

Manual

Version 1.1

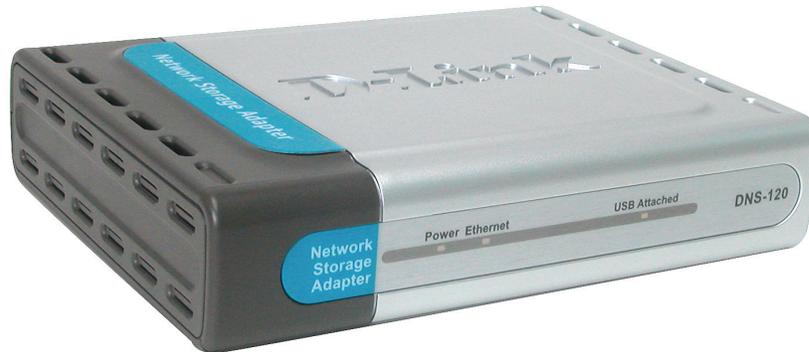
DNS-120 Network Storage Adapter



Table of Contents

Package Contents	3
Introduction	4
Features and Benefits	5
Hardware Overview	6
Getting Started	8
Hardware Installation	9
Mapping a Drive	10
Using the Easy Search Utility	13
Using the Configuration Utility	14
Setup Wizard	15
IP Settings	18
Device Settings	19
User Creation	20
Network Access	21
FTP Server	23
Admin Password	27
Time Server	28
System Settings	29
Upgrade Firmware	30
Device Information	31
Help Screen	32
Download Scheduling	33
Scheduling Status	36
Networking Basics	37
Troubleshooting	43
Technical Specifications	44
Contacting Technical Support	45
Warranty	46
Registration	50

Package Contents



- **D-Link DNS-120**
Network Storage Adapter
- CD-ROM with Manual and Software
- Ethernet (CAT5 UTP/Straight-Through) Cable
- 5V 2.5A Power Supply

Note: Using a power supply with a different voltage than the one included with the DNS-120 will cause damage and void the warranty for this product.

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

Minimum System Requirements

- Computer with Windows® XP or 2000
- Internet Explorer version 6.0 or Netscape Navigator version 7.0 and above
- USB Hard Drive(s)
- An available Ethernet port on the network

Introduction

The D-Link DNS-120 Network Storage Adapter connects USB drives* to the network, and provides authorized users access to their files. You can connect up to two standalone USB 2.0 hard drives or flash drives and instantly have access to all stored files.

The DNS-120 Network Storage Adapter can be configured so that your USB 1.1 or USB 2.0 drives are accessible over the Internet, making it convenient to access your files, even when you're away.

With its built-in backup function, schedule full or incremental backups of important information on the network. You can set up PC-to-drive or drive-to-drive backups. Either way, an extra copy of your data remains on the USB drive connected to the DNS-120 and ready to take on the road at anytime.

The DNS-120 Network Storage Adapter does not require you to reboot the system when adding USB drives to the network, thus eliminating downtime. You can also prevent any data loss by safely removing the USB drives using the "Disconnect" button on the back of the DNS-120.

Through plug and play setup, installing the DNS-120 Network Storage Adapter into your network has never been easier. Simply connect the DNS-120 to a Fast Ethernet port on your network router or switch, and plug in USB hard drives or flash drives.

Additional setup options can be configured using the built-in Web-based admin utility including firmware upgrade, user account management, folder management, scheduled downloads, and DHCP/manual network settings. Using the Easy Search utility, discover all DNS-120 units on the network and easily create shortcuts to their USB drives.

The DNS-120 Network Storage Adapter is a fast, simple, and cost-effective way to connect and share storage on the network.

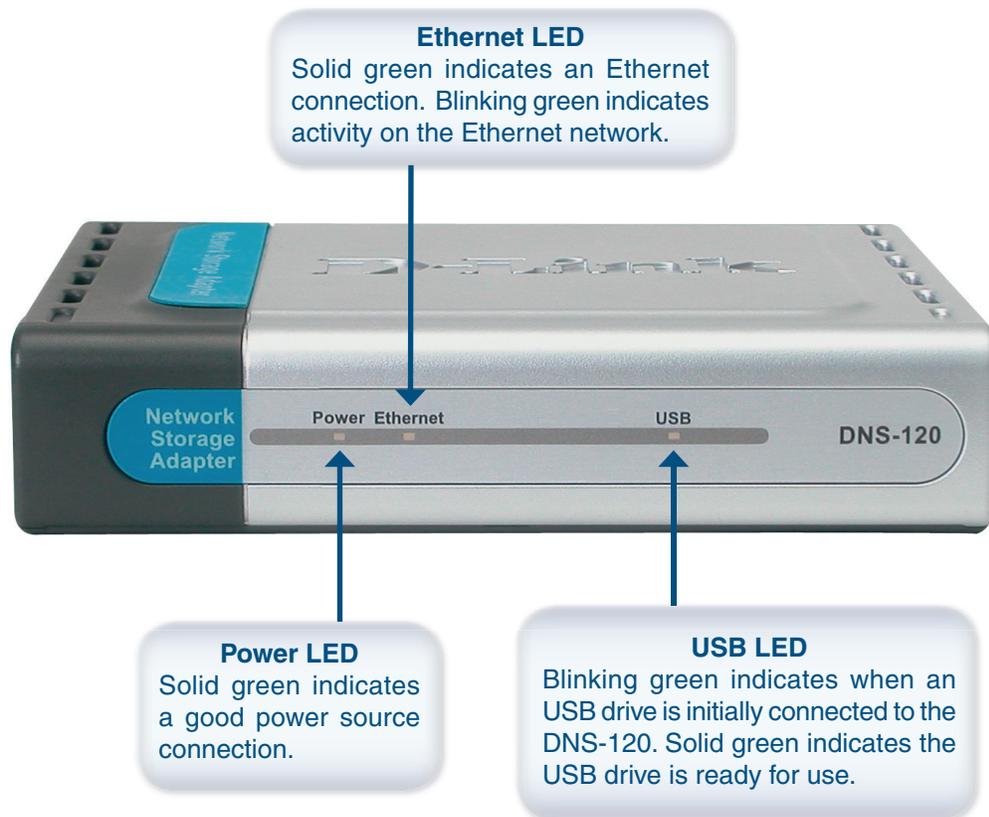
* USB drives sold separately.

Features and Benefits

- Connect USB 2.0/1.1 Drives on the Network** Add extra storage space to your network! Connect up to two stand-alone USB 1.1 or 2.0 hard drives or flash drives to the DNS-120 and easily have access to all stored files.
- Built-in FTP Server** The DNS-120 can be configured so that your USB drives are accessible over the Internet, making it convenient to access your files, even when you're away.
- Safely Add and Remove USB Drives** The DNS-120 does not require you to reboot the system when adding USB drives to the network, thus eliminating downtime. You can also prevent any data loss by safely removing the USB drives using the **Disconnect** button on the back of the DNS-120.
- Plug & Play** Through plug and play setup, installing the DNS-120 into your network has never been easier. Simply connect the DNS-120 to a 10/100 Fast Ethernet port on your network router or switch, plug in USB hard drives or flash drives, and configure additional setup options using the Web-based configuration utility.
- Web-based Configuration Utility** Additional setup options can be configured using the built-in Web-based configuration utility including firmware upgrade, user account management, folder management, scheduled downloads, and DHCP/manual network settings.
- Backup Function** You can schedule the DNS-120 to automatically create full or incremental backups of important information on the network.

