USER MANUAL ShareCenter™ Pulse DNS-320

VERSION 1.1







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Product Overview Package Contents

- D-Link ShareCenter Pulse 2-Bay Network Storage
- CD-ROM with Manual and Software
- Quick Installation Guide
- Power Adapter
- CAT5 Ethernet Cable



Note: Using a power supply with a different voltage than the one included with the ShareCenter Pulse 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 system requirements are recommended:

- Computer with: 1GHz processor / 512 MB RAM / 200 MB available space / CD-ROM drive
- Internet Explorer version 7.0 or Mozilla Firefox 3.0 and above
- 3.5" SATA Hard Drive(s)
- Windows[®] XP (with Service Pack 2), Vista[™] or Windows 7.

Introduction

The D-Link ShareCenter Pulse, 2-Bay Network Storage shares your documents, photos, music, and videos across the Internet so family members, friends, or employees can access them. This enclosure, which can hold two 3.5" SATA hard drives of any capacity, creates a central point for backing up valuable files. The built-in RAID 1 mirroring technology protects these files from drive failure. Other options such as Standard, JBOD, and RAID 0 are also available.

The ShareCenter Pulse shares files over the Internet via the built-in FTP server or the built-in AjaXplorer web file server. Users and groups can be created and assigned to folders with either read or read/write permissions. Quotas can be set per user or group to restrict space usage. In addition, the ShareCenter Pulse can be used to stream photos, music, and videos to UPnP AV compatible network media players.

The included CD contains D-Link's Easy Search Utility. This utility allows you to locate the ShareCenter Pulse on the network and map drives to your computer. Backup software included on the CD allows you to backup your files from a computer to the ShareCenter Pulse manually, by a schedule, or in real-time. Real-time backups are a great way to safeguard against unfortunate accidents that may result in the loss of important files.

Combining ease of use with practical and high performance features, the ShareCenter Pulse is an organized solution for any network. Free up drive space on computers and centralize data on your network with the ShareCenter Pulse 2-Bay Network Storage!

Features

The ShareCenter Pulse is designed for easy installation and allows remote access to important data via LAN or WAN:

- Two Hard Drive Bays for 3.5" SATA Hard Drives up to 4TB
- Simplified Hard Drive Installation Process
- Four Hard Drive Configurations: Standard, JBOD (Linear), RAID 0, and RAID 1
- High Performance Gigabit Ethernet Connectivity
- Scheduled Downloads from Web or FTP Sites
- Full or Incremental Backups
- Built-in FTP Server supports FTP over SSL/TLS and FXP
- Real Time Backups With the Included Backup Software
- Users and Groups Can Be Assigned to Folders with Read or Read/Write Permissions
- Quotas For Users and Groups
- Automatic E-Mail Notifications
- Power Management for Conserving Energy and Extending Hard Drive Life
- UPnP AV Server for Streaming Music, Photos, and Video to Compatible Media Players

- iTunes® Software will be able to automatically find and play music directly from the ShareCenter Pulse
- D-Link Easy Search Utility
- Configurable by Web Browser
- Supports HTTPS management function
- Supports Configuration file save/load
- Supports DDNS
- Supports multi-language packages
- Supports UPnP
- Supports PnP-X / LLTD
- Supports Uni-code for both Samba and FTP Server
- Supports P2P Download
- Supports Yahoo! Widget
- Supports NFS/AFP Server.
- Supports Auto Power Recovery

- Supports System Logging/FTP Logging ۲
- Supports Remote File Access via Built-in AjaXplorer or via FTP Server •
- Supports Apple Time Machine •
- USB port support External Storage Device, Printer Server, UPS Monitoring •
- Supports USB Copy Function ۲
- Supports RAID Migration: Standard to RAID1 Supports Local Backup •
- •

Hardware Overview Front View



HDD1/HDD2 Light:	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 Light:	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.
Power Light:	This light will illuminate when this ShareCenter Pulse is powered on.
Power Button:	Press this button once to power on the ShareCenter Pulse. Press and hold the button until it begins to blink to power down the ShareCenter Pulse.
USB Copy Button:	Press this button to copy data from USB drive to ShareCenter Pulse. Press and hold 5 seconds to un-mount USB drive.
Front Latch:	This latch can open and close by simply pressing it.





Cover Lock:	This lock is used to remove the cover when unlocked. Locking it will restrict the removal of the top cover.
Cable Hook:	This hook can be used to neatly store the cables connected to the ShareCenter Pulse.
Power Receptacle:	The supplied power adapter connects here.
Reset Button:	A pinhole button located beside the Ethernet socket is used to reset the system or restore the factory default settings.
	Note: After resetting the unit you will still be able to access the data on your hard drives.
Rear Fan:	This is the rear fan used for ventilation.
LAN Port:	A Gigabit Ethernet port that connects the ShareCenter Pulse to a network.
Security Lock:	This lock can be used to tie the ShareCenter Pulse to the desk to prevent theft. Cables are sold separately.

Basic Installation Hardware Setup

This section provides installation information for the ShareCenter Pulse. To install the ShareCenter Pulse on your local network, refer to the steps below:



1. To remove the top cover you have move the cover lock to the right.



2. While holding the cover lock, slide the top cover backwards. After sliding the top cover backwards, lift the top cover up to remove it.



