D-Link[®]





ShareCenter[®] 2-Bay Network Storage

DNS-320

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Product Overview Introduction

The D-Link ShareCenter[®] DNS-320 2-Bay Network Storage, when used with internal SATA drives, enables you to share documents, files, and digital media such as music, photos, and video with everyone on the home or office network. Remotely accessing files through the Internet is also possible with the built-in FTP server and Web File server. Whether you are allowing access locally or over the Internet, keep data safe by only giving rights to specific users or groups. When configuring the ShareCenter[®], you can create users and groups and assign them to folders with either read or read/write permissions. This is ideal for an office environment with employee-specific sensitive data or for the home where you can ensure your children will only have access to age appropriate material. The ShareCenter[®] will be available to any computer (PC, MAC, or Linux-based) on your network, without the need to install any software on the computer.

Back up your music, photo, and video collections to the ShareCenter[®] for safekeeping. Then, enjoy the benefits of the built-in DLNA Certified[™] media server as you stream digital content to compatible media players (such as the D-Link's Boxee Box). This feature is highly convenient as it allows you to turn off a computer that would normally be needed for the same function.

The availability of four different hard drive modes (Standard, JBOD, RAID 0, RAID 1) allows you to choose the configuration best suited to your needs. Standard mode creates two separately accessible hard drives. JBOD combines both drives in linear fashion for maximum space efficiency. RAID 0 combines both drives in a 'striped' configuration, which provides the highest performance when using a Gigabit Ethernet connection. RAID 1 causes the drives to mirror each other, providing maximum protection. If one drive fails while configured as RAID 1, the unaffected drive continues to function as a single drive until the failed drive is replaced. The new drive will then be re-mirrored, allowing the ShareCenter[®] to return to its full protection.

1 Hard Drive(s) not included.

2 D-Link cannot guarantee full compatibility or proper playback with all codecs. Playback capability depends on the codec support of the UPnP[™] AV media player.

Package Contents

- D-Link ShareCenter[®] DNS-320
- CD-ROM with Manual and Software
- Quick Installation Guide
- Power Adapter
- Power Cord
- CAT5 Ethernet Cable

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

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

System Requirements

For best results, the following minimum requirements are recommended on any system used to configure and use the ShareCenter:

- Computer with: 1GHz processor / 512 MB RAM / 200 MB available space / CD-ROM drive
- Internet Explorer version 7, Mozilla Firefox 3 or Apple Safari 4 and above
- Windows[®] XP (with Service Pack 2 or higher), Vista[®] or Windows[®] 7
- 3.5" SATA Hard Drive(s)

Features

The DNS-320 is an easy to install data storage platform used for remote access through a local network or from the Internet. This ShareCenter[®] supports up to 2 SATA hard drives and includes the product features listed below:

- Two Hard Drive Bays for 3.5" SATA Hard Drives
- Gigabit Ethernet Connectivity
- Simplified Hard Drive Installation Process
- USB port support External Storage Device, Printer Server, UPS Monitoring
- Four Hard Drive Configurations: Standard, JBOD (Linear), RAID
 0, and RAID 1
- Supports RAID Migration: Standard to RAID1
- HDD S.M.A.R.T test
- Supports NFS/AFP.
- Supports DDNS
- Supports UPnP, Bonjour
- Supports PnP-X / LLTD
- Built-in FTP Server for File Access Over the Internet
- FTP Server supports FTP over SSL/TLS and FXP
- Supports Uni-code for both Samba and FTP Server
- Scheduled Downloads from Web or FTP Sites
- Supports P2P Downloading
- Supports Local Backup
- Full or Incremental Backups
- Supports Apple Time Machine
- Supports USB Copy Function
- Supports FAT16/32, NTFS (Read only) for USB external Storage
- Users and Groups Can Be Assigned to Folders with Read or Read/Write Permissions
- Quotas For Users and Groups

- Supports ISO mount Shares
- Power Management for Conserving Energy and Extending Hard Drive Life
- Supports Auto Power Recovery
- Supports Scheduled power off
- UPnP AV Server for Streaming Music, Photos, and Video to Compatible Media
- Designed for easy installation and allows remote access to important data via LAN or WAN.
- iTunes Software will be able to automatically find and play music directly from the DNS-320
- D-Link Storage Utility
- Configurable by Web Browser
- Supports HTTPS Management Function
- Network Recycle Bin
- Supports Yahoo! Widget
- Supports System Logging/FTP Logging
- Automatic E-Mail and SMS Notifications
- Supports Remote File Access





COMPONENT	DESCRIPTION		
HDD1/HDD2 LED	These lights will be solid BLUE when drives are connected but inactive The lights will blink when the drives are being accessed, formatted or synchronized. They will illuminate AMBER if a drive has failed.		
USB LED	This light will illuminate when a USB device is inserted into the USB Port. When there's traffic this light will blink.		
USB Port	This is the USB Port. Devices like a USB Print Server, UPS or USB drive can be inserted here.		
Front Latch	This latch can open and close by simply pressing it.		
Power LED	This light will illuminate when this ShareCenter [®] is powered on.		
Power Button	Press once to power on the device. To power down, press and hold the button until it begins to blink.		
USB Copy / Unmount Button	Press 1~3 seconds to copy data from a USB drive to your ShareCenter®F. Press and hold 5 seconds to unmount a USB drive.		

Rear Panel (Connections)



COMPONENT	DESCRIPTION		
Cover Lock	This lock is used to remove the cover when unlocked. Locking it will restrict the removal of the top cover.		
Cooling Fan	The cooling fan is used to cool the hard drives and features speed control. When the unit is first powered on the fans rotate at a low speed and rotate at a high speed when the temperature rises above 49 °C.		
Reset Button	Press this button for more than 5 seconds to reset the unit to factory defaults.		
Power Receptacle	Connect the supplied power cord to the receptacle.		
Gigabit Ethernet Port	Use the Gigabit Ethernet Port to connect the device to the local network. The port is equipped with both a LAN LINK (R) and Traffic LED (L) to indicate connectivity and traffic respectively to the local LAN		
Security Lock	This lock can be used to tie the ShareCenter [®] to the desk to prevent theft. Cables are sold separately.		

Getting Started ShareCenter Software CD

To get started with the ShareCenter[®] Setup Wizard, insert the supplied CD into your CD-ROM drive:

Click the **Install** button to start the ShareCenter[®] Setup Wizard.



Installation Setup Wizard

The Setup wizard will walk you through the configuration of your ShareCenter® device.



Note: The computer used to access the ShareCenter[®] web-based configuration manager must be on the same subnet as the ShareCenter. If your network is using a DHCP server, the ShareCenter[®] will automatically be in the same subnet.

Install the Hard Drives

This step shows you how to open your ShareCenter so that you can install one or two hard drives. Click **Next** to continue.



Slide either one or two hard drives into the open hard drive bays of your device. Click **Next** to continue.



Once the hard drives are installed, you can attach the top cover. Click Next to continue.



A standard CAT5E Ethernet cable with a RJ-45 connector is needed to connect your ShareCenter[®] to your network. Click **Next** to continue.



Power and Device Selection

Connect the power adapter to the power receptor on the back of the device. Press the power button located under the faceplate LEDs to turn on the device. Click **Next** to continue.



With the power on check that the Power LED is solid. If it is solid, answer **Yes** to the confirmation window otherwise select **No** and wait for the power connection to the ShareCenter. If the connection is good then check that the hard drives are installed correctly and have no other issues. Click **Next** to continue.

Note: When you select your device from the list, it will cause the LEDs to blink to confirm the device selection.



Admin password

This window requests the Admin (administrator) password. If this is the first installation of this device then the password will be blank. Click **Next** to continue.



In this step you can create a new password for the Admin username. It is recommended you set a password however you may also leave the fields blank. Click **Next** to continue.



Network Setup

You may use either Static IP or DHCP to configure the IP network settings of the ShareCenter[®]. If you select Static IP then input the IP network settings. Click **Next** to continue.

D Setup Wizard - 🗆 × **D-Link** ShareCenter Setup Wizard 1 Install NAS Configure Device IP If you want to set an IP address for your ShareCenter please select "Static IP" and $2^{\text{Setup}}_{\text{NAS}}$ enter the required information. Otherwise click NEXT. 3 Complete OHCP Client Static IP 10.78.62.13 IP Address: 255.0.0.0 Subnet Mask: 10.78.62.1 Gateway 172.16.10.100 DNS1: DNS2: 172.16.10.99 PREV NEXT 🕨 Copyright @ 2010-2012 D-Link Corporation Inc. All rights rese

D Setup Wizard - 🗆 × **D-Link** ShareCenter Setup Wizard 1 Install NAS **Configure Device Information** If you have a workgroup other than your Operating System's default, or if you want to $2^{\text{Setup}}_{\text{NAS}}$ customize the device name and description of your ShareCenter, please enter the information below. Otherwise click NEXT. 3 Complete Workgroup: workgroup d-link2222-a Name: Description: DNS-320 NEXT 🔶 Copyright @ 2010-2012 D-Link Corporation Inc. All rights reserved

If you want your ShareCenter[®] to be part of a Windows Workgroup network, enter the parameters requested or leave the default settings that appear initially in the window. The name will be used whenever you map one of the ShareCenter[®] volumes as a Network Drive. Click **Next** to continue.

Dynamic DNS

Click on the **Yes** radio button if you already have a DDNS account to use for the ShareCenter[®] DDNS settings. If you do not have a DDNS account or do not want to use one, click on the **No** Radio button. Click **Next** to continue.





🔰 Setup Wizard		- - ×
D-Lin l	ĸ	ShareCenter Setup Wizard
1 NAS 2 Setup NAS	0	DNS Settings unt information so that you can connect to your NAS using Id of an IP address.
3 Complete		
	Copyright @ 2010-2012 D-Li	ink Corporation Inc. All rights reserved.

DDNS Account and System Time

If you want a DDNS account to use with your ShareCenter[®], D-Link provides a free DDNS account by clicking on the web link shown. You will need to do the following:

- Create an account with a username and password.
- Create a hostname that the DDNS service will use to track your device no matter what the Local Network WAN settings are (i.e. public IP address).
- Configure your device with the hostname and DDNS service provider details.
- Configure your router to forward port 80.

Follow the steps listed here in order to create a DDNS account and configure your LAN equipment and ShareCenter[®] to work with the new settings.

Configure the time, date and time zone settings here. Select the time zone from the drop-down menu. You can set the time and date manually, from a NTP server or from the computer's settings.

н	ow to apply and configure a DDNS account
1	. Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com
2	. Create an account You first need to create an account. After entering your user information, you will be sent an e-mail to verify your e-mail address and confirm your account. You can then log in. You can also use this usernam and password at www.dyndns.com
3	. Create a hostname After your account is confirmed, login. Click the add host link, fill in a host, and then click add If you create a DNS query for the hostname, you will get the IP address back that you entered
4	Configure your NAS To make sure that your hostname always matches your IP address as it changes, your NAS has an update client that monitors your IP address and will update the hostname should the address change. Enter your username, password, and hostname. Select an appropriate DDNS server from th list. Your NAS should start updating.
5	. Configure your Router To enable this function, port number 80 needs to be opened to the NAS from your local route setup.



E-mail Settings and Volume Information

You can configure messages to be sent alerting you to certain operational conditions and drive status conditions to your e-mail account. These alerts can prove helpful with the management and safeguarding of important data.

Enter your e-mail information and settings and then click **Next** to continue. If you do not want to configure your e-mail settings, click **Skip** to continue.

This step is informational and shows any currently configured Volumes previously setup on the ShareCenter[®]. Click **Next** to continue.





RAID Configuration and Drive Mapping

Select one of the Volume File Systems type. Clicking on each file system type radio button will give a description below.