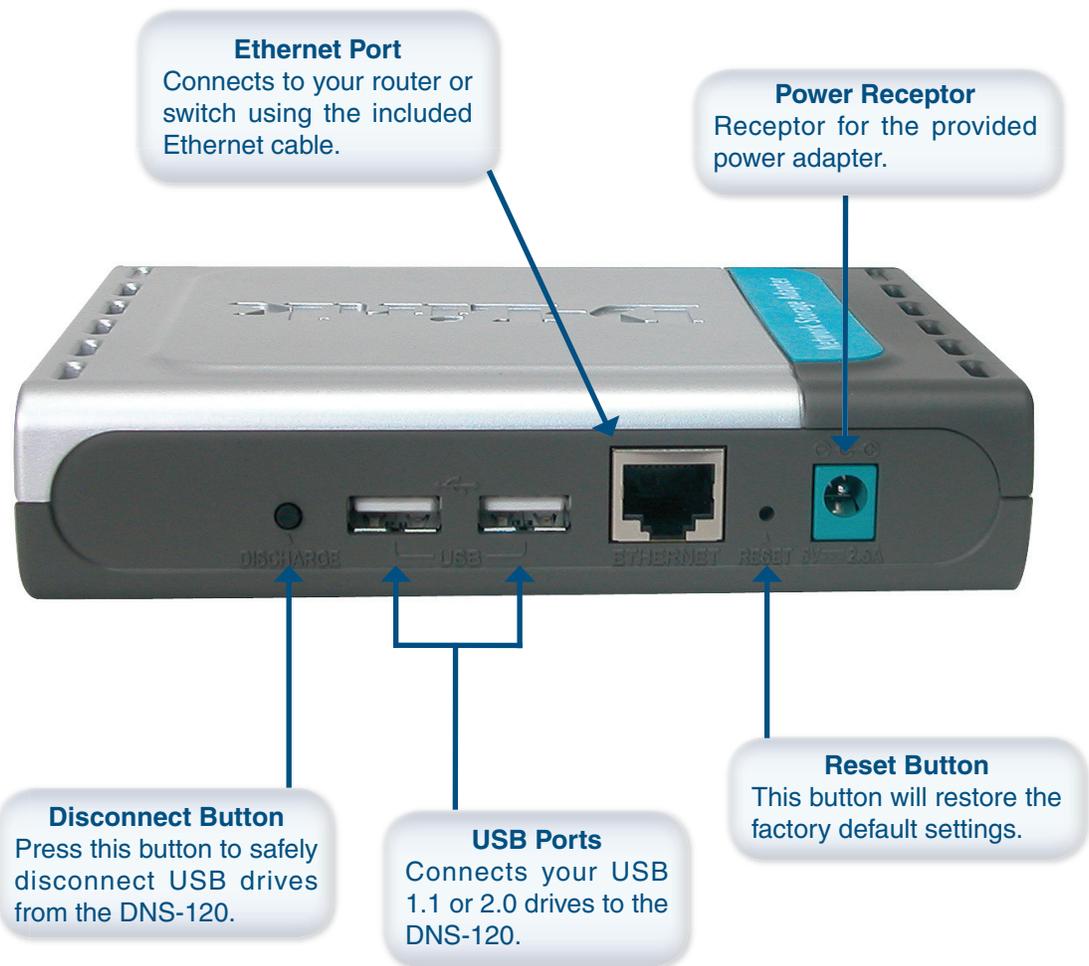
Hardware Overview

Front Panel



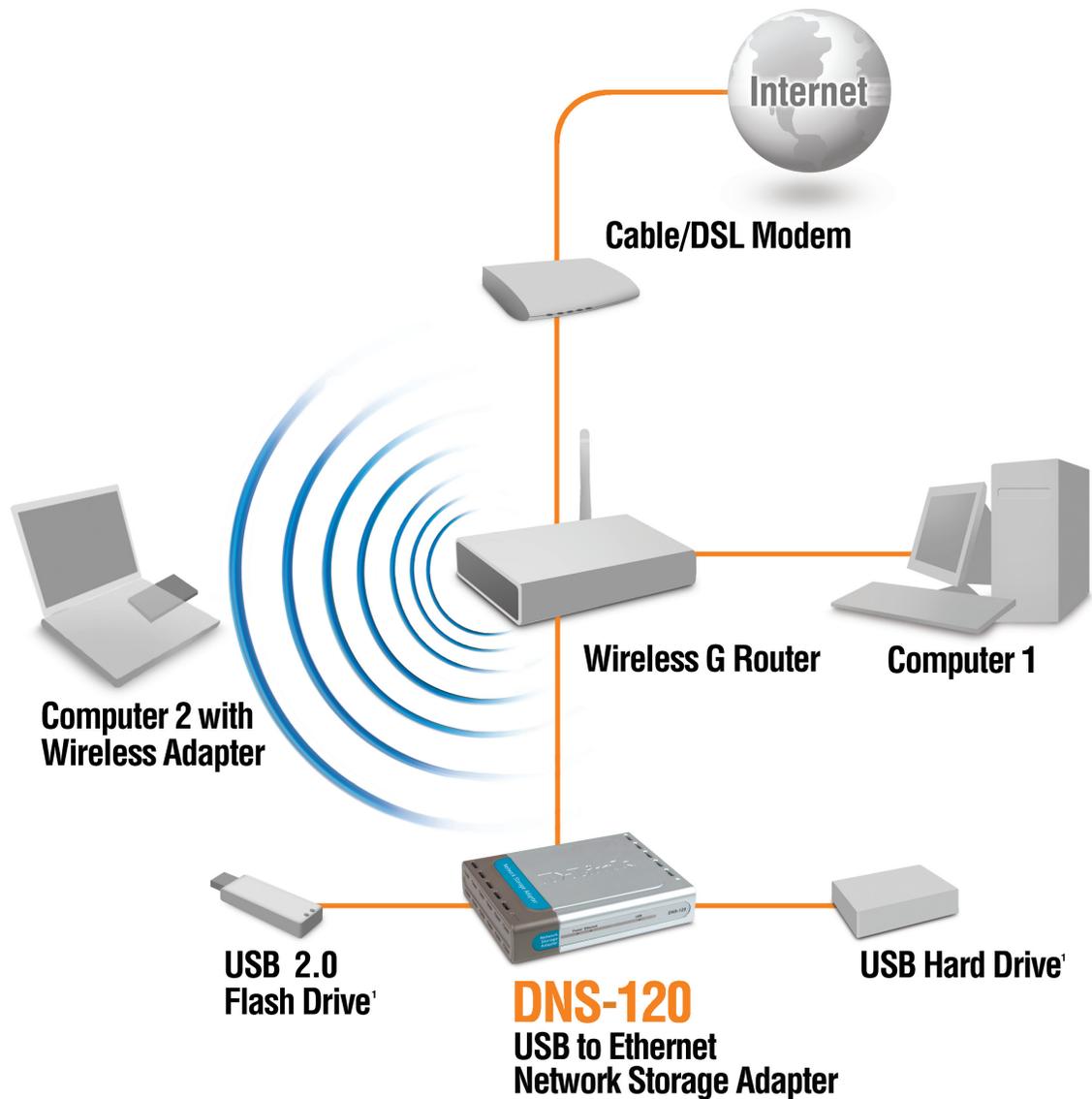
Hardware Overview

Rear Panel



Getting Started

When you have completed the steps in this Quick Installation Guide, your connected network may look similar to this:



Hardware Installation

- 1 Attach the provided Ethernet cable to the Ethernet port on the rear panel.



- 2 Attach the other end of the Ethernet cable to an available Ethernet port on your router or switch.
- 3 Plug the AC adapter into the receptor located on the back of the device. Plug the other end of the AC Adapter into a power strip or wall outlet.



- 4 Attach your USB drive(s) to the USB port(s) on the rear panel of the DNS-120. The USB LED on the front panel will blink until the drive has been installed. Once the USB LED is solid green, your USB drive is ready for use.

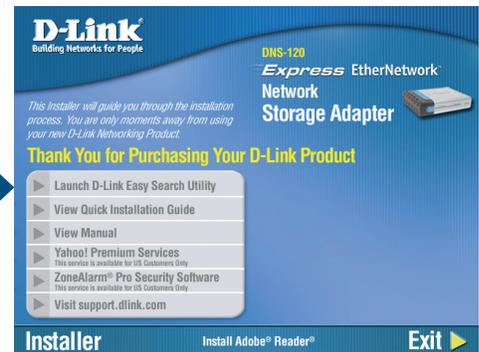


Mapping a Drive

You can use the D-Link Easy Search Utility to map drives to your computer.

Insert the DNS-120 CD into your CD-ROM drive.

Click **Launch D-Link Easy Search Utility**.

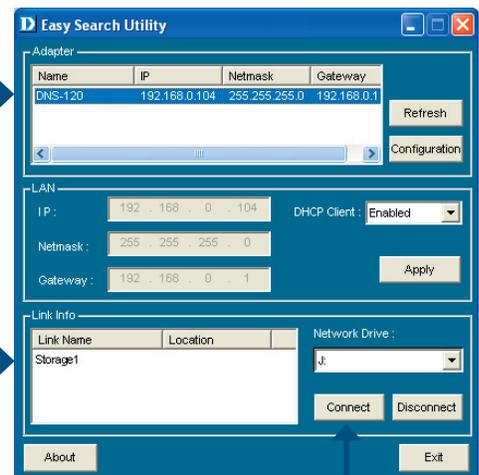


Highlight an available DNS-120.

Available shares will be displayed under Link Info. Highlight the share you want to map.

Select an available drive letter from the drop-down menu and click **Connect**.

Click **Disconnect** to remove the selected mapped drive.

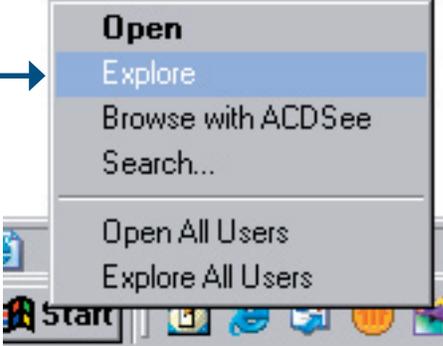


Once connected, your mapped drive(s) will appear in **My Computer**. From your desktop, double-click the **My Computer** icon and then double-click your mapped drive to access the files and folders.