3. Insert a 3.5" SATA hard drive into an available drive bay.



4. Re-attach the top cover.





5. Connect an Ethernet cable to the available Ethernet port. This cable should connect the ShareCenter Pulse to your local network via a router or switch, or directly to a computer for configuration.

6. Connect the power adapter to the power receptacle.

Make sure to align the drive connector to the SATA connector on the bottom edge inside the drive bay of the ShareCenter Pulse. Gently push the drive in until it connects. When a drive is inserted properly, you will feel it "seat" into the connector. Some hard drives that are thin or oddly shaped may need to be guided carefully into position. If a drive is not properly seated, the light will not illuminate after powering on the device.

Software Setup Easy Search Utility

When first powered on, during the initial boot sequence, the ShareCenter Pulse will wait to be assigned an IP address via DHCP. It is recommended that you use the included D-Link Easy Search Utility when accessing and configuring the ShareCenter Pulse for the first time. If you want to change the IP address before logging in, or if you are unable to connect to the ShareCenter Pulse IP address, you can use the Easy Search Utility provided on the product CD to locate the device on your network and make any needed changes.

Network Storage Device:	The Easy Search Utility displays the available ShareCenter Pulse devices on the network.
Refresh:	Refreshes the device list.
Configuration:	Click Configuration to access the Web-based configuration utility of the ShareCenter Pulse.
LAN:	Configure the LAN Settings for the ShareCenter Pulse here.
Apply:	Click Apply to save changes to the LAN Settings.
Drive Mapping:	Volumes available for mapping are displayed here.
Available Drive Letters:	Choose an available drive letter. Click Connect to map the selected volume. Click Disconnect to disconnect the selected mapped volume.
Exit:	Click Exit to close the utility.



Getting Started

To run the Easy Search Utility, insert the ShareCenter Pulse CD into your CD-ROM drive:

Step 1: Click Easy Search Utility.



Step 2: Highlight an available ShareCenter Pulse and click Configuration to access the web-based utility.



Step 3: The Login screen will appear: Type 'admin' for the username and leave the password field blank.

Click on the '**Configuration**' button.

Step 4: When logging in to this unit for the first time, the user will be prompted to format the HDD in the device. In this window, information about the HDDs inserted will be displayed. Click '**Next**' to continue to the next step.

Please note that the data stored on the drives will be erased during this process.

D-Link				
			DNS-320	-
User Name:	I			
Password:				
	Configuration	dications		
	CTOPO(

HARD DRIVE CONFIGURATION					
This se inserte proces	ction allow d hard driv s.	vs you to change the ha ve. Notice that the data	rd drive configuration o stored in formatted dri	r to format ves will be	: the newly erased during the
Slot	Vendor	Model	Serial Number	Size	
R	WDC	WD10EVVS-63M5B0	WD-WCAV52163551	1000 GB	
L	WDC	WD5000AAKS-22YGA	WD-WCAS85512740	500 GB	
					Next Skip
					/

Step 5: The four options are: Standard, JBOD, RAID 0 and RAID 1.

JBOD - Combines both hard drives in a linear fashion which will create one large volume geared towards maximum available space.

RAID 0 - Combines both hard drives in a striped fashion which will create one large volume geared towards maximum performance.

RAID 1 - Mirrors the hard drives for redundancy. If one hard drive fails, the other still contains all of the data. Replace the failed hard drive and it will re-mirror, restoring data protection.

Standard - Creates two separate volumes (or one volume if only one hard drive is present). Each hard drive is its own volume.

When prompted to configure the Hard Drive Settings: Select the type of hard drive configuration. In this configuration we'll use RAID 1 as the example configuration.

Step 6: Auto-rebuild is a feature that allows the ShareCenter Pulse to initiate the rebuilding phase automatically. The rebuilding phase will occur when one or more hard drives fail and is replaced by a new one.

WARNING - This feature will automatically format the newly added drive. If this feature is NOT required, click disable.

Click '**Next**' to continue.





Step 7: In this section the user can view the available capacity that RAID 1 can use on the hard drives installed.

Then the user can configure the desired capacity to be used for the RAID 1 configuration by entering the desired capacity amount in the block provided.

To utilize the remaining space, (if the two HDDs differ in capacity), the user can choose to use JBOD for the remaining space. Tick this option is needed.

Click '**Next**' to continue.

Step 8:	In this section a summary of the configuration will be
	displayed.

When ready click on the '**Format**' button to initiate the RAID configuration. This process will involve initializing, formatting and configuration of the RAID chosen.