For more information concerning the different RAID Disk Formats please refer to "What is RAID?" on page 98

Click Next to continue.



This step allows you to map the volume(s) created as network drive(s) on your computer. Click **Next** to continue.



Configuration Summary and Drive Formatting

Review your volume configuration summary details here before clicking next and starting the drive format. If necessary use the **PREV** button to go back and reconfigure the RAID configuration of the volume(s). When you click **NEXT** a warning message will appear to confirm you want to format the drives as all the data on the drives will be deleted. Click on the **No** button if you are unsure.



During the hard drive formatting the wizard displays percentage complete bars.

D Setup Wizard	. 🗆 🖂
D-Lin	k ShareCenter Setup Wizard
	Formatting Hard Drives
2 ^{Setup} NAS	The drives in your device are now being formatted, please wait a moment
3 Complete	Volume_1 formatting
	35%
	PREV NEXT
	Copyright @ 2010-2012 D-Link Corporation Inc. All rights reserved.

Format Complete

The wizard will show this window if the hard drive format(s) are successful. Click **Next** to continue.



The final window of the installation wizard shows successful completion. Your device is now installed and ready for use. Your drives are network mapped from using the wizard so you will be able to access them under you *My Computer* icon.

D Setup Wizard	1 ~°		
		Share	Center Setup Wizard
1 Install NAS	Setup Is Complet		vour ShareCenter
2 ^{Setup} NAS	completed the installation of you		,
	Name:	d-link2222-a	
3 Complete	IP Address:	10.78.62.13	
	Current Time Zone:	(GMT+08:00)	Beijing, Chongqing, Hong Kong,
	Current Time:	6:51:17 1/1/2	000
	Total Drive(s):	2	
	Volume Name:	Volume_1	Volume_2
	RAID Type:	Standard	Standard
	Total Hard Drive Capacity:	750GB	750GB
	Drive letter:	Z:	Y:
	Click on FINISH to exit the setup.		
			FINISH
	Copyright © 2010-2012 D-Link Corporati	on Inc. All rights reser	rved.

D-Link Storage Utility

When first powered on, during the initial boot sequence, the device will wait to be assigned an IP address via DHCP. If it does not receive a DHCP assigned IP address the Auto-IP process will assign a 169.254.xxx.xxx address to the device If you want to change the IP address before logging in or are unable to connect to the ShareCenter[®] IP address, you can use the Storage Utility provided on the product CD to locate the device on your network and make any needed changes.

Network Storage The D-Link Storage Utility displays any ShareCenter devices it detects **Device:** on the network.

Refresh: Click to refresh the device list.

Configuration: Click **Configuration** to access the Web-based configuration of the ShareCenter.

LAN: Configure the LAN Settings for the ShareCenter here.

Apply: Click Apply to save and activate the changes to the LAN Settings.

Drive Mapping: Volumes available for mapping are displayed here.

Available Drive Select an available drive letter. Click **Connect** to map the selected volume. Letters: Click **Disconnect** to disconnect the selected mapped volume.

About: Click About to view the software version of the Easy Search Utility.

Exit: Click Exit to close the utility.

Name	P	Netmask	Refresh
dlink-E15634	-	255.255.255.0	Keiresii
dlink-FFAF3	5 192.168.1.116	255.255.255.0	Configuration
LAN			,
IP:	192 . 168 . 1 .	116 Receive	DHCP: Enable
Netmask :	255 . 255 . 255 .	0	Apply
Gateway :	192 . 168 . 1 .	1	
Drive Mappi Volume Volume_1 Photos	ng Name Loo	cation	Available Drive Letters Z: Connect Disconnect

Select the device from the list and click the **Configuration** button. This will launch the computer's default web browser and direct it to the IP address listed for the device. Make sure the browser is not configured to use a proxy server.

Note: The computer used to access the ShareCenter web-based configuration manager must be on the same subnet as the ShareCenter. If your network is using a DHCP server and the computer receives IP settings from the DHCP server, the ShareCenter will automatically be in the same subnet.



Configuration Web UI Login

The Login screen will appear:

will appear:	ShareCenter [™] by D-Link
Select System Administrator and enter the password you created during the Setup Wizard.	Please Select Your Account: • System Administrator(Admin) • Others : Password: • Remember Me • SSL Login

Note: The computer, used to access the web-based configuration, manager must be on the same subnet as the ShareCenter. If your network is using a DHCP server and the computer receives IP settings from DHCP, the ShareCenter will automatically be in the same subnet.

Web UI General Layout

If a hard disk volume has not been created, then the ShareCenter Web UI defaults to the Management tab. Once a volume is created, then the web UI defaults to the My Favorites tab. The configuration icons are located in the tabs at the top of the page. The icons available for configuration under each of the tabs include:

My Favorites - a user-configurable area where:

• Users can add customized access to preferable functions into My Favorites in order to give quick access to these functions.

Applications - Configuration for:

- FTP/HTTP and P2P Downloads.
- Remote and Local Backups.
- The Web File Server.
- Other applications which may be added to the page.

Management - Contains the:

- **Setup Wizard** Step-through settings for accounts, time and date, and connectivity.
- **Disk Management** Configures the Volume Setup and perform Disk Diagnostics.
- Account Management Configures the Admin Password, Users, Groups, Quotas and Network Share Folders.
- Network Management Configures the LAN settings and Dynamic DNS.
- Application Management Configures File Sharing protocols and Add-On management.
- System Management Configures the Time and Date, Device, System Settings, Power Management, Email Alerts, Logs, and Firmware settings.

These icons and their configuration sub-menus will be discussed in detail in the following pages of this manual.

Note: After logging in to the ShareCenter for the first time it is recommended to add a password to the admin account.



Management

This tab contains the Setup Wizard, Disk Management, Account Management, Network Management, Application Management, System Management and Status Icons. Click each of the icons to see the submenus.



Setup Wizard (Web UI)

The ShareCenter[®] has a System Wizard that allows you to quickly configure some of the basic device settings. Click the **System Wizard** icon to start the Setup Wizard.

Click the **Run Wizard** button to start the setup wizard.

Click Next to continue.





It is recommended you set an admin password here. Enter the new password and re-enter it for confirmation. Click **Next** to continue.



Set the appropriate Time Zone for your location. Click **Next** to continue.



Edit or change the LAN settings. Selecting **DHCP Client** will cause the device to obtain an IP address from the local DHCP server such as a router. Selecting **Static IP** requires you to assign the IP information manually. Click **Next** to continue.

Step 3: Set LAN Connection Type Select your connection type below. If you plan to set your IP Statically, verify that all information in the fields is correct before proceeding. Click Next to continue. O DHCP Client Static IP IP Address 10.78.62.13 Subnet Mask 255.0.0.0 Gateway IP Address 10.78.62.13 DNS1 172, 16, 10, 100 DNS2 172.16.10.99 Next Skip Exit Previous

Enter your workgroup, name and description, or leave the default values and click **Next** to continue.



Select **Account** and enter your e-mail parameters in the boxes to send event alerts from the device. Click **Next** to continue.

Click **Finish** to save your settings and complete the wizard.

You may click the **Previous** button to go back and edit your settings or click **Exit** to end the wizard <u>without</u> saving the settings.

Step 5: Configure E-mail Settings

Step 6: Finish

Enter your E-mail account information below. This information is used to E-mail yourself or others status information from the NAS device such as Space Remaining, Temperature, device logs etc. Once all the information is entered, you can click the **Test E-Mail** button to verify that your settings are correct. When finished, click **Next** to continue.

Login Method	
User Name	
Password	
Port	25
SMTP Server	
Sender E-mail	
Receiver E-mail	
SMTP Authentica	ation
	Previous Next Skip Exit



Disk Management Hard Drive Configuration

To setup the Hard Drive RAID configuration of your ShareCenter®, click on the Management tab and then the Disk Management icon. Select the Hard Drive Configuration menu item on the left of the window. This menu will allow you set the RAID type and format your hard drives.

Hard Drive: Configuration	Your ShareCenter [®] hard drive can be configured and formatted in various configurations here.
Current Raid Type:	If the drives are already formatted the configuration will be displayed here.
Set RAID type and Re-Format:	Click on this button to launch a wizard to allow you to select the RAID configuration and format the drives. Refer to the section titled "What is RAID?" on page 98 for more information about RAID.
Auto-Rebuild Configuration:	If you selected RAID 1 as the configuration option then set the Auto-Rebuild function here using the radio buttons.
Enable Auto-Rebuild:	Enabling Auto-Rebuild will rebuild a failed RAID 1 drive when a new drive has replaced the degraded one.
Disable Auto-Rebuild:	If you do not want to automatically rebuild drives after a failure when using the RAID 1 functionality then you can check this option.
	Note: You can still rebuild a drive using the RAID 1 functionality however you must initiate the rebuild manually.
Manual Rebuild Now:	If you have disabled Auto-Rebuild then you can use

the Manual Rebuild option by clicking this button.



Hard Drive Configuration Wizard

When you click the **Set RAID type and Re-Format** button in the Disk Management-Hard Drive Configuration menu, a wizard will launch allowing you to format your drives and create the RAID format. The following is an example of a RAID1 configuration:

Initially the steps of the configuration process are shown. You must decide on the RAID type you would like to format your HDDs with. Click the **Next** button to continue or click **Exit** to cancel.

This screen displays the currently installed HDD information. Any data on the installed hard drives will be lost by the formatting. Click **Next** to continue.

Welcome To Hard Drive Configuration Wizard				
This section allows you to change the hard drive configuration or drive. Notice that the data stored in formatted drives will be era dicking on Next .				
1.Physical Disk Information				
2.Select A RAID Type				
3.Volume Configuration Summary				
4.Formatting Hard Drive(s)				
5.System Is Updating				
6.Setup Completed				
	-			
	Next Exit			

Step 1 : Physical Disk Information

This section allows you to change the hard drive configuration or to format the newly inserted hard drive. Notice that the data stored in formatted drives will be erased during the process. Begin by clicking on **Next**.

Pervious

Slot	Vendor	Model	Serial Number	Size
R	Seagate	ST3750330AS	9QK02X39	750 GB
L	Seagate	ST31000528AS	6VP0T8HC	1000 GB

Section 4 - Configuration

Select the format desired by clicking on the RAID type box to highlight it in blue. In this example the maximum data protection option of RAID 1 is selected. Click **Next** to continue.

If you have selected RAID 1 then the wizard will display this step to enable or disable Auto-Rebuild. Auto-Rebuild will automatically rebuild a failed disk drive if it has been replaced with a new one. Set to disabled if you prefer to start this process manually. Click **Next** to continue.

Step 2 :Select A RAID Type

In this step,Please select the RAID type you need.





Section 4 - Configuration

If you select a RAID 0 or 1 option then you need to determine the size of the RAID volume. Any extra space will be formatted as a JBOD volume. Click **Next** to continue.

Note: If you select **Leaving the remaining disk space for future**, you can format the JBOD partition at a later time.

 Step 2-2 :RAID Size Settings

 Available capacity of add 1 volume: 747 GB

 Enter the desired capacity of RAID 1 volume: 747 GB

 The remaining space will become a JBOD (Linear) volume.

 Remaining space: 253 GB

 Image: Comparison of the remaining disk space for future.

 0 GB

 Pervious
 Next

A Volume Configuration Summary is displayed. Check the table and click **Next** to format the drives. Otherwise click the **Previous** button to make changes to your configuration or click **Exit** to end the wizard.

Step 3 :Volume Configuration Summary

This section allows you to change the hard drive configuration or to format the newly inserted hard drive. Notice that the data stored in formatted drives will be erased during the process. Begin by clicking on **Format**.

