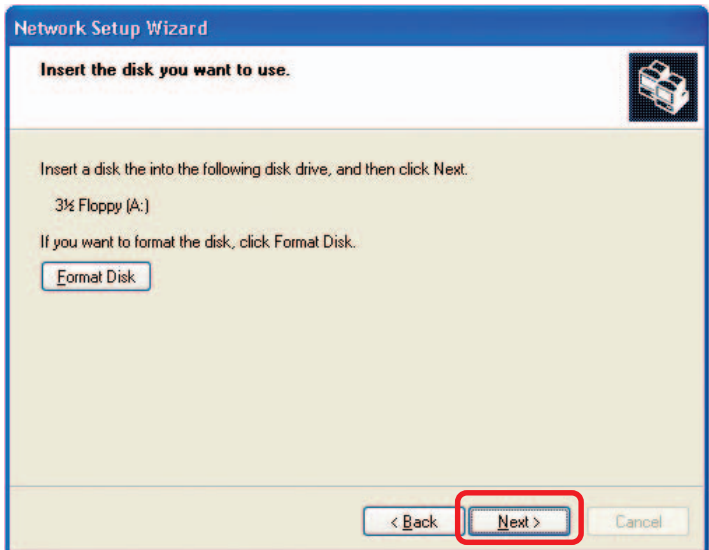
Format the disk if you wish, and click **Next**.

< Back    Next >    Cancel

# Networking Basics (continued)

Please wait while the **Network Setup Wizard** copies the files.

**Copying...**

Please wait while the wizard copies files...

Cancel
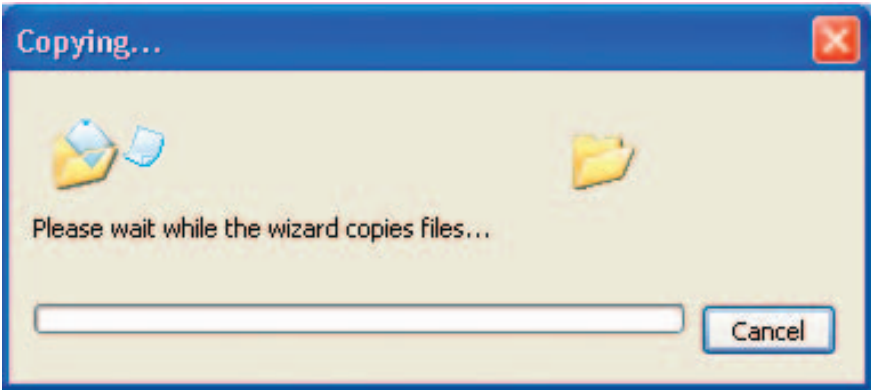
Please read the information under **Here's how** in the screen below. After you complete the **Network Setup Wizard** you will use the **Network Setup Disk** to run the **Network Setup Wizard** once on each of the computers on your network. To continue, click **Next**.

**Network Setup Wizard**

**To run the wizard with the Network Setup Disk...**

Complete the wizard and restart this computer. Then, use the Network Setup Disk to run the Network Setup Wizard once on each of the other computers on your network.

Here's how:

1. Insert the Network Setup Disk into the next computer you want to network.
2. Open My Computer and then open the Network Setup Disk.
3. Double-click "netsetup."

< Back    Next >    Cancel

# Networking Basics (continued)

**Network Setup Wizard**

## Completing the Network Setup Wizard

You have successfully set up this computer for home or small office networking.

For help with home or small office networking, see the following topics in Help and Support Center:

- Using the Shared Documents folder
- Sharing files and folders

To see other computers on your network, click Start, and then click My Network Places.

To close this wizard, click Finish.

[ < Back ]  [ Finish ]  [ Cancel ]

The new settings will take effect when you restart the computer. Click **Yes** to re-start the computer.

**System Settings Change**

You must restart your computer before the new settings will take effect.

Do you want to restart your computer now?