HARD DRIVE CONFIGURATION	
This section allows you to change the hard drive configuration or to f inserted hard drive. Notice that the data stored in formatted drives w process. Available capacity of Raid 1 volume: 497 GB	ormat the newly ill be erased during the
Enter the desired capacity of Raid 1 volume : 497 GB The remaining space will become a JBOD (Linear) volume. Remaining space : 503 GB	
Leaving the remaining disk space for future.	
0 GB	497 GB
	Back Next Skip



	A warning message will be displayed before the procedure starts stating that hard drives will be formatted and if the user wishes to continue. Click ' OK ' to continue.	MESSAGE Message <td< th=""></td<>
	This RAID configuration starts with Initializing.	Initializing
	Then continues to format and configure the RAID configuration.	33% Volume_1 formatting 60%
Step 9:	Lastly a configuration summary will be displayed. Click in the ' Finish ' button to complete the setup procedure. This will redirect the user to the Login screen again.	HARD DRIVE CONFIGURATION X 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. Volume Name File System Volume_1 EXT3 RAID 1
		Restart Finish

Web User Interface Setup Section

- **Wizard:** On the Wizard page the user can configure some basic settings for this device. The Storage Enclosure, provides a convenient and safe location on the network for storing data and media.
- **LAN Setup:** On the LAN Setup page the user can configure the Link Speed and to the IP address as a DHCP client or Static IP.
- **Time and Date:** On the Time and Date page the user can configure several different options concerning the device's internal clock. It is important that an accurate time is set so that scheduled backups and downloads will be accurate.



- **Device:** On the Device page the user can configure the workgroup, name, and description for this device.
- Language: On the Language page the user can upload a language pack file that allows the user to view the web interface for this device in any of the languages available.

Wizard Page

The storage device has a setup Wizard that allows you to quickly configure some of the basic device settings.

Click on the 'Run Wizard' button to start the setup wizard quick configuration.

Step 1: In this window the user will be informed about the steps that will follow in this configuration.

These steps are:

- 1) Configuring the login password for this device.
- 2) Configuring the time zone used by this device.
- 3) Configuring the LAN Connection settings.
- 4) Configuring E-mail settings.
- 5) Displaying a summary.

Click the 'Next' button to continue to the next step. Click the 'Exit' button to return to the main page.

Set Password	×
You may change the admin account password continue.	d by entering in a new password. Click Next to
Password	
Comm Password	A 🏠
	*
	se s
	Back Next Exit



Step 2: In this window the user must enter a new login password used by this device. Enter and confirm the password in the given spaces.

Click the 'Next' button to continue to the next step. Click the 'Back' button to return to the previous window. Click the 'Exit' button to return to the main page. **Step 3:** In this window the user must choose the Time Zone that will be used for this device from the drop-down menu.

Click the 'Next' button to accept the changes and continue to the next step.

Click the 'Back' button to discard the changes and return to the previous window.

Click the 'Skip' button to forward to the next step Click the 'Exit' button to return to the main page.

DHCP Client		
Static IP		
IP Address	192.168.69.32	
IP Address	255.255.255.0	
Gateway IP Address	192.168.69.1	
DNS1	192.168.69.1	
DNS2		
		A 🚔



Step 4: In this window the user can configure the LAN connection settings used by this device. Selecting DHCP Client will cause the ShareCenter Pulse to obtain an IP address from the local DHCP server, such as your router. Selecting Static IP requires you to assign the IP information for the ShareCenter Pulse manually.

Click the 'Next' button to accept the changes and continue to the next step.

Click the 'Back' button to discard the changes and return to the previous window.

Click the 'Skip' button to forward to the next step Click the 'Exit' button to return to the main page. **Step 5:** In this window the user can configure the Workgroup settings used on this device.

Click the 'Next' button to accept the changes and continue to the next step.

Click the 'Back' button to discard the changes and return to the previous window.

Click the 'Skip' button to forward to the next step

Click the 'Exit' button to return to the main page.

		*
Enter your Name fo continue.	the if necessary. Otherwise you may accept the	he default values and click Next to
Login Method User Name	Account Anonymous	
Password		
Port	25	
SMTP Server		
Sender E-mail		
Receiver E-mail		
SMTP Authentio	ation	
Test E-Mail		
		<u>ح</u> ک
		Back Next Skip Exit



Step 6: In this window the user can configure the e-mail account settings used by this device.

Click the 'Next' button to accept the changes and continue to the next step.

Click the 'Back' button to discard the changes and return to the previous window.

Click the 'Skip' button to forward to the next step Click the 'Exit' button to return to the main page. **Step 7:** In this window the user will be informed that the setup wizard is complete and to finish the setup must click on the 'Completed' button.

Click the 'Completed' button to accept the changes and continue with the restart.

Click the 'Back' button to discard the changes and return to the previous window.

Click the 'Exit' button to return to the main page.



LAN Setup Page

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

LAN SETTINGS :

Here you can configure the LAN Settings for your NAS device.

Save Settings Don't Save Settings	ettings	gs Don't Save Settings
-----------------------------------	---------	------------------------

- **DHCP Client:** By selecting 'DHCP Client', the ShareCenter Pulse will act as a DHCP client and obtain its LAN IP settings from the DHCP (Dynamic Host Configuration Protocol) server on the local network. By default, the ShareCenter Pulse is set to obtain an IP address from a DHCP server on your network.
 - **Static IP:** If necessary, you can assign a static IP address to the ShareCenter Pulse.