Volume Name	Туре	File System	Size		
Volume_1	RAID 1	EXT 3	747 GB		
			Pervious	Format	Exit
			Pervious	FOITId	EXIL

Section 4 - Configuration

During the formatting process a progress bar is displayed.

Step 4 :Formatting Hard Drive(s)

This section allows you to change the hard drive configuration or to format the newly inserted hard drive. Notice that the data stored in formatted drives will be erased during the process.



When the formatting is completed the wizard displays the finished Volume Configuration table. Click **Finish** to end the wizard.

Step 6 :Setup Completed					
This section allows you that the data stored	ou to change the in formatted drive	hard drive configur es will be erased du	ation or to format ring the process.	the newly inserted	hard drive. Notice
Volume Name	File System	Mode			
Volume_1	EXT3	RAID 1			
				Fi	nish
S.M.A.R.T Test

S.M.A.R.T stands for "Self-Monitoring, Analysis, and Reporting Technology". This is a system on a hard drive used to monitor and report on the health of the drive. If the HD is grayed out, then it does not support S.M.A.R.T.

- S.M.A.R.T Test: To run the S.M.A.R.T test, select the hard drive you wish to perform the S.M.A.R.T test on. Then select whether to run a Quick or Extended S.M.A.R.T test. Then click Start to run the test. Click the Create Schedule button to run the test at a pre-determined time and date.
 - Quick Test: Runs a quick S.M.A.R.T test. The test usually takes less than 10 minutes. This test will check the electrical, mechanical, and read performance of the hard drive. The results are displayed as Passed/Failed on the web UI and can also be sent as an e-mail alert.
- **Extended Test:** Runs an extended S.M.A.R.T test. This test requires a lot more time to complete. However, it is a more thorough and complete test when compared to the Quick Test.
- Send result by Enable this function in order to have the results of the E-mail: S.M.A.R.T test sent to you by e-mail.
- Create Schedule: Click on this button in order to create a scheduled S.M.A.R.T test. You will be able to schedule a test on a daily, weekly, and monthly basis.



Schedule: By clicking the **Create Schedule** button the user can create a S.M.A.R.T. test schedule where this test will run automatically at the configured time.

Select the frequency (Daily, Weekly, Monthly) and the Time here. Click on the **Create** button to add a schedule.

Schedule List: In the window all the created schedule lists will be displayed.

Note: When performing a S.M.A.R.T. test, your hard drives will not be available over the network until it has completed testing.

Schedule	
Test Type : \odot Quick Test \bigcirc Extended Test	
Daily Time : 00 : 00 :	
Create	

▼Schedule List

Туре	Slot / Volume	Schedule	Delete

Scan Disk

Scan disk provides a method to test the disk's file system in your ShareCenter.

- Scan Disk: Scan Disk will scan your disks file system for errors and/or corruption. After completion, the test results will show Success or Failure. Click on the Scan Disk button to start the test. If the test fails you can try reformatting the drive and test again. Otherwise you will need 3rd party disk troubleshooting tools.
 - Volume: Use the drop-down menu to select the disk volume that you want to run the **Scan Disk** test on.
- Scan Disk ProgressIf you have started a Scan Disk test then a windowWindow:with a progress bar will appear to monitor the test.Click the Exit button to abort the test if required or
once the test has run 100 percent.





Account Management Users / Groups

The Users / Groups menu is used to create and manage user and group accounts. Up to 256 users and 32 groups can be created. By default, all users have read and write access to all folders but access rules can be created in the Network Shares menu.

- **User Settings:** Your hard drives can be configured and formatted in various RAID configurations here.
 - **New:** Click this button to launch a wizard that will walk you through adding a new user configuration.
 - **Modify:** Click on an existing user in the table so that it is highlighted in red and then click the **Modify** button to change the configuration of an existing user.
 - **Delete:** Click on an existing user in the table so that it is highlighted in red and then click the **Delete** button to remove a user from the configuration.



Adding New Users Wizard

The following section will describe how to add a new user on this device. To add a user click on the **New** button. A easy to configure wizard will be launched and look like the following:

Previous

This window welcomes the user to the setup wizard for adding or modifying a user. This wizard will guide the user through the steps of setup.

In this wizard the user will be able to:

1) Create a new user account.

2) Join a group.

3) Configure the appropriate network shares settings.

4) Configure the user quota.

5) View a summary of the configuration before completing the addition.

Click on the **Next** button to continue.

Click on the **Exit** button to discard the changes made and return to the User/Group window.

Step 1: Here you can enter the User Name and Password for the new user account. The password needs to be confirmed by re-entering the password in the Confirm Password field.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the User/Group window.



Next

Step 2: Here you can add this user account to a group. Select the appropriate Group Name by clicking the check box.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the User/Group window.

Step 3: Here the user can configure the appropriate Network Access settings for the user by simply selecting one of the following options: Read Only, Read/Write or Deny Access.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the User/Group window.

Group Name			
group1			~

Step 2: Join The User To A Group



- **Step 3-1:** Here the user can configure the application privileges assigned to this user. Select FTP. CIFs and AFP is set as default.
 - CIFS is short for Common Internet File System.
 - AFP is short for Apple Filing Protocol.
 - FTP is short for File Transfer Protocol.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the User/Group window.

Step 3-1: Assign Privileges - Access Methods Fill in the following fields: CIFS AFP FTP Previous Next Exit

Step 4: Here you can configure the Quotas settings for the user account. Enter the quota amount in the block(s) indicated in Megabytes. By entering 0Mb the quota will be set to unlimited.

Click on the **Previous** button to return to the previous window.

Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the User/Group window.



Step 5: Here you can confirm to create the new account.

Click on the **Previous** button to return to the previous window. Click on the **Finish** button to accept the change and complete the wizard. Click on the **Exit** button to discard the changes made and return to the User/Group window.

After the new account has been created, a window will appear that states the account was created successfully. Click on the **OK** button to continue.

Step 6: A final message appears indicating the user is successfully added to the ShareCenter configuration..



Adding New Groups Wizard

The following section will describe how to add a new group on this device. To add a group click on the **New** button. A wizard will be launched:

This window welcomes the user to the setup wizard for adding or modifying a group. This wizard will guide the user through the steps of setup.

In this wizard the user will be able to:

- 1) Create a new group.
- 2) Add a user to a group.
- 3) Configure the appropriate network shares settings.
- 4) Configure the quota settings.
- 5) View a summary of the configuration before completing the addition.

Click on the Next button to continue.

Click on the **Exit** button to discard the changes made and return to the User/Group window.

Step 1: Enter the name for your new group.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the User/Group window.





Step 2: Select the users you would like to add to your new group by checking the box.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the User/Group window.

Step 3: Assign the appropriate Network Access settings for this group by simply clicking one of the following options: Read Only, Read Write or Deny Access.

> Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

> Click on the **Exit** button to discard the changes made and return to the User/Group window.

Step 2: Join User To Group





- Step 3-1: Select the application privileges assigned to this group. Options to select are FTP. CIFS and AFP is set as default.
 - CIFS is short for Common Internet File System.
 - AFP is short for Apple Filing Protocol.
 - FTP is short for File Transfer Protocol.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the User/Group window.

Step 4: Configure the Quotas settings for this group. Enter the quota amount in the block indicated in Megabytes. By entering 0Mb the quota will be set to unlimited.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the User/Group window.

Step 3-1: Assign Privileges - Access Methods



Step 4: Quota Settings This section allows you to assign a quota to user to limit the amount of storage they are allocated. Volume_1 Quota Amount 0 Yolume_2 Quota Amount 000 MB (The value for unlimited blocks/inodes is zero)

Step 5: Verify the settings and click **Finish**.

Click on the **Previous** button to return to the previous window. Click on the **Finish** button to accept the change and completed the wizard.

Click on the **Exit** button to discard the changes made and return to the User/Group window.

After the new group has been created, a window will appear that states the group was created successfully. Click on the **OK** button to continue.

Step 5: Finish

The setting is complete. Click ${\bf Previous}$ to review and make more changes. Click ${\bf Finish}$ to save the current settings.

Group Name User Name Read Only	group2 user1,user2,grandma,user3
Read / Write	Volume_1,Volume_2,music
Deny Access	
Application List	FTP

Previous

Finish

Exit

Success: A final message appears indicating the group was created successfully and added to the ShareCenter[®] configuration.



Quotas

The ShareCenter[®] supports storage quotas for both groups and individual users. Assigning a quota to a group or user will limit the amount of storage they are allocated. By default, users and groups do not have a quota.

Click the **Enabled** button to enforce the quotas that are set in the Users / Groups management or the tables below.



In the User Quota Settings table you can view the current user usage and limit setting. Click on the blue font to set usage limits.

In the Group Quota Settings table you can view the current group usage and limit setting. Click on the blue font to set the limit.

Viser Quota Settings

No.	Lizza Nezza	Volun	ne_1	Volur	ne_2
INO.	User Name	Used	Limit	Used	Limit
1	user 1	0 MB	Unlimited	0 MB	Unlimited
2	user2	0 MB	Unlimited	0 MB	Unlimited
3	user3	0 MB	Unlimited	0 MB	2000 MB
Page:				Page: 1,	/1,Total Records:3

Group Quota Settings

	No.	Crawn Name	Volun	ne_1	Volun	ne_2
	NO.	Group Name	Used	Limit	Used	Limit
	1	group1	0 MB	Unlimited	0 MB	Unlimited
ľ	2	group2	0 MB	1000 MB	0 MB	2000 MB

Network Shares

The Network Shares page allows the user to configure shared folders and rights to specific users and groups. To be able to create new network access rules, the default rule must first be removed by simply selecting it and clicking on the **Delete** button. You can also mount .iso files in the ISO Mount Shares Setting. If a user has access to a mounted .iso file then that user will be able to read all the files within it.

Network Shares: / The Network Shares Settings window allows you to add, ISO Mount Shares: modify and remove both new and existing Network Share and ISO Mount Share Settings.

To add a rule click on the **New** button. To modify an existing rule click on the **Modify** button. To remove a rule click on the **Delete** button.

To select a rule, simply click on the rule and the entry should change to red.

At the bottom of the table the user can navigate through pages and also refresh the window by click on the **Refresh** button.

If at any point the user wants to reset the network access list to the default configuration, click on the **Reset Network Shares** button.



New Modify			_		
Share Name	Path	CIF	S FTP	NFS	Webday
/olume_1	Volume_1	Er	-6	-	-6
/olume_2	Volume_2	=7			
nusic	Volume_2/music	Ea	-6	•	-
nusic	Volume_2/music			-	-



Adding New Network Shares Wizard

The following section will describe how to add a new Network Share on the ShareCenter. To add a Network Share click on the **Add** button. A easy to configure wizard will be launched and look like the following:

Start: This window welcomes the user to the setup wizard for adding or modifying a network share.

In this wizard the user will be able to:

- 1) Select share folders.
- 2) Configure shared folder access rights.
- 3) Configure network access settings.
- 4) View a summary of the configuration before completing.

Click on the **Next** button to continue.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

Step 1: Select the folder you want to include in this network share by checking the box.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.



Step 2: Select which user accounts or group are allowed to access this folder(s). Select All Account to allow all accounts access to this folder. Select Specific User/Group to only allow certain users or groups access to this folder.

> Click on the **Previous** button to return to the previous window. Click on the Next button to accept the change and continue to the next window.

> Click on the Exit button to discard the changes made and return to the Network Shares Page.

Step 2: Shared Folder Access Rights Select users to access the shared folder All Accounts O Specific User/Group Previous Next

Step 2-1: Select the appropriate access rights for the share. Options to choose from are Read Only, Read Write and Deny Access. This procedure can also be used to block certain users from accessing certain folders.

> Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

> Click on the Exit button to discard the changes made and return to the Network Shares Page.