[ Yes ]  [ No ]
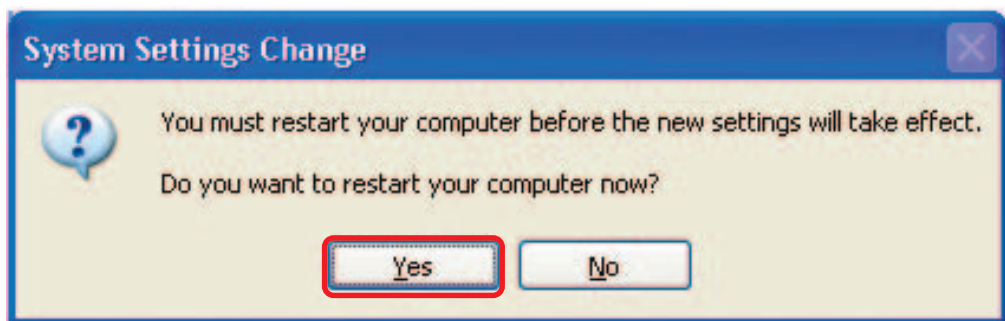
You have completed configuring this computer. Next, you will need to run the **Network Setup Disk** on all the other computers on your network. After running the **Network Setup Disk** on all your computers, your new wireless network will be ready to use.

# Networking Basics (continued)
## *How to assign a Name to your computer*

To name your computer, please follow these directions in **Windows XP**:

- ■ Click **Start** (in the lower left corner of the screen).

- ■ Right-click **My Computer**.

- ■ Select **Properties**.
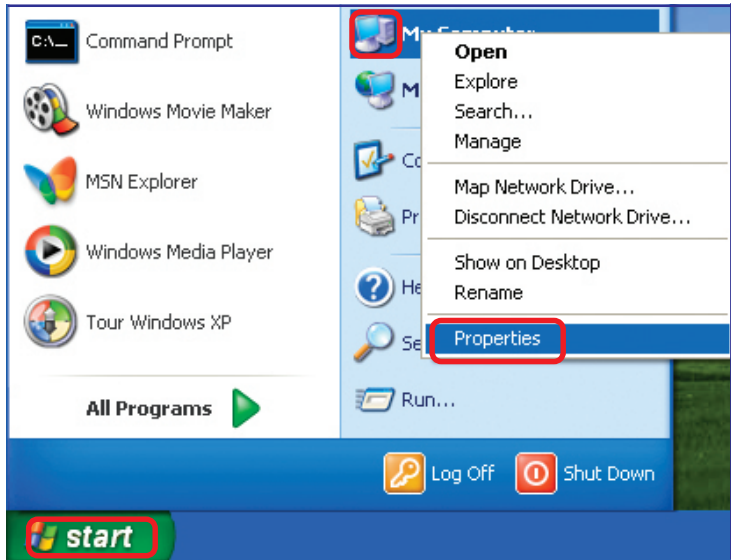


- ■ Select the **Computer Name tab** in the System Properties window.

- ■ You may enter a **Computer Description** (optional).

- ■ To rename the computer and join a domain, Click **Change**.
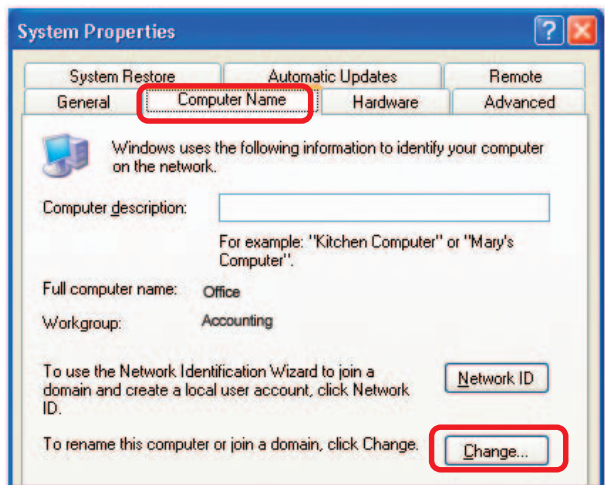
# Networking Basics (continued)
## *How to assign a Name to your Computer*

- In this window, enter the **Computer name**.