LAN SETTINGS :		
DHCP Client		
🔘 Static IP		
IP Address	192, 168, 69, 32	
Subnet Mask	255.255.255.0	
Gateway IP Address	192, 168, 69, 1	
DNS1	192, 168, 69, 1	
DNS2		

- **IP Address:** The IP address of each device on the local area network must be within the same IP address range and subnet mask. For a small subnet with less than 253 IP addresses assigned (e.g. Class C private IP), each device on the LAN (Local Area Network) needs have a unique IP Address in the format of (example) 192.168.0.x to connect to other devices within the same network.
- **Subnet Mask:** Specify the subnet mask for the ShareCenter Pulse. The Subnet mask must be the same for all devices on the same subnet of the network. The default subnet setting is 255.255.255.0. For a small subnet with less than 253 IP addresses assigned (e.g. Class C private IP), keep this default setting.
- **Gateway IP Address:** Specify the Gateway IP Address for the ShareCenter Pulse. The Gateway IP 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: Specify the first and second DNS Addresses for the ShareCenter Pulse. A DNS Address will allow the ShareCenter Pulse to resolve names into IP addresses. Example: Without a DNS address, the ShareCenter Pulse would not be able to contact an FTP site such as ftp.dlink.com (name). Instead, you would need to use 64.7.210.131 (IP address). It is recommended that you enter DNS addresses when setting a Static IP Address. Often you can use the LAN IP address of your router as a DNS address. Click 'Save Settings' when finished.

LLTD: The ShareCenter Pulse 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 on your ShareCenter Pulse.

LLTD SETTINGS :

LLTD 🔘 Enable 🥥 Disable

Time and Date Page

The Time configuration option allows you to configure, update, and maintain the correct time on the internal system clock. In this section you can set the time zone that you are in, and set the NTP (Network Time Protocol) Server in order to periodically update your system time from the NTP Server. You can also use your computer's time as the system time.

- **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 server for your convenience.
Choose the one closest to your location.

Click 'Save Settings' to accept these changes.

system clock. In this sec Protocol) Server in order computer's time as the s	ption allows you to configure tion you can set the time zor r to periodically update your system time	e, update, and maintain the corrent that you are in, and set the NT system time from the NTP Server	ect time on the interna P (Network Time . You can also use you
Current Time: 03:	42:50 PM 07/23/2010		
Current Time Zone	:GMT Casablanca, Monro	via	
SET THE DATE AND	TIME MANUALLY :		
Date: 07/23/2010	Time: 15 ▼: 42	▼: 46 ▼	
		Set time from my computer	Save Settings
TIMEZONE ·			
TITLEVIL I			
Time Zone: GMT Casal	olanca, Monrovia	37	
			Save Settings
NTP SERVER :			
NTP SERVER :			
NTP SERVER :	ntp1.dlink.com	<< ntp1.dlink.com	

Device Page

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 ShareCenter Pulse will appear as on the network. By default, the device name is dlink-xxxxx, where xxxxxx is the last six digits of the MAC address.
- **Description:** Assign a device description to the device.

Click 'Save Settings' to accept these changes.

DEVICE SETT	INGS:
Enter a workg to show up as	roup, device name and device description below. These settings allow the device a unique name on your network, for example MyNAS or DNS-320.
Save Setting	s Don't Save Settings
7.	
DEVICE SETT	INGS:
Workgroup	workgroup
Name	dlink-d10001
Description	DNS-320
Description	010-320

Language Page

This page allows you to install language packages onto your system to suit your local language needs.

Language Pack: 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.

Summary: In the summary section 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.



Please Note:

Keep a keen lookout on D-Link's local website for new Language Packs.

LANGUAGE SETTINGS :

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

Browse Apply

No.	Modul	e Name		V	ersion		Sta	tus	Start/Stop	Del

Advanced Section

- **User / Groups:** The section allows you to create and manage user accounts and groups. Here you can set user and group privileges for specific shared folders. Up to 64 users and 10 groups can be created.
- **Network Shares:** The Network Shares page allows the user to configure shared folders and rights to specific users and groups.
 - **Quotas:** This section allows you to assign a quota to a group or user to limit the amount of storage they are allocated. By default, users and groups do not have a quota.
 - **FTP Server:** This section allows you to configure the settings of the built-in FTP server.
- **UPnP AV Server:** This section allows you to configure the UPnP AV server. You can enable or disable the UPnP AV service, and specify the folder or directory that will be shared.
 - **iTunes Server:** This section allows you to configure the iTunes server. You can enable or disable the iTunes service, set the password for the service, and specify the folder or directory that will be shared.



- **Time Machine:** This section allows the user to configure the ShareCenter Pulse 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.
 - **AFP Service:** Here the user can enable the AFP Service option. If the Time Machine option is used, this option should be enabled automatically.
 - **NFS Service:** Here the user can enable the NFS Service option.

User / Groups Page

The Users / Groups menu is used to create and manage user and group accounts. Up to 64 users and 10 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: Group Settings:

Users and Groups can be created here. Users' accounts can be added to rules in the Network Shares and FTP Server sections. Each user created will also have access to the Scheduled Download section. Once a group has been created, it will be available in the Group selection on the Users page. The created groups will appear in a list near the bottom of this page. Users within these groups will also be displayed.

🗟 Add 🛛 🖉 Modify 🖉 Delete	
Group Name	User Name
jroup1	user1

USERS / GROUPS SETTINGS :

This section allows you to create unique users and groups for accessing your NAS device. You can create usernames for invididual access as well as combine users into a group to limit storage quotas.