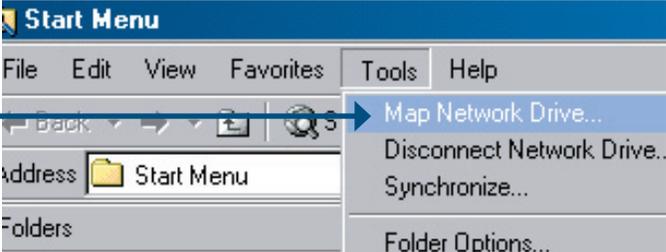
Mapping a Drive (continued)

As an alternate method, you can access the DNS-120's USB drive(s) by mapping the shared folders as drives in Windows. Please see the following instructions for mapping a USB drive so that it is accessible from the My Computer screen.

Right-click **Start** and click **Explore**.



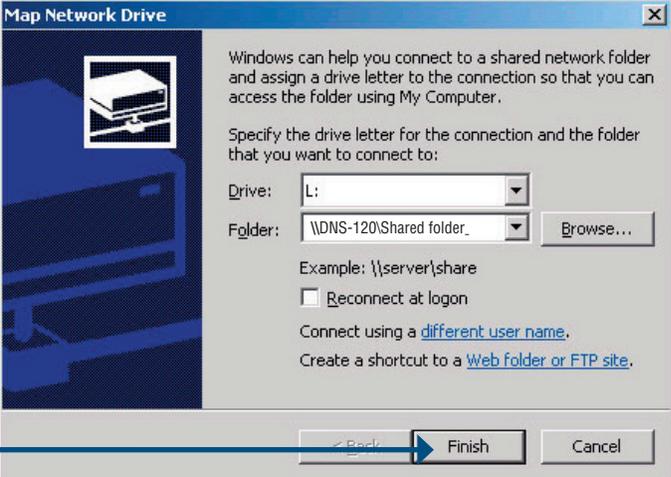
Click **Tools** and click **Map Network Drive**.



Select an available drive letter and click **Browse** to locate your shared DNS-120 folder.

You will find the DNS-120 shared folder under the **Workgroup Name** that you entered into the Setup Wizard or in the Home>LAN screen in the Configuration Utility.

Click **Finish**



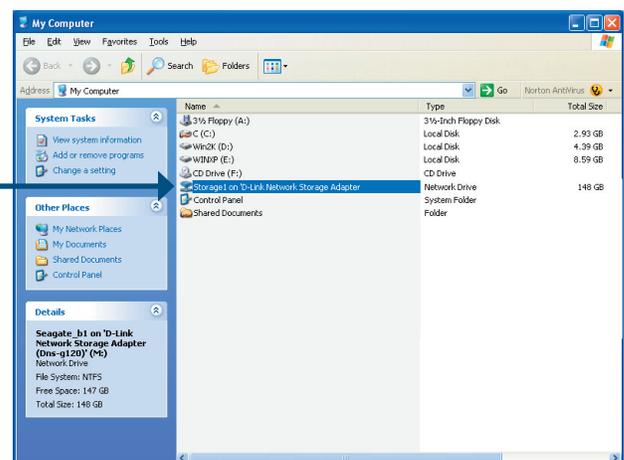
Mapping a Drive (continued)

Once connected, all shared folders will appear in My Computer.

Double-click the **My Computer** icon on your desktop.



Double-click on the mapped drive to access the files and folders.

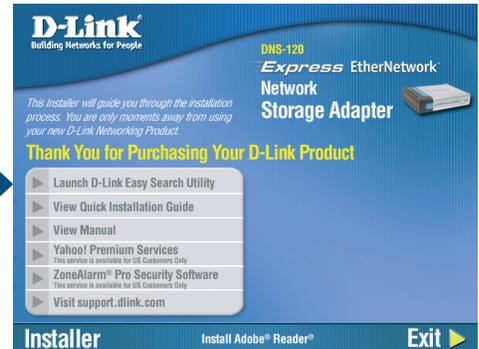


Using the Easy Search Utility

The D-Link Easy Search utility will allow you to connect to the web-based configuration utility, assign IP address settings to the DNS-120, and map drives to your computer.

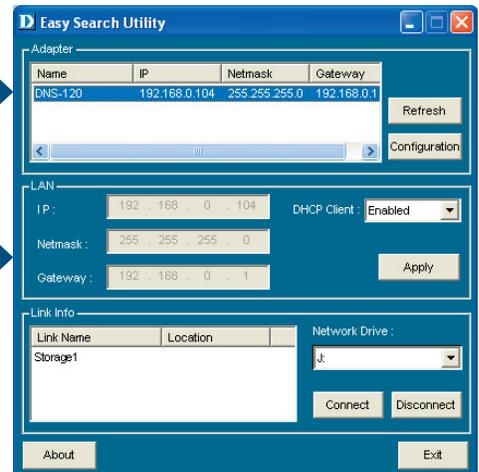
Insert the DNS-120 CD into your CD-ROM drive.

Click **Launch D-Link Easy Search Utility**.



Highlight an available DNS-120 and click **Configuration** to access the web-based utility.

To assign a static IP, highlight the DNS-120 and select **Disabled** from the DHCP Client drop-down menu. Enter the new IP address and network settings. Click **Apply** to save the settings.



Refer to page 10 for Mapping a Drive instructions.

Using the Configuration Utility

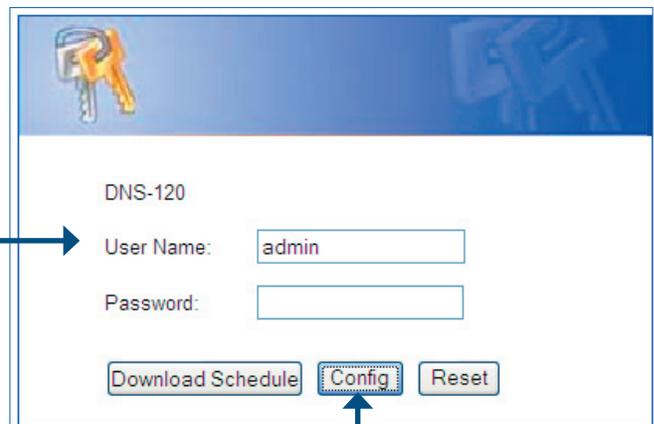
To log into the web-based configuration of the DNS-120, you may run the Easy Search Utility included on your CD or type **http://DNS-120** into a web browser.

Open your Web browser and type **http://DNS-120** into the URL address box and then press the **Enter** or **Return** key.



The logon screen will appear.

Type **admin** for the username and leave the password field blank.

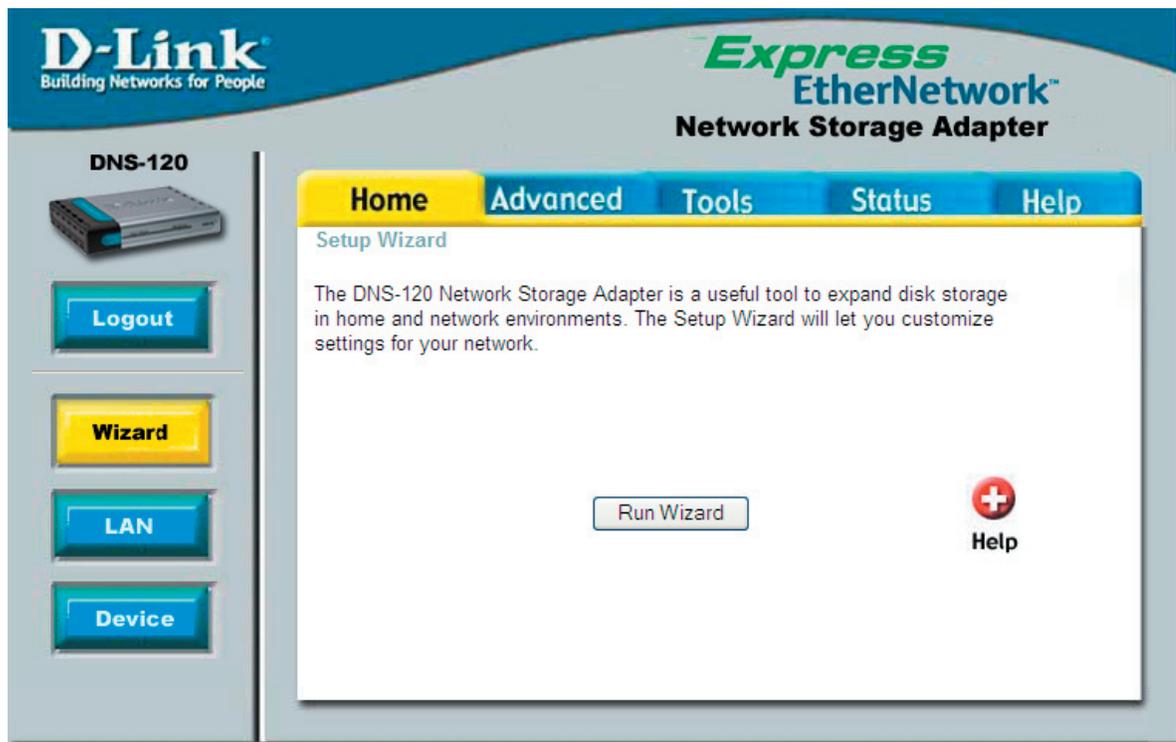


Click **Config**

Once you have logged in, the **Home** screen, shown on the next page, will appear.