- Select **Workgroup** and enter the name of the **Workgroup**.

- All computers on your network must have the same **Workgroup** name.

- Click **OK**.
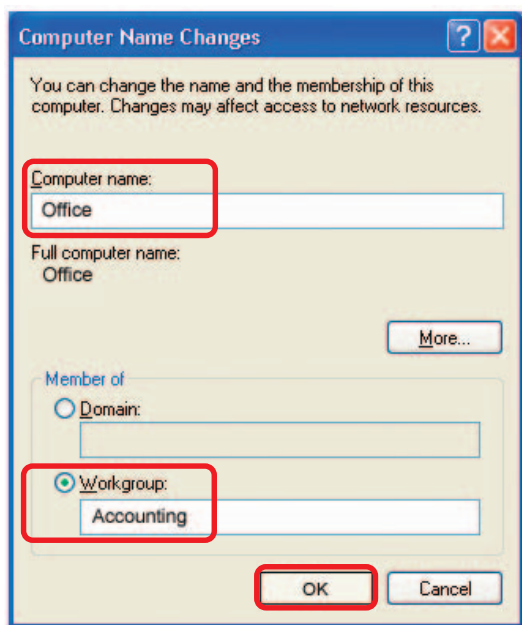


## *How to find your IP Address in Windows XP*

The computers connected to your network must be in the same IP address range. To verify the IP address, please do the following:

- Right-click on the *Local Area Connection icon* in the task bar.

- Click **Status**.

# Networking Basics (continued)
## *How to find your IP Address in Windows XP*

This window will appear.

■ Click the
**Support tab**.

**Wireless Network Connection 7 Status**

General | Support

Internet Protocol (TCP/IP)

| | |
|---|---|
| Address Type: | Assigned by DHCP |
| IP Address: | 192.168.0.114 |
| Subnet Mask: | 255.255.255.0 |
| Default Gateway: | 192.168.0.1 |

[Details...]

[Repair]

■ Click **Close**.

[Close]

## *Assigning a Static IP Address in Windows XP/2000*

*Note: DHCP-capable routers will automatically assign IP addresses to the com-
puters on the network, using DHCP (Dynamic Host Configuration Protocol)
technology. If you are using a DHCP-capable router you will not need to assign
static IP addresses.*

If you are not using a DHCP capable router, or you need to assign a static IP
address, please follow these instructions:

■ Go to **Start**.

■ Double-click
**Control Panel**.

Tour Windows XP

Files and Settings Transfer
Wizard

Paint

**All Programs** ▶

Control Panel

Printers and Faxes

Help and Support

Search

Run...

Log Off | Turn Off Computer

start
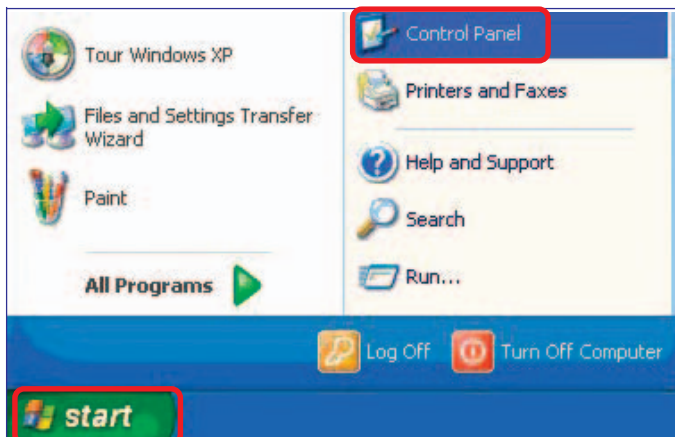
# Networking Basics (continued)
## *Assigning a Static IP Address in Windows XP/2000*