USER SETTINGS

Jser Name	Group Name
user 1	

To add a user or a group click on the 'Add' button. To modify an existing user or group click on the 'Modify' button. To remove a user or a group click on the 'Delete' button.

To select a user or a group, simply click on the user or group and the entry should change to a red color that indicates it's selected for use.

At the button the user can navigate through pages and also refresh the window by click on the 'Refresh' button.

Adding New Users

The following section will describe how to add a new user on this device. To add a user 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 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 the user to 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.

Welcome To The User Setup Wizard.	×
Welcome to the account setup wizard. The wizard will guide you through the steps of setup. Begin by clicking on Next .	
1.Create A New Account	
2.Join To Group	
3.Network Shares Settings	
4.Quota Settings	
5.Finish	
No. Cat	
Next Exit	

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

Click on the 'Back' 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: Here the user can choose to configure this user account to belong to a group or not. Select the appropriate Group Name by ticking the check box.

Click on the 'Back' button to return to the previous window. Click on the 'Next' button to accept the change and continue to the next window.

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

Click on the 'Back' 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: Network Shares Setting	gs			
Share Name	Read Only	🔲 Read Write	Deny Access	
Volume_1				
Volume_2				
10 👻 🚺 🖣 Page 1	of 1 🕨 🕨	🤣 Displaying	1 to 2 of 2 items	
		В	ack Next Ex	cit

Step 4: Assign Privileges - Applicati	ons	×
Allow the user to access following applic	ations:	
CIFS		
	Back Next Exi	t

Step 4: Here the user can configure the application privileges assigned to this user. Option to select are CIFS or FTP. CIFS is short for Common Internet File System and FTP is short for File Transfer Protocol.

Click on the 'Back' button to return to the previous window. Click on the 'Next' button to accept the change and continue to the next window.

Step 5: Here the user can configure the Quotas settings for the user account. Enter the quota amount in the block indicated in Megabytes. By entering OMb the quota will be set to unlimited.

Click on the 'Back' 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 6: Here the user can confirm to create the new account.

Click on the 'Back' button to return to the previous window. Click on the 'Completed' 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.

Adding New Groups

The following section will describe how to add a new group on this device. To add a group 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 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) Join the 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.

Welcome To The Group Setup Wizard.

Welcome to the group setup wizard. The wizard will guide you through the steps of setup. Begin by clicking on **Next**. 1.Create A New Group

2.Join User To Group

3.Network Shares Settings

4.Quota Settings

5.Finish

Next Exit

Step 1: Here the user can enter the Group Name for the new group being created.

Click on the 'Back' 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.

User Name		
user1		
	111	

Step 1: Create A	New Group		*
Group Name			
		Back Next	Exit

Step 2: Here the user can choose to configure a user account to belong to this group or not. Select the appropriate user by ticking the check box next to it.

Click on the 'Back' button to return to the previous window. Click on the 'Next' button to accept the change and continue to the next window.

Step 3: Here the user can configure the appropriate Network Access settings for this group by simply options. Read Only, Read Write o

sottings for this group by simply ticking one of the following	Step 3: Network Shares Settings			
options. Read Only. Read Write or Deny Access.	Share Name	Read Only	🔲 Read Write	Deny Access
	Volume_1			
Click on the 'Back' button to return to the previous window.	Volume_2			
to the next window. Click on the 'Exit' button to discard the changes made and return to the User/Group window.			Pienbying	1 to 2 of 2 itoms
			Cispiaying	
Step 4: Assign Privileges - Applications × Allow the user to access following applications: ×			В	ack Next Exit
 ✓ CIFS ✓ FTP 	Step 4: Here the user ca assigned to this CIFS is short for short for File Tra Click on the 'Bac Click on the 'Ney to the next windo Click on the 'Exi return to the Use	n configure tl group. Optio Common In nsfer Protoco ck' button to r ct' button to a ow. c' button to di r/Group wind	ne applicatio n to select ar ternet File Sy ol. eturn to the p ccept the cha scard the cha dow.	n privileges 'e CIFS or FTP. 'stem and FTP is previous window. ange and continue anges made and
Back Next Exit				

Step 5: Here the user can configure the Quotas settings for this group. Enter the quota amount in the block indicated in Megabytes. By entering OMb the quota will be set to unlimited.

Click on the 'Back' 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: Quota Settings			×
This section allows you to a storage they are allocated.	ssign a quota to grou	up to limit the amount of	
Volume_1 Quota Amount	0	мв	
Volume_2 Quota Amount	0	МВ	
(The value for unlimited blo	cks/inodes is zero)		
		Back Next Exi	t //

Step 6: Here the user can confirm to create the new group.

Click on the 'Back' button to return to the previous window. Click on the 'Completed' 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.
Network Shares Page

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.

Network Shares: The Network Shares Settings window allows the user to add, modify and remove new and existing network share rules.

To add a rule click on the 'Add' 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 a red color that indicates it's selected for use.

At the button the user can navigate through pages and also refresh the window by click on the 'Refresh' button.

Lastly, if at any point the user want to reset the network access list to the default configuration, click on the 'Reset Network Access List' button.

NETWORK SHARES SETTINGS :

The Network Shares page allows the user to configure shared folders and rights to specific users and groups.