Step 2-2: If you select **Specific User/Group** in Step 2, then this step allows you to set the access rights for each **User** configured on the device.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

Step 2-2-1: If you select **Specific User/Group** in Step 2 then this step allows you to set the access rights for each **Group** configured on the device.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

Step 2-2: Select Users





Step 3: This step allows you to assign privileges to this share.

Opportunistic locks (oplocks) are a characteristic of the LAN Manager networking protocol implemented in the 32bit Windows family. Oplocks are guarantees made by a server for a shared logical volume to its clients. These guarantees inform the Client that a file's content will not be allowed to be changed by the server, or if some change is imminent, the client will be notified before the change is allowed to proceed. Oplocks are designed to increase network performance when it comes to network file sharing. However it is recommended to set the share oplocks to No (off) when using file-based database applications. When enabled, the file attribute "Map Archive" will be copied as the file is being stored on the device.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

- Step 3-1: Assign protocol privileges that a user can use to access this share. Options to choose from are FTP and NFS. CIFS and AFP are set as default.
 - CIFS is short for Common Internet File System.
 - AFP is short for Apple Filing Protocol.
 - FTP is short for File Transfer Protocol.
 - NFS is short for Network File System.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

Step 3: Network Shares Settings



Step 3-1-1: Select the FTP settings for this share. FTP access can be:

1) FTP Anonymous None (No Access).

2) FTP Anonymous Read Only (Limited Access).

3) FTP Anonymous Read/Write (Full Access).

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

Step 3-1-1: FTP Settings

FTP Anonymous None	
O FTP Anonymous Read Only	
O FTP Anonymous Read / Write	



Step 3-1-2: If you selected **NFS** as an access method to your network share then set the parameters below:

- Host Allowable host address that can access using NFS (* indicates all hosts).
- Root Squash Disables writing to the Root owned directories and files on the system when the user has root access privileges.
- Write provide write permission to the file system.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.



Step 4: Click Finish to save your settings.

Click on the **Previous** button to return to the previous window. Click on the **Finish** button to accept the change and complete the wizard.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

Step 4: Finish

Your settings are now complete. Review your settings below and then click the **Finish** button below to save the settings to your NAS.

Share Name Read Only	video			
Read / Write Deny Access	All Accounts			
Application List	FTP,NFS			
		Previous	Finish	Exit

Adding New ISO Mount Shares Wizard

The following section will describe how to add a new ISO mount on the ShareCenter. To add an ISO Mount click on the New button. A wizard will launch as shown below:



Setup: This wizard will guide the user through the steps of setup.

This wizard will allow you to:

1) Select an ISO file.

2) Share folder access rights.

- 3) Configure network access settings.
- 4) View a summary of the configuration before completing.

Click on the **Next** button to continue to the next window. Click on the **Exit** button to discard the changes made and return to the Network Shares Page.



Step 1: Select the ISO file(s) to mount.

Click on the **Previous** button to return to the previous window.

Click on the **Next** button to accept the change and continue to the next window. Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

Step 2: Assign access privileges to this ISO Mount share.

- Select All Accounts to assign the ISO Mount share read/deny privileges to all users.
- Select Specific User/Group in order to assign read/deny privileges to individual users and groups.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window. Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

Step 2-1: You can assign **Read Only** or **Deny Access** privileges to the ISO Mount share here. Click on the appropriate radio button for the privileges you would like to assign.

> Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window. Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

Step 1: Select ISO file(s)

Volume_1		
Volume_2		
i music		
🚞 ISO Files		
debian-500-i386-netinst.iso		
xpsp3_5512.080413-2113_cht_x8	J6fre_spcd.iso	
New		
Previous	Next Exit	
Trendas		





Step 3: You may add a comment that describes the ISO Mount Share.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

Share Name	Comment
xpsp3_5512.080413-2113_cht_x86fre_spcd	OS installer

- Step 3-1: Assign protocol privileges that a user can use to access this share. Options to choose from are FTP and NFS. CIFS and AFP are set as default.
 - CIFS is short for Common Internet File System.
 - **AFP** is short for Apple Filing Protocol.
 - FTP is short for File Transfer Protocol.
 - NFS is short for Network File System.

Click on the **Previous** button to return to the previous window. Click on the **Next** button to accept the change and continue to the next window.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.



Step 4: Click Finish to save your settings.

Click on the **Previous** button to return to the previous window. Click on the **Finish** button to accept the change and complete the wizard.

Click on the **Exit** button to discard the changes made and return to the Network Shares Page.

Step 4: Finish

Your settings are now complete. Review your settings below and then click the **Finish** button below to save the settings to your NAS.

Share Name Read Only Deny Access Application List	xpsp3_5512.080413-2113_cht_x86fre_spcd All Accounts - -
	-
Previous	Finish Exit

Step 5: Using the D-Link Storage Utility the ISO Mount Share can now be mapped to your computer so that you can access it.



Admin Password

- **Username:** The administrator user name is **admin**, and this cannot be changed.
- **Password:** Enter the current password. (Leave this blank if you have not set a password yet.)

New Password: Enter a new password.

Confirm Password: Enter the new password again for confirmation.

Account Management	_	
Users / Groups	Administrator Setting	
Quotas Network Shares	User Name Password	admin
Admin Password	New Password Confirm Password	
	Save Settings	Don't Save Settings

Network Management LAN Setup

The LAN Settings allows you to enable LLTD and to configure the Link Speed and the IP address as a DHCP client or Static IP.

IP Settings

- **DHCP Client:** Selecting DHCP Client will cause the DNS-320 to obtain an IP address from the local DHCP server.
 - Static IP: Selecting Static IP requires you to assign the IP information for the DNS-320 manually.
 - **IP Address:** Enter an IP address for your device. The IP address of each device on the local area network must be within the same IP address range and subnet mask.
- Subnet Mask: Enter the Subnet Mask. The default subnet mask is 255.255.255.0.
- Gateway IP Enter the Gateway IP Address for the device. The Gateway IP Address Address: is almost always the LAN address of your router. Most D-Link routers have a default LAN IP address of 192.168.0.1.
- DNS1/DNS2: Specify the first and second DNS Addresses for the device. The first DNS address is usually the LAN address of your router. A DNS Address will allow the device to resolve names into IP addresses. Click **Save Settings** when finished



Link Speed and LLTD Settings

- **Speed:** Displays the current Ethernet bit rate in Megabits per second.
- Link Speed: Select either Auto (Auto-Negotiate), 100 Mbps, or 1000 Mbps by clicking the appropriate radio button. Then click the **Save Settings** button to save the new settings.

Network Management	
LAN Setup Dynamic DNS Dynamic DNS Dynamic DNS	Auto () 100 () 1000 t Save Settings

LLTD: The device supports LLTD (Link Layer Topology Discovery) and is used by the Network Map application that is included in Windows Vista[®] and Windows[®] 7.

Select to enable or disable LLTD.

Network Management	
LAN Setup	IP Settings
	Link Speed Settings
Dynamic DNS	LLTD Settings
	LLTD O Enable O Disable
	Save Settings Don't Save Settings

Dynamic DNS

The DDNS feature allows the user to host a server (Web, FTP, Game Server, etc...) using a domain name that you have purchased (www.whateveryournameis.com) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter your domain name to connect to your server regardless of your IP address.

DDNS Settings

- **DDNS:** Select **Enable** or **Disable**.
- Server Address: Select a DDNS Server from the combo box on the right hand-side, or type in the server address manually.
- Host Name: Enter your DDNS host name.
- Username or Key: Enter your DDNS username or key.
- **Password or Key:** Enter your DDNS password or key.
- Verify Password or Re-enter your password or key. Key:

Status: Displays your DDNS status.

When the user clicks on the "Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com" link, the user will be re-directed to the D-Link DDNS page.

Here the user can create or modify a D-Link DDNS account to use in this configuration.

	DDNS Settings
LAN Setup	DDNS O Enable 💿 Disable
Dynamic DNS	Server Address << Select Dynamic DNS Server 💟
	Host Name
	Username or Key
	Password or Key
	Verify Password or Key
	Status
	Save Settings Don't Save Settings

Application Management

FTP Server

The device is equipped with a built in FTP Server. The server is easy to configure and allows users access to important data whether they are on the local network or at a remote location. The FTP server can be configured to allow user access to specific directories, and will allow up to 10 users to access the device simultaneously.

- Max. User: Set the maximum amount of users that can connect to the FTP server.
- Idle Time: Set the amount of time a user can remain idle before being disconnected.
 - **Port:** Set the FTP port. Default is 21. If you are behind a router, you will need to forward the FTP port from the router to the device. Additional filtering and firewall settings may need to be modified on your router to allow FTP Access to the device from the Internet. Once the port has been forwarded on the router, users from the Internet will access the FTP server through the WAN IP address of the router.
- **Passive Mode:** In situations where the device is behind a firewall and unable to accept incoming TCP connections, passive mode must be used.
 - Client Most standard FTP clients like Windows FTP, only support Language: Western European code page when transferring files. Support has been added for non standard FTP clients that are capable of supporting these character sets.
- Flow Control: Allow you to limit the amount of bandwidth available for each user.
 - **SSL/TLS:** Here the user can enable the SSL/TLS connection only.
 - **FXP:** Enable or Disable File eXhange Protocol to transfer files from one FTP server to another.

Note: In order to use FXP (File Exchange Protocol) for server-to-server data transfer, make sure to change the port from 21 to some other port as listed in the Port section of the Web UI. Also, make sure to open the corresponding port on your router and forward that port from your router to the device.

Max Users	10 💌
Idle Time	10 (1~10 Minutes)
Port	21 (1025 to 3688, 3690 to 49999, 65501 to 65535, Default 21)
Passive Mode	 Use the default port range (55536-55663) Use the following port range: 55536 ~ 55663 Report external IP in PASV mode External IP : 0 . 0 . 0 . 0
Client Language	ISO8859-1 << Western European (ISO8859-1)
Flow Control	O Unlimited
SSL/TLS	Allow SSL/TLS connection only
FXP	Enable Disable

UPnP AV Server

The device features a UPnP AV Server. This server provides the ability to stream photos, music and videos to UPnP AV compatible network media players. If the server is enabled, the device will be automatically detected by UPnP AV compatible media players on your local network.

Click the **Refresh All** button to update all the shared files and folder lists.

UPnP AV Server: Select Enable or Disable.

After enabling the UPnP AV Server option, the following window will appear.

In the window you will be able to add, delete and view existing UPnP AV Server shared folders.

- Add, Delete: To add a new folder to the shared list, click on the Add button. To delete an existing folder, click on the Delete button. To refresh the list, click on the **Refresh** button.
- **Refresh All:** Click the **Refresh All** button after adding new files to be used by UPnP AV compatible devices.



_				
VPnP	AV	Server	Enable/	Disable

UPnP A	AV Server	
	Add Delete Refresh All	
NO.	Shared Folder	
1	Volume_2/music	
<		
10	✓ I	O Displaying 1 to 1 of 1 items

iTunes Server

The DNS-320 features an iTunes Server. This server provides the ability to share music and videos to computers on the local network running iTunes. If the server is enabled, the device will be automatically detected by the iTunes program and the music and videos contained in the specified directory will be available to stream over the network. Click the **Refresh All** button to update all the shared files and folder lists.

iTunes Server: Select to enable or disable the iTunes Server.

- **Folder:** Specifies the folder or directory that will be shared by the iTunes server. Select root to share all files on all volumes, or click **Browse** to select a specific folders.
- **Password:** Sets password for the iTunes server. (Optional)
- MP3 Tag Here the user can select the MP3 Tag CodepageCodepage: used by this device. Currently the Codepage is set to Western European.
- Auto Refresh: Here the user can select the Automatically Refresh time.