■ Double-click **Network Connections**.
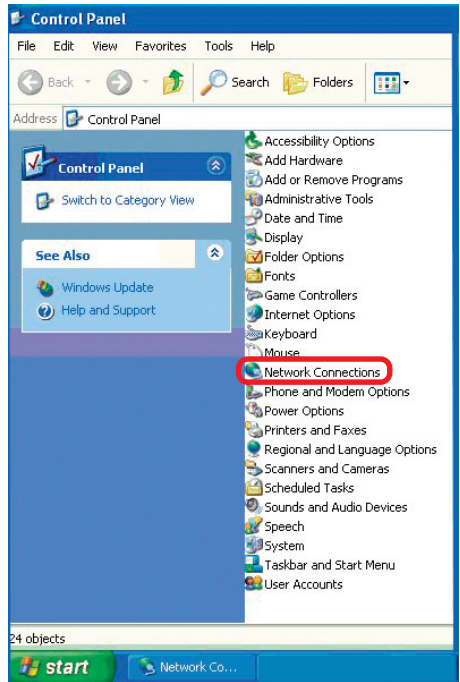


■ Right-click **Local Area Connections**.

■ Double-click **Properties**.
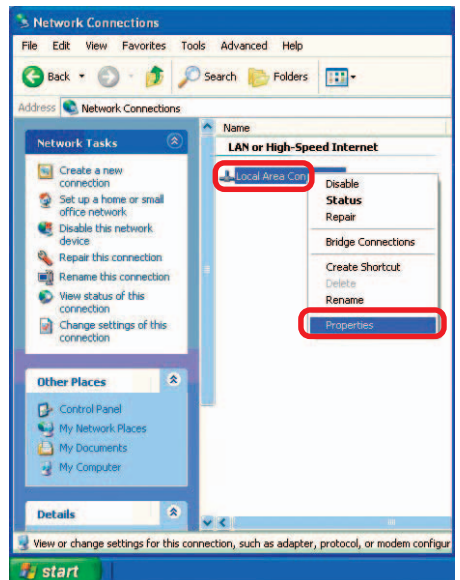
# Networking Basics (continued)
## *Assigning a Static IP Address in Windows XP/2000*

- Click **Internet Protocol (TCP/IP)**.

- Click **Properties**.

- Select **Use the following IP address** in the **Internet Protocol (TCP/IP)Properties** window.

- Input your **IP address and subnet mask**. (The IP addresses on your network must be within the same range. For example, if one computer has an IP address of 192.168.0.2, the other computers should have IP addresses that are sequential, like 192.168.0.3 and 192.168.0.4. The subnet mask must be the same for all the computers on the network.)

- Input your **DNS server addresses**. (Note: If you are entering a DNS server, you must enter the IP address of the Default Gateway.)

*The DNS server information will be supplied by your ISP (Internet Service Provider.)*

- Click **OK.**
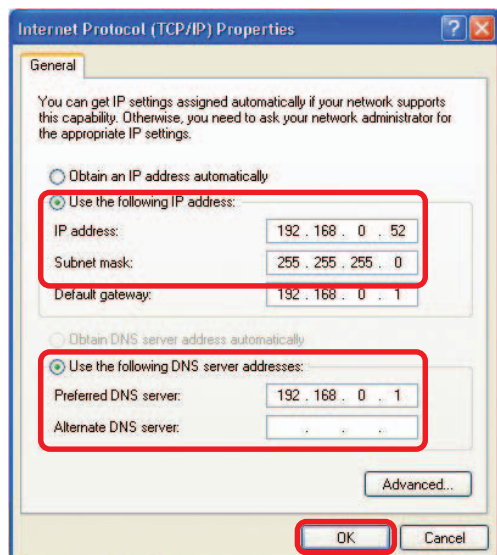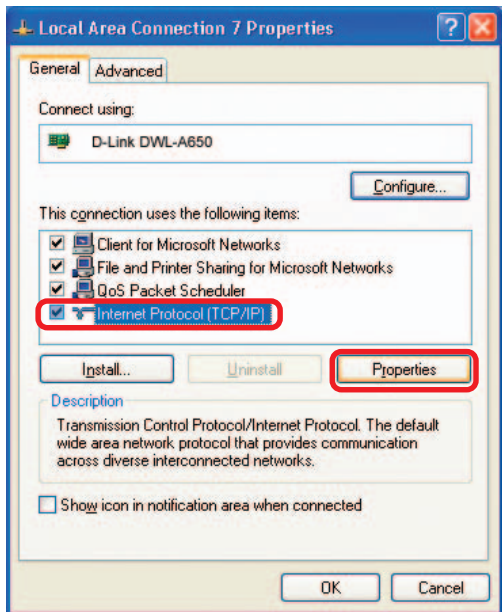
# Technical Specifications