Home > Wizard

The Home>Wizard screen will appear. Click **Run Wizard** and the **Setup Wizard** will guide you through the basic configuration. For a tour of the **Wizard**, please see the following pages in this section.



These buttons appear on most of the configuration screens in this section. Please click on the appropriate button at the bottom of each screen after you have made a configuration change.



Apply

Clicking **Apply** will save changes made to the page



Cancel

Clicking **Cancel** will clear changes made to the page



Help

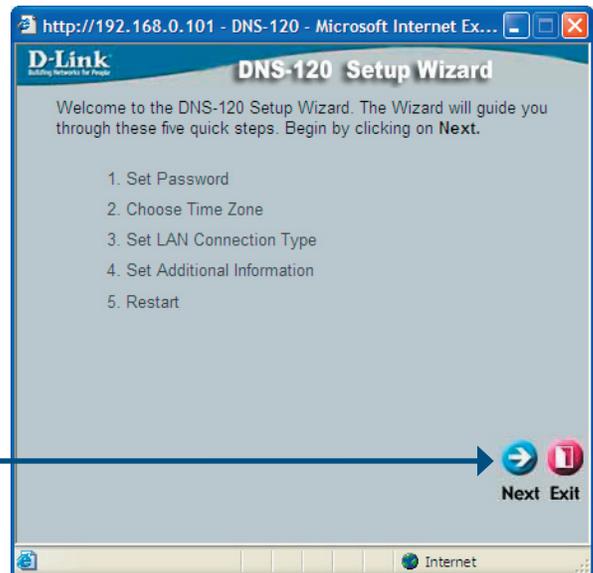
Clicking **Help** will bring up helpful information regarding the page

Using the Setup Wizard

The Wizard will guide you through five steps:

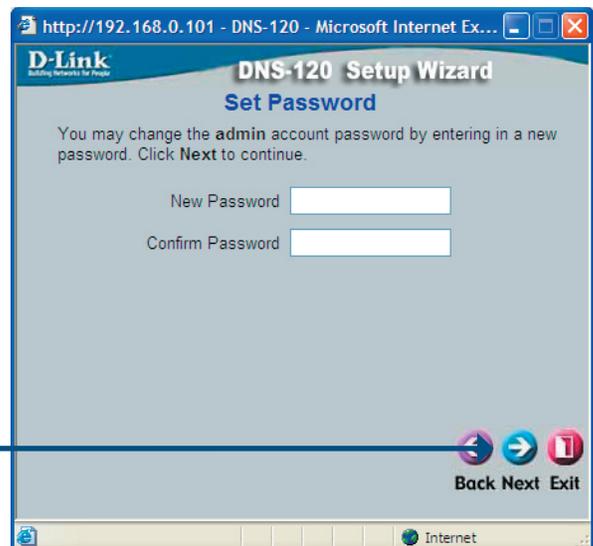
- Password
- Time Zone
- LAN Connection
- Additional settings

Click **Next**



Create a new password for your DNS-120.

Click **Next**



Select your Time Zone from the drop-down menu.

Click **Next**



Using the Setup Wizard (continued)

Leave **DHCP Client** enabled if your network contains a DHCP server or router. If not, select **Static IP** and enter the IP address information to be used. The IP address must be in the same range as your network.

Click **Next**

The screenshot shows the 'Select LAN Connection Type' screen of the DNS-120 Setup Wizard. The title bar indicates the URL is http://192.168.0.101 - DNS-120 - Microsoft Internet Ex... The page has the D-Link logo and title 'DNS-120 Setup Wizard'. The main heading is 'Select LAN Connection Type'. Below it, instructions state: 'Select your connection type and fill out the IP information if necessary. Click Next to continue.' There are two radio buttons: 'DHCP Client' (selected) and 'Static IP'. Below the radio buttons are input fields for 'IP Address' (192.168.0.101), 'Subnet Mask' (255.255.255.0), and 'Gateway IP Address' (192.168.0.1). There are also empty fields for 'DNS1' and 'DNS2'. At the bottom right, there are three buttons: 'Back', 'Next', and 'Exit'. The status bar at the bottom shows 'Done' and 'Internet'.

Enter the workgroup name of your network. Enter a name and a description for the DNS-120.

Click **Next**

The screenshot shows the 'Set Additional Information' screen of the DNS-120 Setup Wizard. The title bar indicates the URL is http://192.168.0.101 - DNS-120 - Microsoft Internet Ex... The page has the D-Link logo and title 'DNS-120 Setup Wizard'. The main heading is 'Set Additional Information'. Below it, instructions state: 'Enter your Workgroup, Name, and description for the DNS-120. Otherwise you may accept the default names and click Next to continue.' There are three input fields: 'Workgroup' (workgroup), 'Name' (DNS-120), and 'Description' (D-Link Network Storage). At the bottom right, there are three buttons: 'Back', 'Next', and 'Exit'. The status bar at the bottom shows 'Internet'.

Click **Restart**

The screenshot shows the 'Setup Completed' screen of the DNS-120 Setup Wizard. The title bar indicates the URL is http://192.168.0.101 - DNS-120 - Microsoft Internet Ex... The page has the D-Link logo and title 'DNS-120 Setup Wizard'. The main heading is 'Setup Completed'. Below it, instructions state: 'The Setup Wizard is complete. Click on Back to make any changes. Click Restart to save the current settings and restart the DNS-120.' At the bottom right, there are three buttons: 'Back', 'Restart', and 'Exit'. The status bar at the bottom shows 'Internet'.

You have completed the basic configuration of the DNS-120 using the setup wizard!

Home > LAN

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DNS-120

Logout

Wizard

LAN

Device

Home Advanced Tools Status Help

LAN Settings

DHCP Client
 Static IP

IP Address:

Subnet Mask:

Gateway IP Address:

DNS1:

DNS2:

Apply Cancel Help

DHCP Client/Static IP: Select either **DHCP Client** (default) if you have a DHCP server or router on your network, or **Static IP** if you want to assign the network settings manually.

IP Address: Enter the IP address of the DNS-120 here, when Static IP is selected.

Subnet Mask: Enter the subnet mask here, when Static IP is selected.

Gateway Address: Enter the gateway address here, when Static IP is selected. This is normally the LAN address of your router.

DNS1/DNS2: DNS (Domain Name System) is an Internet service that translates domain names into IP addresses. Enter a DNS address here. If you are using a router in your network, you can usually enter the router's LAN IP address as the DNS address.

Apply: Click **Apply** to save the changes.

Home > Device



The screenshot shows the configuration utility interface for the D-Link Express Ethernet Network Storage Adapter. The interface is titled "D-Link Building Networks for People" and "Express Ethernet Network Storage Adapter". It features a navigation menu with "Home", "Advanced", "Tools", "Status", and "Help". The "Home" tab is selected, and the "Device Settings" section is active. The settings include:

- Workgroup:
- Name:
- Description:

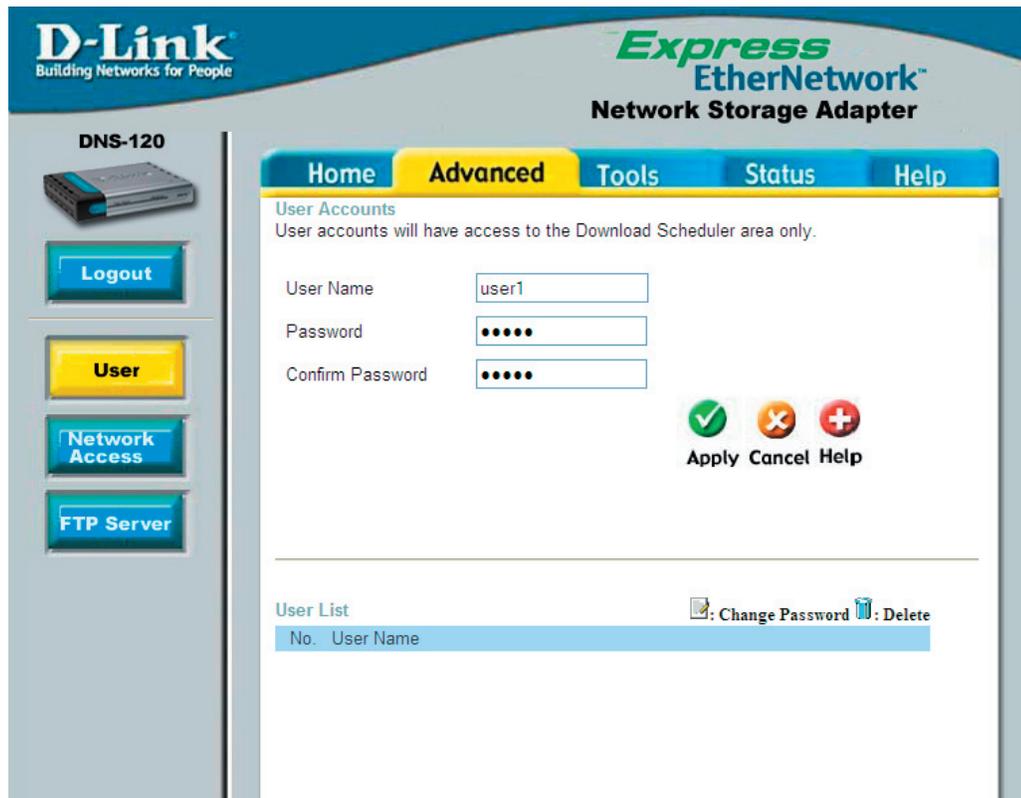
At the bottom of the settings area, there are three icons: a green checkmark for "Apply", an orange 'X' for "Cancel", and a red plus sign for "Help".