Setup Wizard	Disk Management	Account Management	Network Management	Application Management	System Management	System Status
Application Mana	gement	▼īTunes Server S	Settings	-	-	
FTP Server UPnP AV Server ITunes Server		iTunes Server Folder	C Enable C	Disable		Browse
AFP Service NFS Service		Password MP3 Tag Codepage Auto Refresh		<< • (D	efault: Western Eu	ropean)
		Save Settin		't Save Settings	Refree	sh

After enabling the iTunes server on the device, launch iTunes. In your iTunes utility, select the device and enter the iTunes server password if required.

Source	Name	Time	Artist 🔺	Album	Genre	My Rating	
🌄 Library							
🕨 💽 dink-AD04C1 🛛 🗢							
🔹 90's Music							
🙀 My Top Rated							
🙀 Recently Added							
🙀 Recently Played					_		
🐞 Top 25 Most Played		Music Library	Password		×		
		Ther	nusic library requires a pass	word:			
		Pass	word:				
		B	emember password				
				DK Cancel			
					_		

🕞 Library	Intro	0	0:24	Aerosmith	0	Get A Grip 🔅	D F	Rock	4
▶ 👔 dink-AD04C1 🔶	Eat The Rich	0	4:10	Aerosmith	0	Get A Grip 🔅	D F	Rock	1
🕸 90's Music	🗹 Get A Grip	0	3:58	Aerosmith	0	Get A Grip 🔅	O F	Rock	
🔹 My Top Rated	Fever	0	4:15	Aerosmith	0	Get A Grip 🔅	O F	Rock	
Recently Added	Livin' On The Edge	0	6:07	Aerosmith	0	Get A Grip 🔅	O F	Rock	
Recently Played	🗹 Flesh	0	5:56	Aerosmith	0	Get A Grip 🔅	O F	Rock	
Top 25 Most Played	Walk On Down	0	3:39	Aerosmith	0	Get A Grip 🔅	O F	Rock	
a cop contration	Shut Up And Dance	0	4:55	Aerosmith	0	Get A Grip 🔅	O F	Rock	
	Cryin'	0	5:08	Aerosmith	0	Get A Grip 🔅	O F	Rock	
	🥑 Gotta Love It	0	5:58	Aerosmith	0	Get A Grip 🗧	O F	Rock	
	Crazy	0	5:16	Aerosmith	0	Get A Grip 🔅	O F	Rock	u
	🗹 Line Up	0	4:02	Aerosmith	0	Get A Grip 🔅	O F	Rock	
	✓ Amazing	0	5:56	Aerosmith	0		O F		
	🕑 Boogie Man	0	2:17	Aerosmith	0	Get A Grip 🗧	O F	Rock	
	🗹 Politik	0	5:18	Coldplay		A Rush Of Blood T 6			
	In My Place	0	3:48	Coldplay	0	A Rush Of Blood T 6	O F	Rock	
	Sod Put A Smile Upon Your Face	0	4:57	Coldplay		A Rush Of Blood T 6			
	The Scientist	0	5:09	Coldplay	0	A Rush Of Blood T 6	O F	Rock	-
	Clocks	0	5:07	Coldplay	0	A Rush Of Blood T 6	D F	Rock	
	🗹 Daylight	0	5:27	Coldplay	0	A Rush Of Blood T 6	O F	Rock	
	Sreen Eyes	0	3:43	Coldplay	0	A Rush Of Blood T 6	O F	Rock	
	Warning Sign	0	5:31	Coldplay	0	A Rush Of Blood T 6	O F	Rock	-
	A Whisper	0	3:58	Coldplay	0	A Rush Of Blood T 6	O F	Rock	
	A Rush Of Blood To The Head			Coldplay		A Rush Of Blood T 6			
	Amsterdam	0	5:19	Coldplay	0	A Rush Of Blood T 6	O F	Rock	
	S Drive	0	4:32	R.E.M.	0	Automatic For Th 6	O F	Rock	Ť

Select the device When prompted, enter in the iTunes server password. Click **OK**.

Media stored on the device will then be available for use in iTunes.

AFP Service

The ShareCenter supports Apple Filing Service for connectivity with MAC OS based computers. If you need to use AFP service enable it here otherwise leave it disabled to reduce CPU resource overhead.

AFP Service: Select enable to allow MAC OS based systems connect to your device using AFP protocol. Select disable to prevent unnecessary CPU resource depletion when AFP is not being used.

Save Settings: Click to save your AFP settings.

Note: Enabling AFP service will disable oplocks.



NFS Service

The device supports Network File System (NFS) service. To enable this multi-platform file system on your device enable it here. Otherwise disable the option to prevent unnecessary CPU overhead.

NFS Service: Select Enable to allow systems that support NFS to connect to your device using NFS protocol. Select **Disable** to prevent unnecessary CPU resource depletion when NFS is not being used.

Save Settings: Click to save your NFS settings.

Note: Applying NFS service to any Share will disable oplocks.



System Management

Language

This menu item allows you to install language packages onto your system. In addition, you can also install language packages to suit your local language needs.

- Languages: Click on **Browse** to search for the specific language pack you want to install. After selecting the language pack, then click **Apply** to install the language pack.
- Language In the languages window you will see a table where Pack List: the loaded language packs will be displayed and can be enabled at will by simply clicking the (>) "play" button. More than one language pack can be installed, but only one language pack can be used at a time.

System Management					
	▼Language				
Language	File Path: Browse Apply				
Time and Date					
Device					
System Settings	No. Module Name	Version	Status	Start/Stop	Delete
Power Management					
Notifications					
Logs					
Firmware Upgrade					
	10 🔽 Id d Page 1 of 1 🕨 M 🔇 Displaying 1 to 6 of 6 items				

Time and Date

The Time and Date page contains several different options for setting the device's internal clock. It is important to set an accurate time so that backups and downloads can be accurately scheduled.

- System Time Displays the current date, time and time zone settings Settings: of the device.
 - Manually: Enter the complete time and date settings manually. Click **Save Settings** to apply these settings. To synchronize the device clock with your computer, click the **Set time from my computer** button.
- **Time Zone:** Select your time zone from the drop-down menu. Click **Save Settings** after selecting your time zone
- **NTP Server:** Network Time Protocol (NTP) synchronizes the device with an Internet time server.

D-Link provides two time servers for your convenience. Select the one closest to your location.

Click Save Settings to accept these changes.

System Management	
Language	System Time Settings Current Time : 10:49:10 AM 01/14/2011
Time and Date	(GMT-08:00) Pacific Time (US & Canada);Tijuana
Device	Set The Date And Time Manually
System Settings	Date: 01/14/2011 Time: 10 💌: 49 💌: 3 💌
Power Management	Set Time From My Computer Save Settings
Notifications	
Logs	▼ Time Zone
Firmware Upgrade	Time Zone: (GMT-08:00) Pacific Time (US & Canada);Tijuana
	▼NTP Server
	NTP Server ntp1.dlink.com << Select NTP Server 💌
	Save Settings

Device

The device settings page allows you to assign a workgroup, name and description to the device. You can access this device by typing the host name in the URL section of your web browser. For example: http://dlink-d10001.

- Workgroup: Enter your Workgroup name here. The workgroup name should be the same as the computers on the network. Devices using the same workgroup will have additional file sharing methods available.
 - Name: Enter your device name here. This name is what the device will appear as on the network. By default, the device name is dlink-xxxxx, where xxxxx is the last six digits of the MAC address.
- Description: Assign a device description to the device.

Click **Save Settings** to accept these changes.

System Management		
Language	Device Settings	
Time and Date	Workgroup	workgroup
Device	Name	Movie-Backup
System Settings	Description	DNS-325
Power Management	Save Settings	Don't Save Settings
Notifications		
Logs		
Firmware Upgrade		
System Settings

Restart: Clicking to reboot the device.

Default: Click to restore the device back to the factory default settings. All previous settings that have been configured will be erased.

Shutdown: Click to turn off the device.

System Management	
Language Time and Date Device	Restart System Restart. Restart
System Settings	▼ Defaults
Power Management Notifications Logs	Restore To Factory Default Settings. Restore
Firmware Upgrade	▼ Shutdown
	System Shutdown. Shutdown Configuration Settings
	Save Configuration Settings. Save Load Configuration Settings. Browse Load VIdle Time
	Account Inactivity Timer 5 (Minutes) Save Settings
	System Temperature Threshold Fahrenheit 140 °F
	Save Settings

Section 4 - Configuration

- Configuration Click on the Save button to save the current Settings: configuration settings to a file on your computer. If at a later time you need to reload this configuration after a system reset, browse to the file and click Load.
 - Idle Time: Enter the time (in minutes) that the administrator and users will be allowed to remain idle while accessing the web UI.
- System Temperature Threshold: Here the user can configure the system temperature threshold value. This value can be set in Fahrenheit or Celsius. The device will automatically shutdown when it reaches the temperature set here.

System Management	
Language Time and Date Device	Restart System Restart. Restart
System Settings	▼Defaults
Power Management	Restore To Factory Default Settings.
Notifications	Restore
Logs	Shutdown
Firmware Upgrade	System Shutdown.
	Shutdown Configuration Settings
	Save Configuration Settings. Save Load Configuration Settings. Browse Load Idle Time
	Account Inactivity Timer 5 (Minutes)
	Save Settings
	▼System Temperature Threshold
	System Temperature Threshold Fahrenheit 💌 140 °F
	Save Settings

Power Management

The device Power Management feature allows you to configure the drives to shut down while power remains constant to the device. The drives will power up again when data is accessed.

HDD Hibernation: Click Enable or Disable.

- **Turn Off Hard Drive:** Set the amount of idle time before the drives go into hibernation.
 - **Power Recover:** Click **Enable** or **Disable**. The Power Recovery feature will automatically restart your device from a previously unexpected shutdown due to a power failure.

System Management						
Language Time and Date Device System Settings Power Management Notifications Logs Firmware Upgrade	HDD Hiberna Turn Off Har Save S Power Reco	tion d Drives A ettings covery Se very ettings	C Enable Disable			
	Type Auto (Low / High)					
	Save Settings Power Off Scheduling Settings Power Off O Enable O Disable					
	1	Power Off	Time			
	SUN		00 💌 : 00 💌			
	MON		00 💌 : 00 💌			
	TUE		00 💌 : 00 💌			
	WED		00 💌 : 00 💌			
	THU		00 💌 : 00 💌			
	FRI		00 🗸 : 00 🗸			
	SAT		00 💌 : 00 💌			
	Save S	iettings				

You can also control the speed of the fan using three different settings and you can power off the device at scheduled times for each day of the week.

Fan Control: The speed of the fan can be controlled from this section.

If you select **Auto** mode, the speed of the fan will change (Off/Low/High) depending on the internal temperature of the enclosure.

Power Off Click **Enable** to turn on this function.

Scheduling: Enable or disable the power off days using the check box and configure the time for each day that the power off will occur.

System Management				
Language Time and Date Device System Settings Power Management Notifications Logs	 Hard Drive Hibernation Settings HDD Hibernation Enable Disable Turn Off Hard Drives After 5 minutes Save Settings Power Recovery Settings Power Recovery 			
Firmware Upgrade	Save Settings			
	▼Fan Control Settings			
	Type Auto (Low / High)			
	Type Auto (Low / High) Save Settings			
	Power Off Scheduling Settings			
	Power Off Enable Disable			
	Power Off Time			
	SUN 00 💌 : 00 💌			
	MON 00 • : 00 •			
	TUE 00 💌 : 00 💌			
	WED 00 💌 : 00 💌			
	THU 00 💌 : 00 💌			
	FRI 00 💌 : 00 💌			
	SAT 00 💌 : 00 💌			
	Save Settings			

Notifications Email Settings

With E-Mail Alerts, you can configure e-mails to be sent to you that alert you to certain operational conditions and drive status conditions. These alerts can prove helpful with the management and safeguarding of important data.