## Printer Connection

**Printer Port:** USB 2.0 or Parallel

**Bidirectional Communication:** Hewlett-Packard PJL (Printer Job Language) standard for bidirectional communication.

## Network Connection

**Network Standards:** IEEE 802.3 10Base-T Ethernet, IEEE 802.11g Wireless Standard

**Network Data Transfer Rate:** 10/100 Mbps (megabits per second), up to 54Mbps

**Network Connector:** CAT5 cable

## Network Protocols

**Ethernet Frame Types:** 802.2, 802.3, Ethernet II, SNAP (auto-switching)

**Transport Protocols:** TCP/IP, NetBEUI, AppleTalk/EtherTalk, LPR,SMB

**TCP/IP Protocols Supported:** BOOTP, SNMP, Telnet, TFTP, FTP, LPD, RARP, DHCP, IPP

## Management and Diagnostics

**Standard:** SNMP

**MIBs:** MIB-II (RFC 1213)

**Diagnostic LED Indicators:** Power, LAN, USB, WLAN

## Environmental and Physical

**Power Supply:** External power supply providing 5V, 2.5A DC

**Dimensions:** 3.54" x 3.19" x 1.57" (90mm x 81mm x 40mm)

**Weight:** approx. 5.19 oz. (147g)

**Operating Temperature:** 32 to122°F (0 to 50°C)

**Storage Temperature:** -13 to 131°F (-25 to 55°C)

**Humidity:** 5% to 95% non-condensing

**Emissions:** FCC Class B, CE Class B, VCCI Class B

# Frequently Asked Questions

**Q**: I am unable to establish a connection between my print server and my D-Link router.

**A**: Verify that your connection between both units is good. Check for valid link lights on your router and your print server. You may be using a bad or incorrect cable.

**Q**: I am unable to make a wireless connection between my wireless print server and my D-Link router.

**A**: Most wireless connection problems are either caused by distance between your print server and your router or your router may be using WEP encryption. For trouble shooting please remove any form of wireless encryption and move the products closer together.

**Q**: My printer will not print when connected to my print server.

**A**: Verify that your printer and your print server are compatible. Log into the Web based management and use the printing test function under **Tools**. If your printer fails to print the test page then your printer is not compatible with this print server.

**Q**: My test page prints fine from the Web based management but prints out unreadable text when I try a Windows based test page.

**A**: Illegible text is caused by incorrect or corrupted drivers 80% of the time. Please visit your printer manufactures web page and download the latest print drivers for your OS.

**Q**: I have another manufacturer's wireless router and can not get the print server to connect.

**A**: You will need to first change the IP address of your print server to match that IP address scheme of your wireless router.

Ex: D-Link uses "192.168.0.x" for its default IP scheme. Where "x" is a number between 2 to 254.

Run PS Admin from a Windows based PC. This will allow you to connect to the print server and change its default IP from 192.168.0.10 to something that matches your wireless network. For testing connections make sure that you disable any WEP encryption on the wireless router.

**Q**: I plug in my USB printer but the USB light does not turn on.
**A**: Please be aware that your USB light will only illuminate when traffic is being passed across the USB port. If you would like to make sure that your printer is being detected by the print server, log into the Web based management and check the printer status.

# 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

*When contacting technical support, please provide the following information:*

- *Serial number of the unit*

- *Model number or product name*

- *Software type and version number*

# Warranty and Registration

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited warranty for its product only to the person or entity that originally purchased the product from:

- ■ D-Link or its authorized reseller or distributor and
- ■ Products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, addresses with an APO or FPO.

**Limited Warranty:** D-Link warrants that the hardware portion of the D-Link products described below will be free from material defects in workmanship and materials from the date of original retail purchase of the product, for the period set forth below applicable to the product type ("Warranty Period"), except as otherwise stated herein.