Workgroup: Enter the name of the workgroup of your network.

Name: Enter a name for the DNS-120 device. This is useful if you have more than one DNS-120 devices on the network.

Description: Enter a description of the DNS-120.

Advanced > User



User Name: Enter a user name.

Password: Enter a password for the user.

Comfirm Password: Enter the password again for confirmation.

Apply: Click Apply to save your settings.

Users you create will be listed under **User List**.



To change a current user's password, click the  icon next to a user listed under **User List**. Click **Apply** to save any changes.

To delete a user, click the  icon next to a user listed under **User List**. Click **Apply** to save any changes.

You will need to create users when assigning permissions, using FTP, and using the downloading feature.

Advanced > Network Access

The screenshot shows the configuration utility interface for the D-Link Express EtherNetwork Network Storage Adapter. The main content area is titled "Network Access Settings" and contains the following form fields:

- User:** A drop-down menu with "Please Select user..." and a checkbox for "All accounts".
- Path:** A text input field with an "Open" button.
- Authority:** A drop-down menu with "Read Only" selected.
- Comment:** A text input field.

Below the form are three buttons: "Apply" (green checkmark), "Cancel" (orange X), and "Help" (red plus). At the bottom, there is a table with the following columns: Share, Path, User, Comment, and R/W. The table contains one row with a checked checkbox in the R/W column, indicating Read/Write permissions.

- User:** Select a user from the drop-down menu or check **All Accounts**.
- Path:** Click **Open** and select the folder from the USB drive that you would like to create the rule for.
- Authority:** Select Read Only or Read/Write from the drop-down menu.
- Comment:** Enter a comment regarding the rule.

By default, all users on your local network will have read/write permissions to all files and folders on the USB drive(s) that are connected to the DNS-120. This "rule" will be displayed in the list similar to the picture above.

- **Note:** Currently, you may only assign Read Only permissions to the USB drive(s) if formatted with NTFS. To assign read/write permissions, the drive(s) must be formatted with FAT or FAT32.

Advanced > Network Access (continued)

To create a network access rule, you must first delete the default rule by clicking on the trash can icon. Once the rule is deleted, users will not be able to access the USB drive(s) until new rules have been created.

Click the trash can icon to delete the rule.

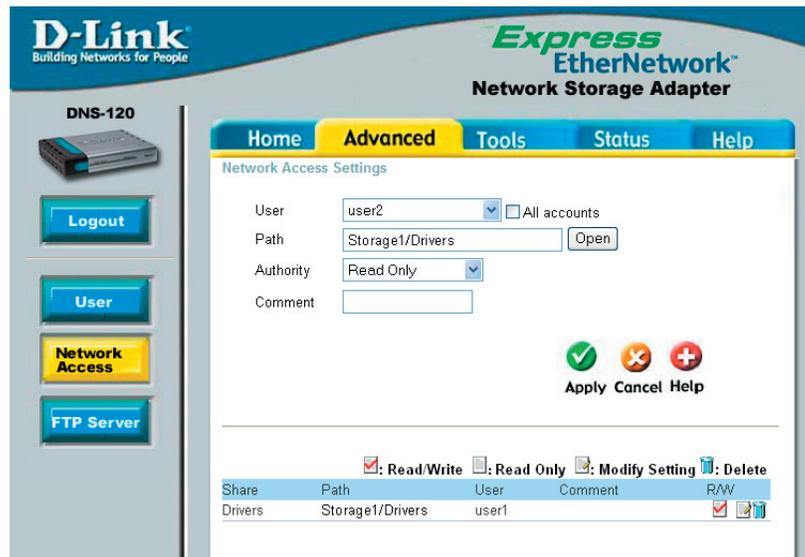
Share	Path	User	Comment	R/W
Storage1	Storage1			<input checked="" type="checkbox"/> <input type="checkbox"/>

Example

In the example below, permissions are set for the folder “**Drivers**” on the USB drive named “**Storage1**”. Two users (user1 and user2) were created (refer to page 20 on creating users).

User1 has been assigned read/write permissions for the Drivers folder (as seen in the network access list).

User2 will be assigned read only permissions for the Drivers folder. Once the settings are applied, User2 will appear in the network access list.



You may edit a rule from the list by clicking on the icon.

To delete a rule from the list, click on the .

Advanced > FTP Server

You can use the built-in FTP server to allow users from the Internet or Intranet FTP access to the drive(s) or folder(s) that you want to share.

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DNS-120

Logout

User

Network Access

FTP Server

Home Advanced Tools Status Help

FTP Server Settings

User: Please Select user... All accounts

Path: root

Authority: Read Only

Max User: 05

Idle Time: 2 (1~10 Minutes)

Port: 21 (1~65535, default:21)

Flow Control: Unlimited x 10 KBs

Path: Read/Write Read Only Modify Setting

User Name	Path
Anonymous	Storage1

FTP Server Status

Status	Started
Port	21
Max user	5
Flow	Unlimited
Idle time	2 minutes
Anonymous	Yes
Write	No

User: Select a user from the drop-down menu or check **All Accounts**.

Path: Click **Open** and select the folder from the USB drive that you would like to create the rule for.

Root: Check the **Root** box to select the root level of both USB drives at once.

Authority: Select **Read Only** or **Read/Write** from the drop-down menu.

Add: Click **Add** to save your share/permissions.

Advanced > FTP Server (continued)

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DNS-120

Logout

User

Network Access

FTP Server

Home Advanced Tools Status Help

FTP Server Settings

User: Please Select user... All accounts

Path: root

Authority: Read Only

Max User: 05

Idle Time: 2 (1~10 Minutes)

Port: 21 (1~65535, default:21)

Flow Control: Unlimited x 10 KBs

Path: Read/Write Read Only

User Name	Path
Anonymous	Storage1

FTP Server Status

Status	Started
Port	21
Max user	5
Flow	Unlimited
Idle time	2 minutes
Anonymous	Yes
Write	No

Max User: Select the maximum number of users allowed to connect via FTP at one time from the drop-down menu.

Idle Time: Select the idle time (1-10 minutes). Users will be disconnected when idle for the specified amount of time.

Port: You may change the port used for FTP. The default port is 21.

Flow Control: Select **Unlimited** or enter a data rate (x10 KB) for restricted data flow. This setting is only necessary where network traffic is significant and can be affected by FTP server activity.

Path: Displays current FTP users, paths, and permissions.

FTP Server Status: Displays the current information regarding the FTP server.

You may edit a rule from the list by clicking on the icon.

To delete a rule from the list, click on the icon.

Advanced > FTP Server (continued)

Example:

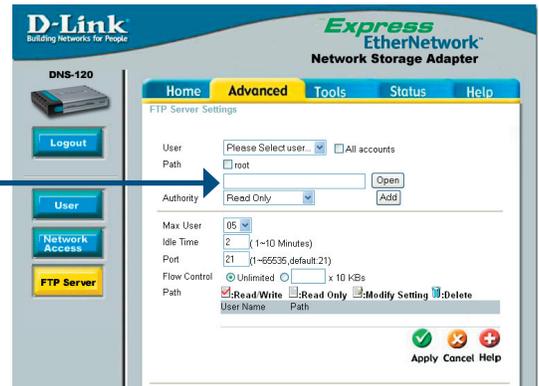
Log into the web-based configuration by launching the Easy Search Utility or by opening a web browser and entering **http://dns-120**.

Click **Advanced** and then click **FTP Server**.

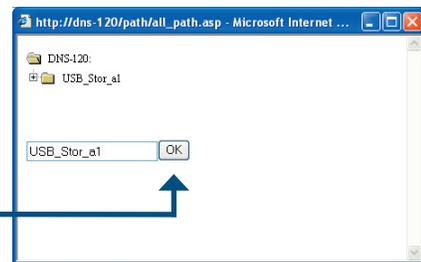


Select a user from the drop-down menu or check **All Accounts**.

Click **Open** to select the folder you want to allow FTP access to. Check **Root** to assign access to both USB drives at once.

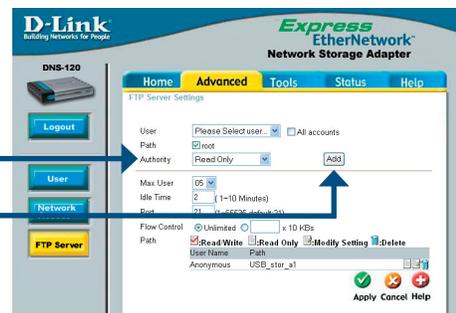


If Root is not checked, select the folder and click **OK**. Click the **+** sign to expand the folder tree.