- Login Method: Select either Account or Anonymous. Choosing Anonymous does not require a User Name or Password.
 - Username: Enter the appropriate user name for your e-mail account.
 - Password: Enter the appropriate password for your e-mail account.
 - **Port:** Enter the SMTP port number used here.
- SMTP Server: Enter the IP address or domain name of your outgoing mail server. If you are unsure of this value, contact your e-mail provider.
- Sender E-mail: Enter the "from" e-mail address (e.g. alerts@ share.com). This field does not require a valid e-mail address. However, if your e-mail client is filtering spam, make sure you allow this address to be received.
- **Receiver E-mail:** Enter the e-mail address you want to send the alerts to. This address must correspond with the SMTP server configured above.

SMTP Click this option to use SMTP authentication. **Authentication:**

Test E-Mail: Click the Test E-Mail button to send a test alert and confirm your settings are correct.

Language Time and Date Device System Settings Power Management	Login Method Account Anonymous User Name Password Port 25 SMTP Server Sender E-mail
Notifications Logs Firmware Upgrade	Receiver E-mail SMTP Authentication Test E-Mail Save Settings Don't Save Settings Clear Saved Settings
	SMS Settings Event Settings

SMS Settings

The same alerts of system conditions that can be sent to an email box can also be sent to a mobile phone or by SMS text messages. You need to have an agreement with a SMS service gateway that the device can then be configured to send the alerts to. The service provider then sends the received alerts to the configured mobiles as text messages.

Enable SMS Check this box to enable SMS alerts to be sent to **Notifications:** your mobile phone.

- SMS Service Provider: Select from the drop-down list your SMS service provider you would like to use (these are added with the **Add** button)
 - Add button: Click on the Add button and enter the information into the appropriate fields that your provider has given you to use for the configuration.
 - **Delete button:** Remove the selected Service Provider from the configuration.
 - **URL:** The specific service provider URL provided and added in the Add procedure.

Replace space If required by your service provider enter a **character with:** character that will be used for the space.

- Phone Number 1: Automatically populated from the **Add** button function.
- Phone Number 2: Enter a second mobile telephone number. Verify that the number input is according to the configuration instructions from your Mobile Service Provider.
- Test SMS button: Click this button to send a test message to your mobile phone to verify the settings are correct and the API URL is functioning with your provider.

Language	Email Settings	
Time and Date	▼SMS Settings	
	Enable SMS Notifications	
Device	SMS service provider	
System Settings		
Power Management	Replace space character with	
Notifications	Phone number 10	
Logs	Phone number2()	
Firmware Upgrade	Test SM5	
	Save Settings Don't Save Settings	
	Event Settings	
	Event Settings The Administrator Password Has Been Changed	
	Event Settings The Administrator Password Has Been Changed Space Status One Of The Volumes Is Full Volume/Disk Status Has Been Changed	
	Event Settings The Administrator Password Has Been Changed Space Status One Of The Volumes Is Full Volume/Disk Status Has Been Changed System Temperature Is Over User Defined Threshold	
	Event Settings The Administrator Password Has Been Changed Space Status One Of The Volumes Is Full Volume/Disk Status Has Been Changed System Temperature Is Over User Defined Threshold Firmware Has Been Upgraded	
	Event Settings The Administrator Password Has Been Changed Space Status One Of The Volumes Is Full Volume/Disk Status Has Been Changed System Temperature Is Over User Defined Threshold Firmware Has Been Upgraded Send Log File	
	Event Settings The Administrator Password Has Been Changed Space Status One Of The Volumes Is Full Volume/Disk Status Has Been Changed System Temperature Is Over User Defined Threshold Firmware Has Been Upgraded	

Adding an SMS Service Provider

Once you have a SMS Service provide you with a HTTP API URL, enter it into the Add SMS Service Provider wizard. Enter the URL in the first window with an appropriate Provider Name. In the next window select the appropriate HTTP API URL parameter types definitions from the drop-down menus next to the parsed fields of the URL.



Event Settings

You can limit which events are sent as alerts to the Email or SMS settings by checking the events here.

Event Settings: Select the information you want e-mailed to the above address or sent over SMS messages to the above mobile number. The items checked will be sent when necessary.

Language	Email Settings SMS Settings
Time and Date Device System Settings Power Management Notifications Logs	Enable SMS Notifications SMS service provider URL Replace space character with Phone number 10 Phone number 20
Firmware Upgrade	Test SMS (Note: Please press "Save Settings" to decide which SMS service provider to sent SMS.) Save Settings Don't Save Settings VEvent Settings
	The Administrator Password Has Been Changed Space Status One Of The Volumes Is Full Volume/Disk Status Has Been Changed System Temperature Is Over User Defined Threshold Firmware Has Been Upgraded Send Log File One Torrent Download Is Finished

Logs

Within the Logs menu item you can setup your device to receive Log Events from other ShareCenters or send the log events to another ShareCenter or SysLog server. You can also view the NAS system logs and the FTP logs here.

- Enable Syslog: Click to activate the Syslog server functionality of your device to be able to receive logs from other ShareCenters.
- **Syslog Server IP:** Enter the IP address of an external Syslog server that you wish to send the logs of this device to.
 - **Clear Log:** Click **Clear Log** to delete all the existing logs.
 - Backup Log: Click Backup Log to save the existing logs to a text file on your computer.

anguage Time and Date Device System Settings Power Management Jotifications	Server Settings Enable Sysk Syslog Serve Save Settings Logs Clear Log	er IP 10 .	79 . 62 . 13 ttings
₋ogs	Date	Time	Info
irmware Upgrade	Dec 15	19:04:40	FTP server: /Volume_1/HD/Paul Blart Mall Cop/Paul Blart Mall Cop.m2ts downloaded (429220
13	Dec 15	19:08:32	Set Fan Speed To "LOW".
	Dec 15	19:09:44	CIFS: Authentication for user [Guest] has FAILED.
	Dec 15	19:10:36	CIFS: Authentication for user [Guest] has FAILED.
	Dec 15	19:10:36	CIFS: [192.168.1.110] connected to [Volume_1] as user [nobody].
	Dec 15	19:10:43	CIFS: Authentication for user [Guest] has FAILED.
	Dec 15	19:12:36	Set Fan Speed To "STOP".
	Dec 15		
	Dec 15	19:21:44	Set Fan Speed To "LOW".
		19:21:44 19:22:45	Set Fan Speed To "LOW". FTP server: /Volume_1/HD/Predators [1080p]/Predators.mkv downloaded (9710828879 byte

Firmware Upgrade

The Firmware Upgrade Page makes it simple to check for new firmware releases and upload them to the device. This section provides a link to check for new firmware on the D-Link support website. If a new firmware is available, download the file to your local computer.

- Current Firmware Displays the current firmware version on your Version: ShareCenter[®] device.
 - Firmware Date: Displays the date of when the firmware was created.
- Firmware Upload: When upgrading the firmware, click Browse to select the new firmware file on your local computer and then click Apply to begin the firmware upgrade process.

System Management				
System Management Language Time and Date Device System Settings Power Management Notifications Logs Firmware Upgrade	▼Firmware Upgrade Current NAS Firmware Version Firmware Date Firmware Path	1.01 12/17/2010 Choose File No file chosen	(Select A Local F	ncei
-				

Status System Info

Here you can view various system information some of which is static and others dynamic.

LAN Displays the local network settings of your device. Information:

Device Displays the workgroup, name, description, current **Information:** temperature, packet counts, and system uptime.

Volume Displays the hard drive information, including the **Information:** disk mode, total size, used and remaining drive space.

System Status		
	LAN Information	
System Info		
	IP Address	10.78.62.13
lard Drive Info	Subnet Mask	255.0.0.0
	Gateway IP Address	10.78.62.1
	Mac Address	00:32:30:D1:01:18
	DNS1	172.16.10.100
	DNS2	172.16.10.99
	Device Information	
	Workgroup	workgroup
	Name	dlink-d10118
	Description	DNS-320
	System Temperature	109°F/43°C
	Current Rx/Tx	675342/146592
	System Up Time	0 day 2 hours 1 minute
	Volume Information	
	Volume Name	Volume_1
	Volume Type	standard
	Total Hard Drive Capacity	736295 MB
	Used Space	315 MB
	Unused Space	735980 MB
	Volume Name	Volume_2
	Volume Type	standard
	Total Hard Drive Capacity	982420 MB
	Used Space	387 MB
	Unused Space	982033 MB

Hard Drive Info

This section will display a summary of the hard drive(s) currently installed. The summary will include information such as the hard drive manufacturer, model, serial number, temperature, total capacity size, and status. The "Status" of the hard drive will display the health of the hard drive. If your hard drive is healthy, the status will display "Normal". If your hard drive is not healthy, the status will display "Abnormal". At any time, if you wish to view the S.M.A.R.T table of the hard drive, you can press the "Normal/Abnormal" button. After pressing the button a table appears with the S.M.A.R.T. data below the table of the Hard Drives installed.

)	Slot	Manufacturer	Model	Serial Number	т	emp	Size	Sta	tus
	R	WDC	WD7500AYYS-01RC	WD-WCAPT0475846	3	9°C / 102°F	750	GB	7
	L	MAXTOR	STM3750330AS	5QK0PS3G	3	9°C / 102°F	750	GB	2
									_
	Slot R	S.M.A.R.T Information							
	ID	Item			Now	Worst	Thresh	Raw Value	
	1	Raw_Read_Error_Rate			200	200	51	0	
	3	Spin_Up_Time			200	183	21	7000	
	4	Start_Stop_Count			98	98	0	2028	
	5	Reallocated_Sector_Ct			200	200	140	0	
	7	Seek_Error_Rate			200	200	51	0	
	9	Power_On_Hours			94	94	0	4662	
	10	Spin_Retry_Count			100	100	51	0	
	11	Calibration_Retry_Count	t		100	100	51	0	
	12	Power_Cycle_Count			99	99	0	1173	
	192	Power-Off_Retract_Cou	int.		199	199	0	1072	

Applications FTP/HTTP Downloads

Schedule file and folder backups from an FTP server, web server, or local network share. Always test the URL before applying changes. This will help to ensure a successful download.

- Category: Use the radio buttons to select the type of server that the source files/folders for the Schedule Downloads are located on. Click the **HTTP** radio button to specify that the source files are located on a web server. Click the FTP radio button to specify that the source files/ folders are located on an FTP server.
- Login Method: Enter the login information for the site that contains the files that you want to schedule for downloading. If no password is required, select **Anonymous**. If a password is required, select **Account** and provide the user name and password.
 - Username: Enter the user name here.
 - Password: Enter the password here.
 - Type: Select either File or Folder from the drop-down list depending on whether you wish to download a file or a folder. Select File if you wish to download a specific file. Select Folder if you wish to download all the files in a specific folder.
 - URL: Enter the FTP/ HTTP site address for the scheduled download. Click on **Test** to verify access to the site address and file/folder. If you have chosen **File** from the above drop-down list, you must specify the exact file in the URL path, including the file extension. (e.g. http://example.com/test/testfile.txt).

Schedule Downloads Settings



Schedule Downloads Settings



- Save To: Enter the specific destination on the internal drives for the downloaded files or folders to be saved to. Click **Browse** to browse the internal drives.
- **Rename:** If you would like to rename a file after it has been downloaded from the specified HTTP/FTP server, enter the name you would like the file to be renamed to in this field.
- Language: Use the drop-down menu to select the language used in the file or folder that you are trying to download.

When: Select the date and time for the download to occur.