1-Year Limited Warranty for the Product(s) is defined as follows:

- ■ Hardware (excluding power supplies and fans)One (1) Year
- ■ Power Supplies and Fans One (1) Year
- ■ Spare parts and spare kits Ninety (90) days

D-Link's sole obligation shall be to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund at D-Link's sole discretion. Such repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement Hardware need not be new or have an identical make, model or part. D-Link may in its sole discretion replace the defective Hardware (or any part thereof) with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement Hardware will be warranted for the remainder of the original Warranty Period from the date of original retail purchase. If a material defect is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware (or part thereof) that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

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

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

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

- ■ The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same.

- The original product owner must obtain a Return Material Authorization ("RMA") number from the Authorized D-Link Service Office and, if requested, provide written proof of purchase of the product (such as a copy of the dated purchase invoice for the product) before the warranty service is provided.

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the Product and will not ship back any accessories.

- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to **D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708-4160**. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link, with shipping charges prepaid. Expedited shipping is available if shipping charges are prepaid by the customer and upon request.

D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

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

*Disclaimer of Other Warranties:* EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO NINETY (90) DAYS. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

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

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

**Trademarks:** D-Link is a registered trademark of D-Link Systems, Inc. Other trademarks or registered trademarks are the property of their respective manufacturers or owners.

**Copyright Statement:** No part of this publication or documentation accompanying this Product may be reproduced in any form or by any means or used to make any derivative such as translation, transformation, or adaptation without permission from D-Link Corporation/D-Link Systems, Inc., as stipulated by the United States Copyright Act of 1976. Contents are subject to change without prior notice. Copyright© 2002 by D-Link Corporation/D-Link Systems, Inc. All rights reserved.

**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.

**FCC 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 communication. 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 or more of the following measures**:**

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

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

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

**IMPORTANT NOTE:**
**FCC Radiation Exposure Statement:**
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of about 8 inches (20cm) between the radiator and your body.

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

**Register your D-Link product online at http://support.dlink.com/register/**

(06/15/04)

## *Appendix:*
## DP-G321 Printer Compatibility List For Windows

### The Canon Printer
Canon BJC-55, 85
Canon S100SP
Canon S200SP
Canon S300
Canon S330
Canon S400SP
Canon S450
Canon S520
Canon S600
Canon S750
Canon S4500
Canon S6300
Canon S9000

### The Epson Printer
Epson Stylus Color 900
Epson Stylus Color 1160
Epson Stylus Color 2200
Epson Stylus Photo 720
Epson Stylus Photo 810, 820, 830, 890
Epson Stylus Photo 900
Epson Stylus Photo 1280, 1290
Epson Stylus C41UX, C405, C42UX
Epson Stylus C60, C61, C62
Epson Stylus C80, C82

### The Lexmark Printer
Lexmark Z13
Lexmark Z25
Lexmark Z33
Lexmark Z35
Lexmark Z43
Lexmark Z45
Lexmark Z53

### The HP Printer
HP DeskJet 640C, 656C
HP DeskJet 845C
HP DeskJet 920C
HP DeskJet 948C
HP DeskJet 960C
HP DeskJet 990Cxi, 995C
HP DeskJet 1125C, 1180C
HP DeskJet 1220C
HP DeskJet 3320
HP DeskJet 3420, 3425
HP Color Inkjet CP1700
HP LaserJet 1200
HP LaserJet 2200, 2200d

### The Lexmark Printer

Lexmark 4039 10R
Lexmark 5700
Lexmark Optra Color 45
Lexmark Optra C710
Lexmark Optra E, E+, E310
Lexmark Optra K1220
Lexmark Optra M410, M412
Lexmark Optra N
Lexmark Optra R+
Lexmark Optra S1250, S1855
Lexmark Optra SC-1275
Lexmark Optra SE-3455
Lexmark Optra T614
Lexmark Optra W810
Lexmark Z53

Other printers from the brands listed above may also be supported.
For an updated compatibility list please visit: http://www.support.dlink.com