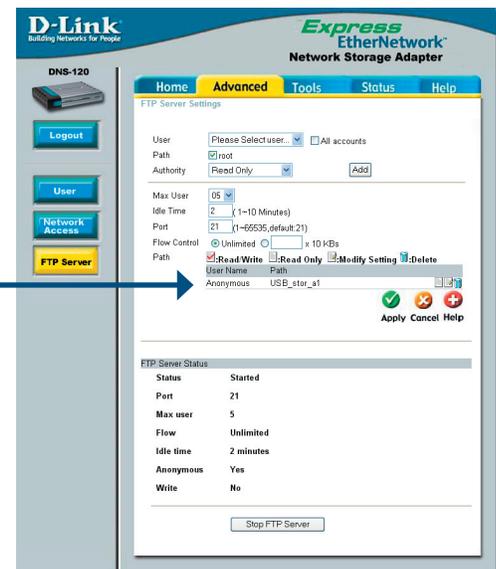
Select **Read Only** or **Read/Write**.

Click **Add**.



Advanced > FTP Server (continued)

The rule will be listed under Path. The rule shown will allow an Anonymous user access to the root folder on the drive with Read-Only permissions.



You may edit a rule from the list by clicking on the  icon.

To delete a rule from the list, click on the  icon.

To access the FTP server from your local network, open a web browser and enter **ftp://dns-120** and press enter.

If you are behind a router, you will need to forward the FTP port to the DNS-120. Additional filtering and firewall settings may need to be modified on your router to allow Internet access to the DNS-120. Once the port is forwarded to the DNS-120, users from the Internet will enter ftp:// followed by the WAN IP address of the router (e.g. ftp://64.56.23.111).

If you are using a port other than 21, you must enter a colon (:) followed by the new port number in the URL to connect (e.g. ftp://ftp.mysite.com:3000).

Please consult your router's user manual for more information on port forwarding.

Tools > Admin

The Admin screen will allow you to change the Admin password.

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DNS-120

Logout

Admin

Time

System

Firmware

Home Advanced **Tools** Status Help

Administrator's Password
Set the administrator password here.

User Name

Password

New Password

Confirm Password

Apply Cancel Help

User Name: The user name is set to **admin**. You cannot change the user name.

Password: Enter the old password.

New Password: Enter your new password.

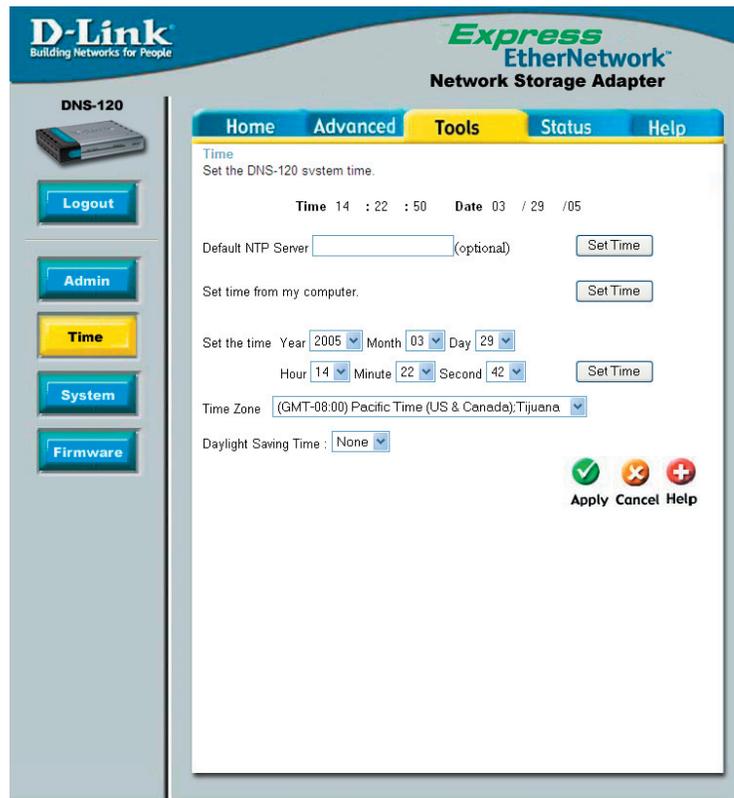
Confirm Password: Enter your new password again.

Apply: Click Apply to save your new password.

Tools > Time

This section will set the DNS-120 internal clock. It is important that accurate time is set for scheduled downloading and backup of files and folders.

Current Time is displayed in 24-hour format (e.g. 14:00 is 2:00pm). Current Date is displayed in Month/Day/Year format.



Default NTP Server: Network Time Protocol (NTP) synchronizes clocks on devices in the network, using Internet time servers. This field is optional.

Set time from my computer: Synchronize the time from the computer you are currently using. Click the **Set Time** button to set the DNS-120 internal clock to the local PC time.

Set the Time: Select the appropriate date and time from the drop-down boxes provided. Click the Set Time button to set the DNS-120 internal clock to the changes made.

Time Zone: Select the time zone.

Daylight Saving Time: Select to enable daylight savings.

Apply: Click Apply to save your settings.

Tools > System

The screenshot displays the configuration utility interface for the DNS-120. The top navigation bar includes 'Home', 'Advanced', 'Tools' (selected), 'Status', and 'Help'. The main content area is titled 'System Settings' and contains three sections:

- Restart:** A section with the text 'System Restart.' and a 'Restart' button.
- Defaults:** A section with the text 'Restore To Factory Default Settings.' and a 'Restore' button.
- Idle Time:** A section with two input fields: 'Config Inactivity Timer' (set to 5) and 'Download Schedule Inactivity Timer' (set to 5), both labeled '(Minutes)'.

At the bottom right of the main content area, there are three icons: a green checkmark for 'Apply', an orange 'X' for 'Cancel', and a red plus sign for 'Help'.

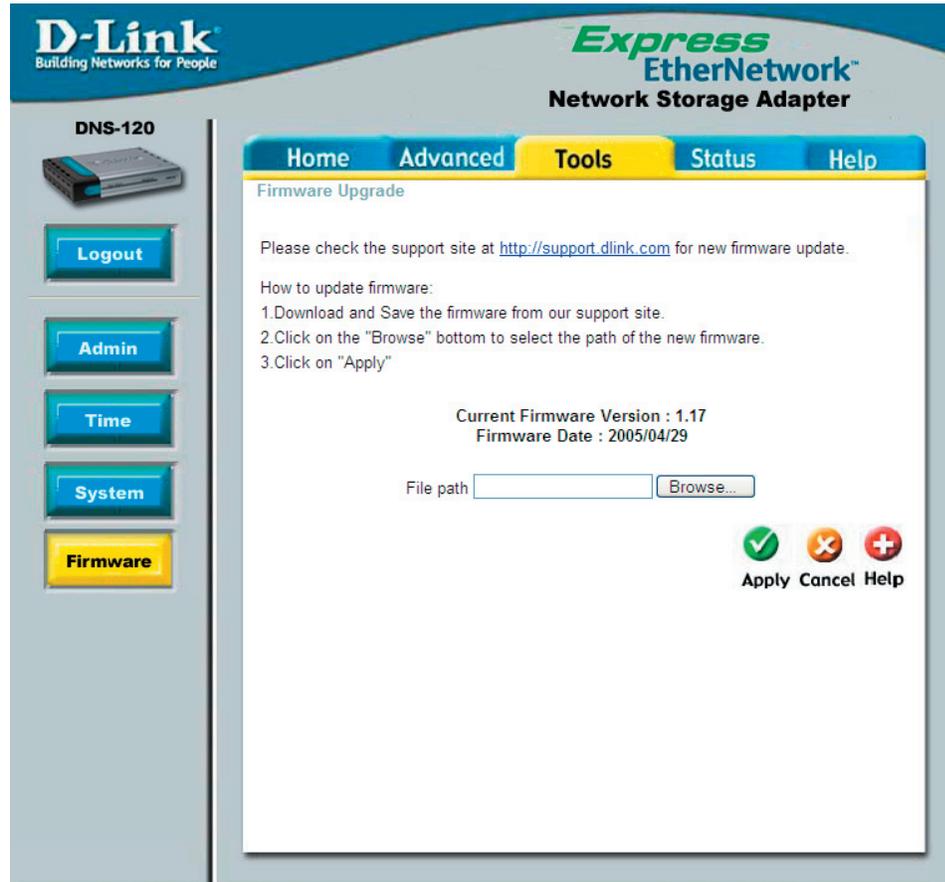
System Restart: Click **Restart** to reboot your DNS-120.

Restore to Factory Defaults: Click **Restore** to reset the DNS-120 back to the factory default settings - erasing all changes you have made.

Idle Time: Enter the time (in minutes) for the idle time in both the Scheduling and Config sections. Users will be logged off if the idle time is exceeded.