NETWORK SHARES	SETTINGS:						
🙈 Add 🛛 🔊 Modif	ý 🖧 Delete	Reset Ne	twork Share	25			
Share Name	Path				CIFS	FTP	NFS
Volume_1	Volume_1				E	EQ	-
Volume_2	Volume_2				E	5	-
•			III	1			1
10 🗸 🚺 4	Page 1	of 1 🕨 🕨	N 🕏	Displaying 1 to 2	of 2 ite	ms	

Adding New Network Shares

The following section will describe how to add a new network share on this device. 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. This wizard will guide the user through the steps of setup.

In this wizard the user will be able to:
 Select share folders.
 Configure shared folder access rights.
 Configure network access settings.
 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: Here the user can select the appropriate folder to include in this network share by ticking the respective folder.

Click on the 'Back' button to return to the previous window.

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

Welcome To Network Share Setup Wizard			X
The Wizard will guide you through the steps of steps. Be Next.	gin by	clicking	on
1.Select Share Folder			
2.Shared Folder Access Rights.			
3.Network Shares Settings.			
4.Finish.			
	Ne	ext E	ixit
Step 1: Select Share Folder			
Volume_1			
Volume_2			

Step 2: Here the user can choose which user accounts or group are allowed to access this folder(s). Select 'All account' to allow access to this folder to all the accounts. Select 'Specific User/group' to only allow certain users or groups access to this folder.

Click on the 'Back' 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: Here the user can select the appropriate access rights for the share. You can choose to give 'Read Only' or 'Read Write' access to the folder, or you can ' Deny Access' to the users you selected in Step 2.

Click on the 'Back' button to return to the previous window.

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





Step 3: Here the user can 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

	Opiocks	Map Archive	Comment
P2P			
Dava D			
•			

ShareCenter Pulse. Certain backup software attach this attribute to files that are being stored as backups.

Click on the 'Back' 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: Here the user can assign more privileges to that user can use in this share. Options to choose from are CIFS, AFP, FTP and NFS. 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 'Back' button to return to the previous window.

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

Step 3-1: Assign Privileges - Applications	×
Allow the user to access following applications:	
✓ CIFS	
☑ AFP	
L NF5	
Back Next Exit	-
	14

- **Step 3-2:** Here the user can configure 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 'Back' 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 2-1-1: FTP Settings	×
FTP Anonymous None	
FTP Anonymous Read Only	
FTP Anonymous Read / Write	
	Back Next Exit

Step 4: Here the user view a summary of the share created.

Click on the 'Back' button to return to the previous window.

Click on the 'Completed' button to accept the change and complete the wizard.

Step 4: Finish		×
Your settings are no to save the settings	ow complete. Review your settings below and then click the Finish button below s to your NAS.	
Share Name Read Only Read / Write Deny Access Application List	P2P - All Account - FTP	
	Dark Finish Fai	
	Back Finish Ext	

Quotas Page

The ShareCenter Pulse 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.

Quota Settings: Here the user can enable the quota settings option. Once the quota settings have been enabled the Status will change to started.

User Quota Settings: In this window all the users with their respective quotas will be displayed. Here the user can quickly and easily change the quota for each individual user by simply clicking on the parameter listed in the Limit column, shown here as 'Unlimited'.

After selecting the limit column parameter, the user will be able to configure the quota for the respective user.

To accept the new quota settings simply click anywhere in this windows outside the parameter field. This new quota will be displayed, like in this example 1000Mb.

QUOTA SETTINGS :

This section allows you to assign a quota to a group or user to limit the amount of storage they are allocated. By default, users and groups do not have a quota.

QUOTA SETTINGS :

Status : Stopped

Enable

USER QUOTA SETTINGS :

	Volume_1				Licer Name		
Limit	Used				ame	User Na	NO.
Unlimited	0 MB				t.	user 1	1
Page: 1/1,Total Records: 1	, and the second s	»[>	4	H.	Page: 1	

USER QUOTA SETTINGS :

No	a la contra c	Name				Volume_		
INO.	Use	name					Used	Limit
1	us	er 1					0 MB	0
	Page: 1		l.	1	*	M	d.	Page: 1/1,Total Records: 1

USER QUOTA SETTINGS :

	199-199			Volume_1	
INO,	User N	lame	Used		Limit
1	user	1		0 MB	1000 MB
	Page: 1	N N	> >[Page: 1/1,Total Records: 1

Group Quota Settings:

In this window all the groups with their respective quotas will be displayed. Here the user can quickly and easily change the quota for each individual group by simply clicking on the parameter listed in the Limit column, shown here as 'Unlimited'.

After selecting the limit column parameter, the user will be able to configure the quota for the respective group.

To accept the new quota settings simply click anywhere in this windows outside the parameter field. This new quota will be displayed, like in this example 1000Mb.

No. Group Name		
Used	Limít	
1 group1 0 MB	Unlimited	

No. Group Name	
Used	Limit
1 group1 0 MB	0

No	Crown	Nama		Volume_1	
NO,	Group	Name	Used		Limit
1	grouj	p1		0 MB	1000 MB
	Page: 1		> >		Page: 1/1, Total Records: 1

FTP Server Page

The ShareCenter Pulse 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 ShareCenter Pulse 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.
Passive Mode:	In situations where the device is behind a firewall and unable to accept incoming TCP connections, passive mode must be used.
Client Language:	Most standard FTP clients like Windows FTP, only support 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.