- **Recurring:** If you wish to schedule a recurring backup, select the desired interval (daily, weekly, or monthly) and the time you want the backup to start.
- Incremental This type of backup, if used, will compare files of identical names on both the source and destination folders. If the source Backup: file was modified later than the destination file, the source file will overwrite the existing (old) destination file. If the source file is the same as the destination file, no action will be taken.

Schedule Pending and completed download events will

Download be listed here. The current status for each event List: is displayed here. In addition, there is an option

to delete a download event at anytime. Current download statistics, such as % completed and download speed, are displayed for each event. A refresh button is also provided to produce updated listings at any time.

Modify Delete					
Download Path	Save To	Progress	Status	Speed	Time
0 ▼ I Page 1 of 1 ► ►I 🔇 No items					

Remote Backups

Remote Backups allows you to back up your device to another ShareCenter or Linux Server or vice versa from a remote ShareCenter or Linux Server to your device. Click the **Create** button in the remote backups list to start a wizard where you can configure the Remote Backup functionality.

Enable remote backup Check this box to enable the remote backup service: server functionality to that a remote NAS or Linux.

Note: If you are not using the Remote Backup functionality leave this box unchecked so that your device performance will not be affected by the additional overhead used by this process.

- Password: Enter a password that the remote client will use.
- **Remote Backups list:** This is the list of remote backup jobs built by pressing the **Create** button above the list to configure each job.
 - **Create:** Click the **Create** button to build a new remote backup job.
 - Modify: Click to make changes to your existing Remote Backup jobs in the Remote Backup list. You must select the remote backup job first and then click the **Modify** button.
 - **Delete:** To remove a Remote Backup job select the job in the list and then click the **Delete** button.

Remote Backups	
	Remote Backup Server
Server	Enable remote backup service
Remote Backups	Password :
	Save Settings Don't Save Settings

Remote Ba	ackups						
Create	Modify	Delete					
Task	Schedule			Status	Enable / Disable	Backup Now	Recovery
10 🗸	I	No item	s				

Remote Backups - Create wizard

When you click the **Create** Button above the Remote Backup list this wizard will launch allowing you to configure a new Remote Backup job.

Wecome: Displays the steps of the wizard.



Service Type: NAS to NAS: Backup from the local NAS to a remote NAS or vice versa.

NAS to Linux: Backup from the local NAS to a Linux file system or vice versa.

Local to Remote: Sets the backup source as the local NAS and the target destination for the backup files as the remote NAS or Linux file system.

Remote To Local: Sets the backup source as the remote NAS or Linux file system and the target destination for the backup files as the local NAS.

Service Type	×
Service type :	
Backup direction : Cal to Remote Remote to Local	
Previous	Next Exit

- Local Settings: Task (Name): The name used to refer to the backup job which will be listed later in the Remote Backup list. Folder Path: Select a local network share folder or file as the target or source for the backup job.
 - RemoteRemote IP: The backup process uses Rsync protocolSettings:and needs to know the IP address of the destination
source or target device for the backup. Input the IP
of the remote NAS or Linux file system.

Enable Encryption: Checking this box will enable SSH encryption of the files that are transferred (backed up) over the network between the local and remote devices.

Ignore existing file(s): Checking this box prevents the backup process from writing over any files in the target file system that are not part of the backup files or folders. Therefore any existing files in the target system are preserved.

Incremental backup support Num (#): Checking this box provides multiple backup-capability at scheduled times. The first backup in an incremental series captures all the files for backup. Subsequent backups are incremental in that only the files and the folders that have changed in the backup source since the last incremental backup will need to be backed up. Each incremental backup builds a complete snapshot of the backup source however only the initial backup contains all the original files and folders. The subsequent backups in the incremental series contain new files and folders plus the links to the first incremental backup.





RemoteRemote Path: Using the drop-down menu, select theSettings:file system (folder) path to the remote target or source
system for backup.



Schedule Manual: Check either Yes or No selection below to Settings: start the backup (yes) immediately on completion of the wizard or (no) manually start the backup from the Remote Backup list.

Once - Select this option to run the Remote Backup once at a specific date and time set.

Scheduled: Select this option to set the backup to occur daily, weekly, or monthly per a specific schedule.

Schedule Settings
Schedule mode : O Manual O Once Schedule Month : O1 V Day : O1 V Hour : O0 V Minute : O0 V
Previous Next Exit

Section 4 - Configuration

Finished: Click on **Finish** if you are satisfied with all the settings of the Backup job created. Otherwise click on the **Previous** button to go back and make changes. Alternatively click on **Exit** to end the configuration without adding a Remote Backup job.

Remote Task: The name of the Remote Backup job.

Backups list: Schedule: When the Remote Backup job will execute.

Status: Current status which can be

- Ready the remote backup job is ready to be executed.
- Finished the remote backup job has executed completely and successfully.
- Failed the Remote backup job was unsuccessful during execution.

Enable/Disable: If the button shows a red circle the remote backup job is enabled. Click the red button to disable the remote backup job and the button will change to a green triangle. Clicking the green triangle will enable the job again.

Backup now: Click to execute the backup job immediately as long as the job is enabled.

Recovery: Click to write the backup files and folders back into the source file system from the backup target system (reverse the file direction).

Navigation buttons: Use these buttons to move up and down in the list when there are multiple jobs configured.

Refresh Button: Click this button during a backup or recovery process to monitor the progress by updating the progress completed bar.

Create	Modify Delete				
Task	Schedule	Status	Enable / Disable	Backup Now	Recovery
001	01/01 00:00	Ready		E	
•	III.				•
10 🔻 🖊 ┥	Page 1 of 1 P PI Q Displaying 1 to 1 of 1 items				

Finish

The setting is complete. Click Finish to save the current settings.

Task	001
Service type	NAS to NAS
Backup direction	Remote to Local
Remote IP	2.68.0.53
Encryption	Yes
Keep exist file(s)	Yes
Incremental backup	Num:3
Schedule	01 /01 00 :00
	Previous Finish Exit

Local Backups

Schedule local file and folder backups from the local network share of the device or from the local computer. Always test the URL before applying changes. This will help to ensure a successful download.

Category: Use the radio buttons to select the backup method. If your NAS device has two volumes you can click the Internal Backup radio button to backup the data from the first volume to the second volume and vice-versa. The Internal Backup feature also allows you to backup an existing folder on a volume to another folder on the same volume but nested folders in the same volume are not allowed.

If you want to backup the data from your PC or another NAS device to your NAS device, click the LAN Backup radio button.

Login Enter the login information for the site that contains Method: the files that you want to schedule downloads from. If no password is required, select **Anonymous**. If a password is required select **Account** and provide the user name and password. This option is only available for LAN Backups.

- **Username:** Enter the user name.
- Password: Enter the password.
 - **Type:** Select **File** or **Folder**, depending on what you want to download or backup.
 - URL: Enter the URL of the site or server you are initiating a transfer from. E.g. ftp://123.456.789/Test or ftp://123.456.789/test.txt
 - Save To: Enter a valid destination drive on the device, or click **Browse** to select the destination.

Rename: Enter the renamed file name here.

Local Backups					
Local Backups	Scheduled Backups Set	ttings			
Time Machine	Category				
	Login Method	O Account Anonymous			
	User Name	****			
	Password	0 0 0 0 0			
	Туре	File 💌			
	URL	Local Test			
	Save To	Browse			
	Rename				
	When	Date: 10/26/2010 Time: 08 💌 : 52 💌			
	Recurring Backup	None 💌 00 🗸 : 00 🗸			
		Incremental Backup			

- When: Enter the date and time you want the scheduled backup or download to initiate.
- **Recurring** Designate the interval and time you want the backup **Backup:** or download to run unattended.
- Incremental By default all local backups and file/folder downloads Backup: Backup: are in Overwrite mode, meaning that identical files in the destination folder will be overwritten by the source files. Checking Incremental Backup will have the device compare identical file names at the source and destination. Files will only be overwritten if the source file is more recent.

Local Backups - Time Machine

This section allows the user to configure the device so that it becomes a backup destination in the Mac OS X Time Machine. In order to use this function, the AFP service is required. The AFP service will start automatically as soon as this function is enabled.

Enable Time Machine: Click this to enable the Time Machine function to work with a MAC OS X Time Machine. The Time Machine Settings list will appear when this checkbox is ticked.

Time Machine Settings A list of destination folders on the Network

- list: Shares associated with the Time Machine backup.
- **New:** Click to add a NAS folder as a Time Machine destination.

Delete: Click to delete a NAS folder setup.

Remove all Network Deletes all of the NAS folders in the list. Shares:



New Delete	Remove All Hetwork Shares
Share Name	Path
10 💌 ┥ ┥ Page 1	1 of 1 F I O No items

P2P Downloads - Settings

Within this menu you can configure the P2P download management settings.

P2P: Select Enable or Disable.

Disable: In the block provided the user can configure the running schedule for P2P downloads. Simply select the Start and Stop block for the appropriate day and time.

Auto Download: Select Enable or Disable.

Port Settings: Click Enable to allow the device to automatically choose incoming connection port or click **Custom** and configure the incoming connection port manually.

Seeding: Select one of the three seeding options.

Torrent Save Path: Displays the volume where the Torrent will be saved.

Encryption: Select Enable or Disable.

Bandwidth Configure the maximum download rate and Control: maximum upload rate. Enter -1 to set the respective field to *unlimited*.



	\bigcirc Stop seeding when meet		%
Torrent Save Path			
Encryption	Enable	O Disable	
Bandwidth Control	Maximum Download Rate (Kb/S)	-1	Default:-1 (Unlimited)
	Maximum Upload Rate (Kb/S)	-1	Default:-1 (Unlimited)
Save Settings Do	on't Save Settings		

P2P Downloads - Downloads

Configure the Peer-to-Peer download manager settings.

- Add Torrent from URL: In the field provided you can copy and paste a link to a torrent file hosted on the Internet. The P2P download manager will add the torrent file to the download manager and download your files.
- Add Torrent from File: Browse for a torrent file you have downloaded onto your PC.
 - P2P Downloads list: This window will display all the running tasks.
 - **Remove Completed:** The user can click on the **Remove Completed** button to remove completed downloads.
 - **Detail:** Click **Detail** to view the files that are being downloaded for each torrent.
 - Top, Up, Down, Click Top, Up, Down and Bottom buttons allows Bottom: the user to move the selected P2P download in the task list. The downloads at the top of the list have a higher priority than the ones listed below them.
 - **Delete:** Click **Delete** to remove a selected download. This will remove not only the torrent file, but also the partially downloaded files too.
 - Start / Stop: The start and stop button allows the user to start and stop selected P2P downloads in the task list.
 - Torrent Scheduling: Click the Torrent Scheduling button to configure a scheduling rule for the select P2P downloading task.

P2P Downloads					
Add Torrents From URL					
Add Torrent					
Add Torrent From File					
Browse Add Torrent					
Remove Completed Detail Top Up Down Botton		Delete			
Name	Priority	Size	Progress	Status	DL/UL Speed
10 V I Page 1 of 1 V V No items					

- Navigation: At the bottom of the P2P Task window there are a couple of navigation controls. When multiple tasks exist, the user can select how many tasks will be displayed by using the drop-down menu. The user can also navigate to next pages when more than one page exist.
 - **Refresh:** Click **Refresh** to refresh the P2P task list to display the most updated statistics.

Web File Server

Whenever you cannot mount the network shares of your NAS, use the Web File Server to access the files using a browser over the Internet. If the network that your device is connected to is using NAT, you will need to forward HTTP port 80 across your router for access over the Internet.