Apply: Click **Apply** to save your settings.

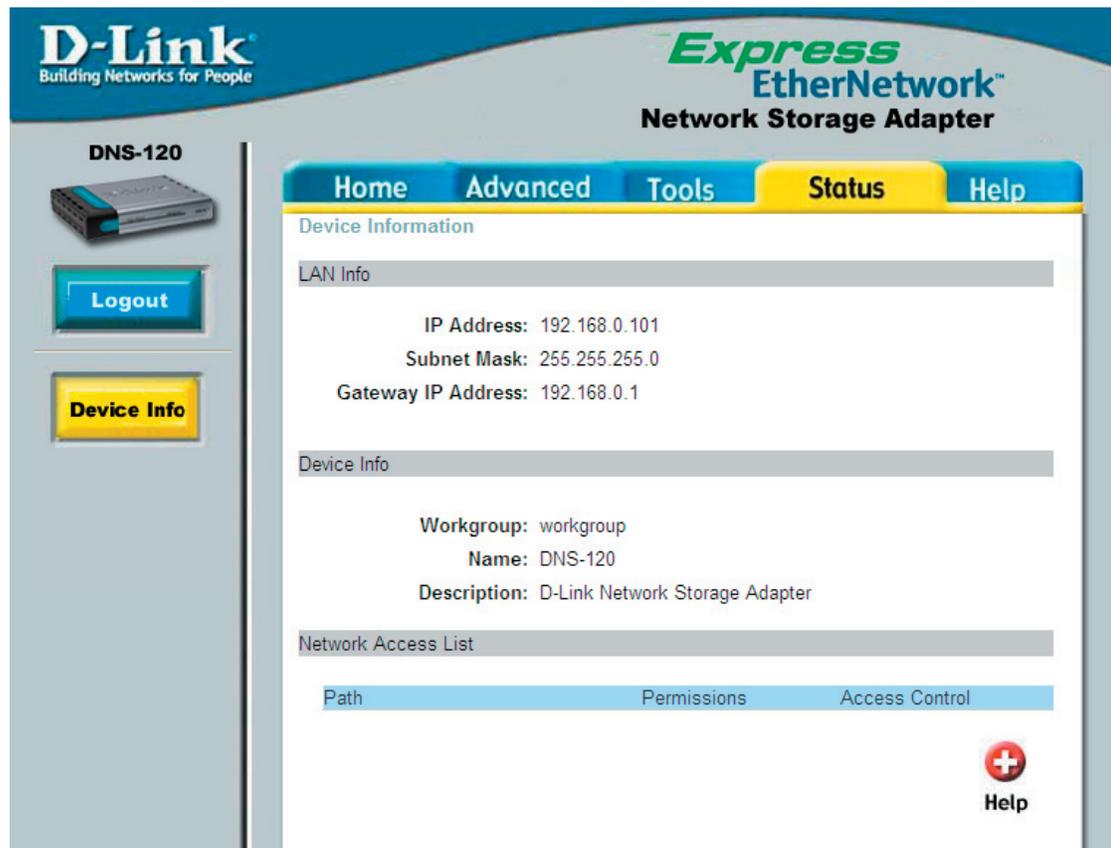
Tools > Firmware



Browse: After you have downloaded the firmware upgrade file to your hard drive, click **Browse** to find the upgrade. When you have found it, click **Open** in the browser window and click **Apply** in this screen to begin the firmware upgrade.

When the "upgrade is complete" message appears, click **Restart**. After the login screen appears, wait 30 seconds before logging into the DNS-120.

Status > Device Info



LAN Info: The LAN Info section will display the network settings of the DNS-120.

Device Info: The workgroup, name, and description of the DNS-120 will be displayed in this section.

Network Access List: Current shares and permissions will be displayed in this section.

Help



This section lists all of the available help topics for reference. Click on a topic to view the online help information.

Download Scheduling

This function will allow the user to set up scheduled folder or file downloads and backup jobs.

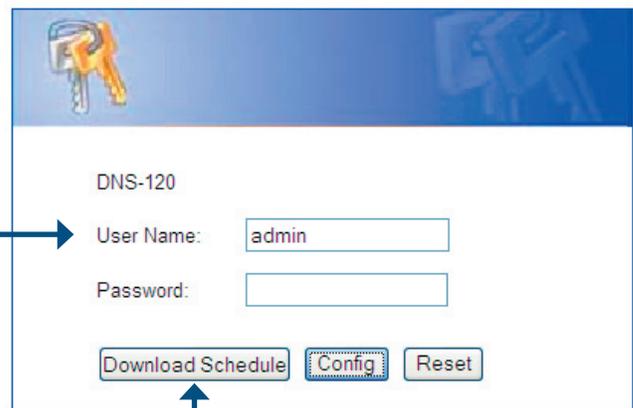
To log into the web-based configuration of the DNS-120, you may run the Easy Search Utility included on your CD or type in **http://DNS-120** into a web browser.

Open your Web browser and type **http://DNS-120** into the URL address box and then press the **Enter** or **Return** key.



The logon screen will appear.

Type **admin** for the username and leave the password field blank.



Click **Download Schedule**.

Download Scheduling (continued)

Login Method: Select the appropriate login method to access files for download:

- **Account** – If the download site employs restricted access, check this button and enter in the User Name and Password in the appropriate fields provided below this button.
- **Anonymous** – Click this button if this job is a local (drive/PC to drive) backup or the download site does not require any login information.

Type: Select the appropriate type of content for download or backup.

URL: Enter a valid URL to the remote location from which you wish to initiate a file or folder transfer.

To initiate a remote FTP or HTTP file or folder transfer, refer to the following examples of valid URL formats:

- **ftp://123.45.67.89/Test** (for a folder transfer)
- **ftp://123.45.67.89/Test/hello.txt** (for a single file transfer)
- **http://www.abc123.org/Test** (transfer from an HTTP site)

To initiate a local PC's (same network as DNS-120) shared file or shared folder transfer, refer to the following example of the valid URL format.

- **\\192.168.0.100\Test**

The local PC's internal IP address must be known and be accessible to the DNS-120 on the network.

Download Scheduling (continued)

Test: This button is provided to test the given URL to make sure it is valid as well as the user name/password authentication set in **login method**.

Local: This button will let you set the source file or folder from any USB drive connected to the DNS-120. When you click on the button, a window will appear with a graphical representation of the folder structure on the USB drive(s).

To select a folder, click on the plus sign next to the USB drive name to reveal all sub-folders available. When the folder you want is displayed, click on the folder name, scroll to the bottom of the folder structure, and verify the correct folder path is listed.

If the folder path is correct, click on the OK button to accept. If you wish to specify a single file to transfer, follow the above process to select the desired folder and then manually type in the file name at the end of the folder path displayed in the URL field.

Save To: Enter a valid destination folder path to an attached USB drive on DNS-120. Click on the **Open** button to begin the browsing process.

When: Enter the date and time you wish the file or folder transfer to commence. The current date and time according the DNS-120 internal clock will be displayed in the various drop-down boxes that appear as a reference point. The format of the date is Year/Month/Day. The time is set and displayed in 24 hour format.

Recurring Backup: If you wish to make unattended backups at regular intervals, then designate the appropriate interval (e.g. daily, weekly, or monthly) and specific time for the backup to occur.

Incremental Backup: By default all backups and file/folder downloads are in Overwrite mode. This means that files at the destination drive/folder with identical names will be written over by the source files (also known as "Full Backup"). If the Incremental Backup option is checked, then DNS-120 will compare identical file names at source and destination by Last Modified Date/Time and overwrite the destination if the source is more recent.

Note: Incremental Backup is not available for HTTP or FTP downloads as the Last Modified Date/Time is not accessible at the remote location.

Schedule List: The Schedule List will display all completed, active, and pending scheduled transfer or backup jobs. Additional options are available to initiate or cancel an active or pending backup job immediately.

Scheduling > Status

D-Link
Building Networks for People

Express EtherNetwork™
Network Storage Adapter

DNS-120

Logout

Scheduling **Status** **Help**

Schedule list

Status	%	Speed	Download Path	Save To	Time
	--	--	ftp://ftp.dlink.com/file.bt	USB_Stor_a1/Desktop	04/13/05 12:00

Refresh Help

The Status Schedule List will show pending or completed download events. Current download statistics, such as % completed and download speed are displayed for each event. The icons below represent the current status of each event.