FTP SERVER SETTINGS :

Assign permissions for users and groups who will be accessing the FTP server from over the Internet.

This section contains the configuration settings for the build in FTP server. The server is easy to configure and allows up to 10 users to access the server locally or remotely at the same time.

Max UserMax. User	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 :
Client Language	Western European 👻
Flow Control	🖲 Unlimited 💿 🛛 x 10 KBs
SSL/TLS	Allow SSL/TLS connection only
	Apply Cancel



Please Note:

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

FTP Server Status: Here you can Start or Stop the FTP Server.

If you are behind a router, you will need to forward the FTP port from the router to the ShareCenter Pulse. Additional filtering and firewall settings may need to be modified on your router to allow FTP Access to the ShareCenter Pulse 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.

FTP SERVER STATUS	
Status	Stopped
Port	21
Max Users	10
Flow Control	Unlimited
Idle Time	10
Client Language	Western European
SSL/TLS connection	No
Passive Mode	55536~55663
	Start FTP Server

FTP Access Behind a Router

If you are behind a router, you will need to forward the FTP port from the router to the ShareCenter Pulse. Additional filtering and firewall settings may need to be modified on your router to allow FTP Access to the ShareCenter Pulse 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.

If you are using a D-Link router, such as the WBR-2310 used in the example below, your port forwarding rule should be similar to the following:

- **Name:** Type a name for the ShareCenter Pulse FTP server rule.
- **IP Address:** Enter the IP address of the ShareCenter Pulse.
- **Public Port:** Enter the public FTP port. By default, the port is 21.
- **Private Port:** Enter the private FTP port. By default, the port is 21.
- **Traffic Type:** Set the traffic type to TCP.

D-Link WBR-2310 SETUP ADVANCED SUPPORT lelpful Hints.. VIRTUAL SERVER IRTUAL SERVER RULES Check the Ann The Virtual Server option allows you to define a single public port on your router for redirection ame drop down menu to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting list of pre-defined online services such as FTP or Web Servers plications that yo Save Settings Don't Save Settings FIREWALL SETTINGS 20 - VIRTUAL SERVER RULES Traffic Type Port Schedule puter from the list o Name Public DNS-343_FTP << Application Name N 21 TCP Always V IP Address Private << Computer Name 1 192.168.0.32 Public Name << Application Name V TCP 💌 Always ~ IP Address Private Y << Computer Name ols>Schedules pao

If you use an FTP port other than 21, then users accessing the FTP server using an FTP client will have to specify the non-standard port, and users who are using a browser will have to specify the port in the URL (e.g. ftp://ftp.dns346.com:3000, where the FTP port is 3000).

FTP over TLS

Below we'll examine FTP over over TLS. For this example we'll use FireFTP. FireFTP is an open-source, cross platform FTP client for Mozilla Firefox users who want to use FTP or FTPS.

- **Step 1:** From the Tools menu click **FireFTP** to open the application in Mozilla Firefox.
- Step 2: Go to the Quick Connect drop down menu and choose Create an Account.



QuickConnect	<u>C</u> onnect	<u>E</u> dit <u>A</u> bort						La	g/Queue <u>I</u> ool:	: <u>H</u> elp
Create an account				Marowse					~	Cha <u>n</u> ge
Alpha Cyril Huang	ngs	Name Documents and Settings Inetpub	/ Туре	Date 🛱 May 19 2:23 AM Jun 15 3:35 PM			Name	∕ Туре	Date	Ę
Ruru Lu				May 19 1:42 AM						
Program Files		Program Files		Jun 29 9:58 AM	4		-			
E CS		5 Cotemp		Jul 1 8:39 AM May 20 5:38 AM	4					
			0 bat	Jun 26 8:27 AM May 19 12:11 AM	⇒					
)	CONFIG.SYS	0 sys	May 19 12:11 AM	4	N	4			
FireFTP 1.0.4 'Hun), O Bytes, Disk	Created by <u>Mime Čuvalo</u>					Binary	i i	1	

Step 3: Account Name:

Enter a name for this FTP connection here.

Host:

Enter the IP of the ShareCenter Pulse in here.

Login:

Enter the user's username in here.

Password:

Enter the user's password in here.

Main Details Account Name: DNS-321 Category: DNS-321 Category: Dot Dot Login: user1 Password: ••••• Anonymous	Connectio	n Advanced	
Account Name: DNS-321 Category: Image: Category: Im	Main Details		2-04 20-
Host: 192.168.69.32 ID Login: user1 Password: ••••• Anonymous	<u>A</u> ccount Nar	me: DNS-321	Cat <u>eg</u> ory:
ID Login: user1 Password: ••••• Anonymous	<u>H</u> ost:	192.168.69.32	
Anonymous	Password:	••••	
	Cassillar		
			OK Carre

Step 4: Go to the Connection Tab and set the Security function to 'Auth TLS (Best)'.