- **Up:** Click the **Up** button to go up (or back) one directory in the folder structure of the network share selected.
- **Upload:** Select a destination folder in a network share by navigating in the folder view on the left. Click the **Upload** button to open a dialogue window where you can browse to select a file on your computer for uploading to the selected destination folder.
- **Download:** Select a file for download to your computer by navigating in the folder view on the left. Click on the file. Once the text turns red, click on the **Download** button and save or open the file as needed. You may select multiple files at the same time by holding the CTRL key and clicking on the files you want to download.
 - **Refresh:** Click the **Refresh** button to update the folder and file view of the Web File Server.
- Download: Downloads the selected file to your computer.
 - **Copy:** Click to copy the file to the clipboard. A wizard will launch and allow you to select the folder to paste the copy of the file to. Once you have selected the folder, click **OK** to paste the file in that folder.
 - Move: Moves the file to a new folder.
 - Delete: Removes the selected file.
 - **Rename:** Allows you to configure a new file name for the selected file.
- **Properties:** Displays the file properties such as ownership, access rights and modify time.



Name	Size	Туре	Modified Time
13 Blow Wind Blow.mp3	4.14 MB	MP3 Audio File	Sat Jan 1 00:23:04 2000
13 Testify (Live).mp3	5.36 MB	MP3 Audio File	Sat Jan 1 00:17:45 20
13 Yas! Yas! Yas!.mp3	d	MP3 Audio File	Sat Jan 1 00:29:20 2000
14 Mary Had A Little Lamb (Live).1		MP3 Audio File	Sat Jan 1 00:17:48 2000
14 My Daddy Rocks Me With One 🔞 Delete		MP3 Audio File	Sat Jan 1 00:29:23 2000
14 To Make Somebody Happy.mp 🖉 Rename		MP3 Audio File	Sat Jan 1 00:23:08 2000
15 Before You Accuse Me (Take A COOKINGO	:S	MP3 Audio File	Sat Jan 1 00:23:12 2000
15 Stavin' Chain.mp3	3.30 MB	MP3 Audio File	Sat Jan 100:29:25 2000

AjaXplorer

This section allows you to configure the AjaXplorer function. AjaXplorer is a file explorer that allows you to remotely manage the files stored under the AjaXplorer folder by using a web browser.

5 Search

Details

Launch	٦
Interface:	5

- This launches your browser with the Ajaxplorer file system interface to the ShareCenter[®].
- **Documentation:** Information regarding using the Ajaxplorer application can be found here:

http://www.ajaxplorer.info/

- Administrator: If you launched the interface as the admin user in your ShareCenter[®] then you will have administrator rights within the AjaXplorer interface. As the admin user you will have read write access to all areas of the files systems as well.
 - User: If you launched the interface as a configured user in your ShareCenter[®] then you will have the users rights within the AjaXplorer interface. That users read/write access privileges to the shares of the ShareCenter[®] will be applicable within the AjaXplorer interface as well.

.jaXplorer	· AjaAj	▼ AjaXplorer				
	to stream			terface which can download and e stored on the ShareCenter.		
é AjaXplorer - /				🔹 Page 🔹 Safety 👻 Tools 👻 🕢 💌		
Display Upload New Dir New Eile	Download Rename		bout Back			
Default Files 💌 🔟 /	U U		3 🏠	Logged as admin a		
Folders	Filename	Size	Туре	Modified		
Default Files Recycle Bin		-	Trashcan	2000/01/01 02:11		

My Favorites

The My Favorites tab allows you to add any icon you routinely access from the Applications or Management Tab in one convenient location for easy and quick access. You can add icons to the My Favorites tab using two different methods:

Re-arranging the My Favorites View

Within the My Favorites tab you can arrange the layout of the icon order according to your needs. To move the position of an icon, click and drag the icon to a new position anywhere in the current icon locations. Once you have dragged the icon to the new location, release the mouse button and the other icons will automatically reorder themselves.



Add an Icon to My Favorites

There are two methods to add an icon alias to My Favorites. You can either right-click the icon and select **Add to My Favorites** or use the Drag and Drop method as per item 2 below.



Remove an Icon from My Favorites

To remove an icon alias from the My Favorites tab simply right-click on it and select **Remove From My Favorite** in the context selection that appears.



Knowledge Base What is RAID?

RAID, short for Redundant Array of Independent Disks, is a combination of two or more disks with the aim of providing fault tolerance and improving performance. There are several different levels of RAID, with each one providing a different method of sharing or distributing data among the drives. The device supports JBOD, RAID 0, RAID 1, and Standalone.

RAID 0 RAID 0 provides data striping, which spreads out blocks of data over all drives, but does not provide data redundancy.

Although performance is improved, the lack of fault tolerance means that if one drive fails, all data in the array will be lost.

RAID 1 RAID 1 provides mirroring over multiple disks, with the same read/write speed of a single disk. A RAID 1 array can only be as large as it's smallest member disk.

Because the data is stored on multiple disks, RAID 1 provides fault tolerance and protection, in addition to performance advantages.





Mapping a Drive

You can use the D-Link Storage Utility to map drives to your computer. Insert the ShareCenter® CD into your CD-ROM drive.



The Storage Utility will load and detect any ShareCenter[®] devices that are on the local network.

If the device you are working with does not show up in the device list, click **Refresh**.

	D D-Link Storage Utility 😄 😣
	Network Storage Device
Highlight an available device.	Name IP Netmask dink-E15634 192.168.1.108 255.255.255.0 dink-FFAF3E 192.168.1.116 255.255.255.0
	LAN
	I P: 192 168 1 116 Receive DHCP: Enable Netmask: 255 255 255 0 Apply Gateway: 192 168 1 1
	Drive Mapping
Available volumes will be displayed under Drive Mapping. Highlight the — volume you want to map.	Volume Name Location Volume_1 Photos Connect Disc innect
	About txit
Select an available drive letter from the	
drop-down menu and click Connect .	

Once connected, your mapped drive(s) will appear in My Computer.



	Other		
	4:) 31/2 Floppy (A:)	31⁄2-Inch Floppy Disk	
	С		
	CD Drive (E:)	CD Drive	
	L		
	☞Local Disk (C:)	Local Disk	38.1 GB
	☞Local Disk (D:)	Local Disk	38.1 GB
	м		
	🐲 music on 'DNS-320 (writerblues)' (M:)	Network Drive	914 GB
	🛫 media_content on '10.78.62.101' (W:)	Disconnected Network Drive	
	v		
Double-click the mapped drive	😤 Volume_2 on 'DNS-320 (writerblues)' (Y:)	Network Drive	914 GB
to access the files and folders.	🛫 Volume_1 on 'DNS-320 (writerblues)' (Z:)	Disconnected Network Drive	

Mapping the Recycle Bin

If you have turned on the Recycle Bin option with any of your Network Shares created, then you can map the recycle bin as a Network Drive to have access to it.



USB Print Server

The device features a built-in USB print server, giving users the ability to share a printer on their local network. Connect a USB printer to the USB port on the back of the device. It is important to ensure that any of the printer manufacturer's drivers are already installed or available on any computer you want to print from.

Note: Only the print function is supported. The device does not support the copy and scan functions of Multi-Function Printers.

System Management		
System Info	LAN Information	
System Info	Device Information	
Hard Drive Info	Printer Information	
	Manufacturer	Xerox Corporation
	Product Page	Xerox Phaser 3121
		Clear print queue(s)

To add a printer, connect your printer via USB cable to the USB port of your device:

The printer should appear in your in the System Info menu of the Status icon.



Install Fro	om Disk	×	Once you have selected the proper driver as shown in the browse list then click OK to install
I	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel	the printer.
	Copy manufacturer's files from: E:\Phaser 3121\GDI_DRV\AddPrint\WinXP	Browse	

		素 φ on 10.78.62.13					- 🗆 ×
The printer is now installed and		Printer Document View Help					
the printer queue will appear.	→	Document Name	Status	Owner	Pages	Size	Submitted
		<					>
		0 document(s) in queue					:

Yahoo! Widget Installation

D-Link provides an added feature called a Yahoo! Widget.

What is a Yahoo Widget?

Yahoo! Widgets are free application platforms that can be used in Microsoft Windows and Mac OS X. The engine uses a JavaScript runtime environment combined with an XML interpreter to run small applications referred to as widgets, and hence is part of a class of software applications called widget engines.

Step 1: Install the Yahoo! Widget. Once the Yahoo! Widget is installed a D-Link icon will appear in your Widget Dock. Once you hover with your mouse over the D-Link Widget you'll be able to click the configuration button.



Step 2: Click the configuration button to configure the Widget. Enter the IP Address of your device and click the **Save** button. Now you are ready to use your new D-Link Yahoo! Widget!



Yahoo! Widget Display

The D-Link Widget is mainly used for monitoring the activities taking place.

- System: In the System window information about your Computer, DNS-320, IP Address, Firmware Version and Current Operational Temperature are displayed.
- Hard Drive: In the Hard Drive window information about the storage space of your device is displayed.
 - Server: In the Server window information about the USB Device, UPnP Server, ITunes and FTP Server configured is displayed.
- **Download:** When the P2P Application is loaded, you can monitor your P2P download status here.









USB Copy Function

The DNS-320 supports on option where the user can enter a USB storage medium in to the USB port and with a click of a button automatically copy the contents of the USB storage medium into a folder on the device

- Step 1: Insert a USB storage device into the USB port, located on the front panel of the device. The USB Light on the front panel will start to flicker. Once the light is on solid, then the USB storage is ready for use.
- Step 2: To copy the contents of the USB storage to a folder on the device, press and hold the USB Copy/Unmount Button button for 1-3 seconds. The device will create a new folder in the Volume 1 folder and will copy all the files from the USB storage to this folder.
- Step 3: To unmount the USB storage device after the copy is complete, press and hold the USB Copy/Unmount Button button for 5 seconds. When the USB light has switched off, then the USB storage un-mounted successfully and is ready to be removed.

To check whether the USB storage device is connected successfully, the user can navigate to the **System Info** menu of the **System Status** icon in the Management Tab of the Web GUI of the device and view the **USB Information** section.

Note: It is a very good practice to un-mount an USB storage device before removing it from a USB port.



USB Info	
	Manufacturer : SanDisk Corporation
	Product : U3 Cruzer Micro
	Size : USBDisk1_1,987.96 MB
	Unmount



Contacting Technical Support

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

Before you contact technical support, please have the following ready:

- Model number of the product (e.g. DNS-320)
- Hardware Revision (located on the label on the bottom of the switch (e.g. rev A1))
- Serial Number (s/n number located on the label on the bottom of the device).

You can find software updates and user documentation on the D-Link website as well as frequently asked questions and answers to technical issues.

For customers within the United States:

Phone Support: (877) 453-5465

Internet Support: http://support.dlink.com For customers within Canada:

Phone Support: (800) 361-5265

Internet Support: http://support.dlink.ca

Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor.
- Only for 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, or addresses with an APO or FPO.

Limited Warranty:

D-Link warrants that the hardware portion of the D-Link product described below ("Hardware") will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below ("Warranty Period"), except as otherwise stated herein.

- Hardware (excluding power supplies): Three (3) years
- Free Technical Support Basic Installation: Ninety (90) days

The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any 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, at its option, 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 or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual 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 ("Software 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 Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, 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 the portion of the actual purchase price paid that is attributable to the Software. 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. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. 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 (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 portions 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, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-453-5465, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA") number by completing the RMA form and entering the assigned Case ID Number at https://rma.dlink.com/.

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. 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. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. 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:

The Limited Warranty provided herein by D-Link does not cover:

Products that, 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; and 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.

While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited 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 THE DURATION OF THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. 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 NONCONFORMING 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 you may also have other rights which vary from state to state.

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CE Mark Warning:

This is a Class A 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 A 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.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

Registration

Register your product at http://registration.dlink.com



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

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