- Download Successful
- Download Failed
- Download Pending
- Waiting
- Link File
- Download in Progress

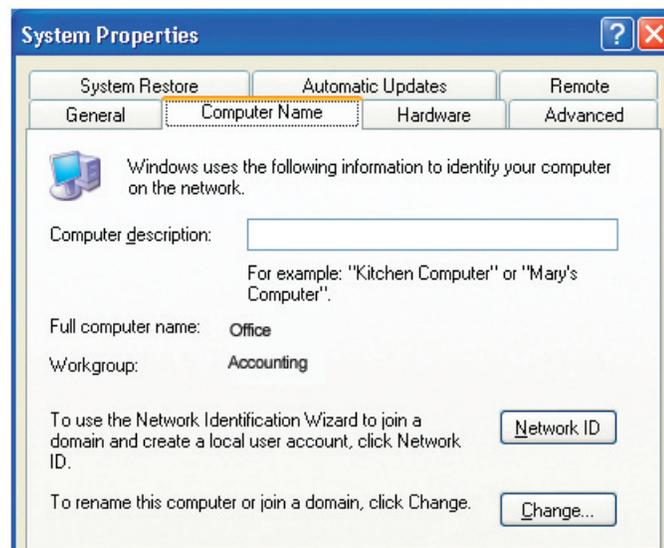
Networking Basics

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

- Click **Start** (in the lower left corner of the screen).
- **Right-click** on **My Computer**.
- Select **Properties** and click.



- Select the **Computer Name Tab** in the System Properties window.
- You may enter a **Computer Description** if you wish; this field is optional.
- To rename the computer and join a domain, Click **Change**.



- 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**.



Checking the IP Address in Windows® XP

The adapter-equipped computers in your network must be in the same IP Address range (see Getting Started in this manual for a definition of IP Address Range). To check the IP Address of the adapter, please do the following:

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



This window will appear:

- Click the **Support** tab. This screen will list your IP address, subnet mask, and the default gateway.
- Click **Close**.

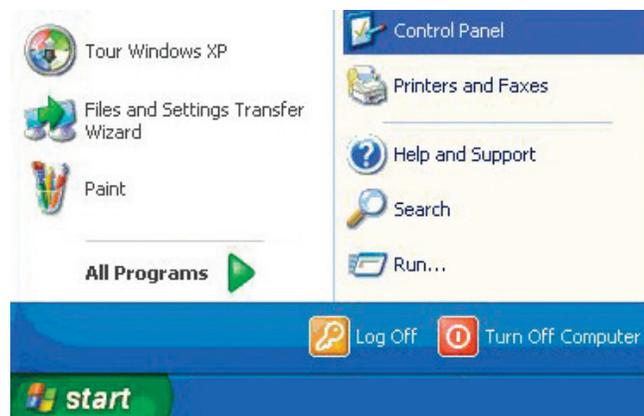


Assigning a Static IP Address in Windows® XP/2000

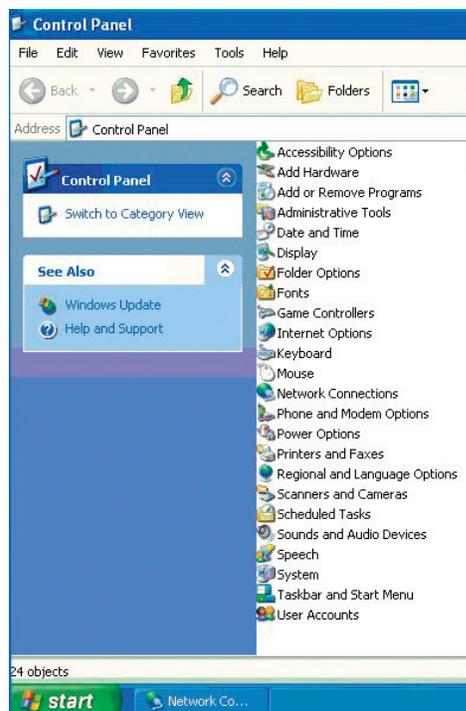
Note: DHCP-enabled routers will automatically assign IP addresses to the computers on the network, using DHCP (Dynamic Host Configuration Protocol) technology. If you are using a DHCP-capable router you will not need to assign static IP addresses.

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

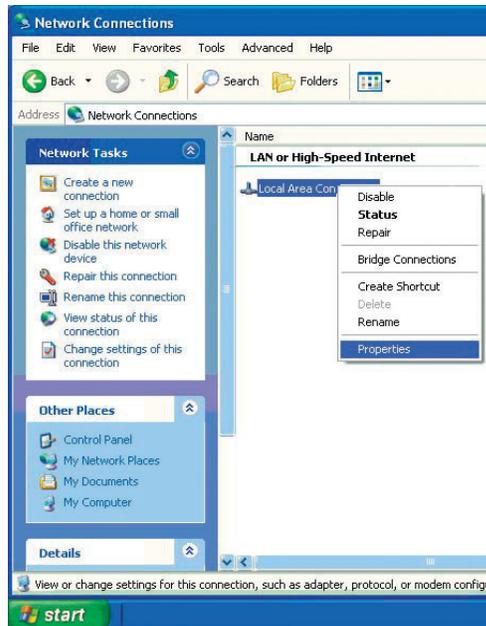
- Go to **Start**.
- Double-click on **Control Panel**.



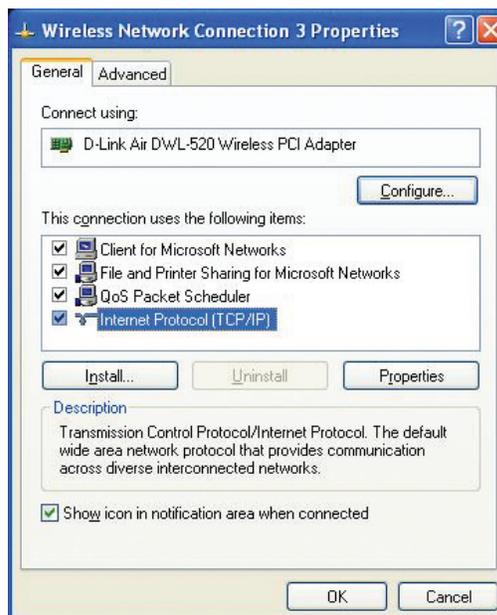
- Double-click on **Network Connections**.



- Right-click on **Local Area Connections**.
- Double-click on **Properties**.



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



Checking the Connection by Pinging in Windows® XP and 2000

Go to **Start > Run > type cmd**. A window similar to this one will appear. Type **ping xxx.xxx.xxx.xxx**, where **xxx** is the **IP address** of the router. A good connection will show four replies from the router, as shown.

```
F:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

F:\Documents and Settings\lab4>ping 192.168.0.50

Pinging 192.168.0.50 with 32 bytes of data:

Reply from 192.168.0.50: bytes=32 time=5ms TTL=30
Reply from 192.168.0.50: bytes=32 time=64ms TTL=30
Reply from 192.168.0.50: bytes=32 time=3ms TTL=30
Reply from 192.168.0.50: bytes=32 time=17ms TTL=30

Ping statistics for 192.168.0.50:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 64ms, Average = 22ms

F:\Documents and Settings\lab4>_
```

Troubleshooting

1. Why is the USB LED orange when I connect my USB drive?

- If the USB LED is solid orange after plugging in your USB hard drive, most likely the USB drive is formatted with an incompatible file system. The drive must be formatted with FAT, FAT32, or NTFS*.

* A NTFS formatted drive will be readable but cannot be written to by the DNS-120. How do I reset my DNS-120 to factory defaults?

2. How do I reset the DNS-120 back to the factory default settings?

- Locate the reset hole on the back on the unit. Using a paper clip, press and hold the reset button for about 5 seconds and then release. After the DNS-120 reboots it will be back to the factory default settings.

3. What is the default IP address of the DNS-120?

- The DNS-120 does not have a default IP address. You will need to use the Easy Search utility to assign an IP address to the DNS-120 (refer to page 10).

Technical Specifications

Standards

- IEEE 802.3
- IEEE 802.3u
- USB 1.1
- USB 2.0

Device Management

- Web-Based – Internet Explorer v6 or later; Netscape Navigator v7 or later; or other Java-enabled browsers.

Ports

- 1 10/100 Ethernet Port
- 2 USB 2.0 Ports
- Power

Power

- Output: 5VDC, 2.5A
- Max Power 36W, 100-110V

Weight

- 7.9oz (0.5 lbs)

LEDs

- Power
- Ethernet
- USB

Temperature

- Operating: 41°F to 122°F (5°C to 50°C)
- Storing: -4°F to 122°F (-20°C to 50°C)

Humidity

- 5%~90% (non-condensing)

Certifications

- FCC Part 15 Class B

Dimensions

- L = 5.6 inches (142mm)
- W = 4.3 inches (109mm)
- H = 1.2 inches (30mm)

Warranty

- 1 Year

Contacting 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 Web site, or by phone.

Tech Support for customers within the United States:

D-Link Technical Support over the Telephone:

(877) 453-5465

Twenty four 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 7:30am to 12:00am 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*

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Warranty

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 a 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 of 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 nonconforming 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. 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.

• Return Merchandise Ship-To Address:

USA: 17595 Mt. Herrmann, Fountain Valley, CA 92708

Canada: 2180 Winston Park Drive, Oakville, ON, L6H 5W1 (Visit <http://www.dlink.ca> for detailed warranty information within Canada)

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.

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

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:

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment; such modifications could void the user's authority to operate the 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. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment; such modifications could void the user's authority to operate the equipment.

For detailed warranty outside the United States, please contact corresponding local D-Link office.

Registration



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

Version 1.1
06/16/2005