Then press **OK** to finish the setup.

	n Advanced		
Connection 1	уре		
🗹 Passiye	Mode		IPv6
Security:	Auth TLS (Best)	Port:	21
Private Key:	2	Browse, Cor	nvert
Local:		Use	<u>C</u> urrent C <u>u</u> rrent
	(Provide the second second second second discussion	in the birth

Step 5: Firefox and FireFTP will now start a series of security confirmations.

The first warning should look like this.

Click on the "**Or you can add an exception...**" button to accept the security change.

Step 6: The second warning should look like this.

Click on the "**Add exception...**" button to accept the security change.

Step 7: The next step is to get the certificate for the connection. Click on the "**Get Certificate**" button to acquire the certificate.

ecure	Connection Failed!	
0	WARNING!	
U	192.168.69.32 uses an invalid security certificate.	
	 The certificate is not trusted because the issuer certificate has ex The certificate does not come from a trusted source, 	pired.
	This could be a problem with the server's configuration, or it could be someone trying to impersonate the server.	
	If you have connected to this server successfully in the past, the error may be temporary, and you can try again later.	
	Cancel Or you can add an exception	
ecure Co	nnection Failed!	X
? Yo co	ou should not add an exception if you are using an internet connection that you do not true impletely or if you are not used to seeing a warning for this server. Get me out of here! Add exception	st
	Add Security Exception You are about to override how Firefox identifies this site. Legitimate banks, stores, and other public sites will not ask you to do this. Server Location: 192.168.69.32:21 Certificate Status	
	Permanently since this excertion	
	Confirm Security Exception Cancel	

- **Step 8:** After the certificate has been acquired click on the **"Confirm Security Exception**" button to finish the security confirmations.
- **Step 9:** Select the newly added FTP connection and click on the **Connect** option if it has not already connected by itself.

If you can see your files on the right block from the ShareCenter Pulse, the connection has been established successfully.





UPnP AV Server Page

The ShareCenter Pulse 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 ShareCenter Pulse 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 to enable or disable the ShareCenter Pulse UPnP AV server.

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

In the window the user 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:** The 'Refresh' button allows the user to update the files and folders of a selected share.

UPNP AV SERVER SETTINGS : This section allows you to configure the UPnP AV server. You can enable or disable the UPnP AV service, and specify the folder or directory that will be shared. The DNS-320 will automatically scan for file updates when content is added or deleted from the available folders. You can also click the "Refresh All" button to manually scan for file updates. Save Settings Don't Save Settings Refresh All UPnP AV SERVER SETTINGS : UPnP AV Server Enable O Disable 🙈 Add 🛛 🖧 Delete 🔍 Refresh NO. Shared Folder State 1 Volume_1/P2P 0 10 Page 1 of 1 Displaying 1 to 1 of 1 items **UPnP AV SERVER REFRESHING:**

Refreshed Successfully.

Finished

Add: After click the 'Add' button, the user will be able to select certain folder that will be included in the UPnP AV Server folder list.

Select the appropriate folder and click on the 'Save Settings' button to add the folders.



iTunes Server Page

The ShareCenter Pulse 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 ShareCenter Pulse 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' button to manually update the shared files and folders.

iTunes Server:	Select to enable or disable the iTunes Server.
Foldor	Specifies the folder or directory that will be share

- **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 folder.
- Password: Sets password for the iTunes server. (Optional)
- **MP3 Tag Codepage:** Here the user can select the MP3 Tag Codepage used by this device. Currently the Codepage is set to Western European.
 - **Auto Refresh:** Here the user can select the Automatically Refresh time.

ITUNES SERVER SETTINGS :

This section allows you to configure the iTunes server function. You can enable or disable the iTunes server function, set the password for the service, and specify the folder or directory that will be shared.

Save Settings	Don't Save Settings	Refre
Save Secongs	Don't bave berangs	1 1 1 2 11

iTunes Server	🖲 Enable 🔘 Disable
Folder	Root
	Volume_1 Browse
Password	
MP3 Tag Codepage	Western European 🔻 (default: Western European)

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

Source	Name	Time	Artist	Abum	Genre	My Rating	
Dickrary							ġ
Profile Accel Profile		Music Library I The Per	Rassword nuni: Risay requires a pa word	orwand OK Can	Cel .		

Select the ShareCenter Pulse. When prompted, enter in the iTunes server password. Click OK.

Source	Name		Time	Artist	14	Album		Gerre	My Rating	
D Lbrary	🛃 Intro	0	0:24	Aerosmith	0	Get A Grip	0	Rock		4
N disk-ADDHC1 =	Eat The Rich	0	4:10	Aerosmith	0	Get A Grip	0	Rock		1
o 90's Music	🖬 Get A Grip	0	3:50	Aerosmith	0	Get A Grip	0	Rock		
My Top Rated	e Fever	0	4:15	Aerosmith	0	Get A Grip	0	Rock		
Recently Added	S Livin' On The Edge	0	6:07	Aerosmith	0	Get A Grip	0	Rock		
Decently Played	🖬 Fiesh	0	5:56	Aerosmith	0	Get A Grip	0	Rock.		
Tory 25 Most Plaund	S Walk On Down	0	3:39	Aerosmith	0	Get A Grip	0	Rock:		
M Here a Land Landar	Shut Up And Dance	0	4:55	Aerosmith	0	Get A Grip	0	Rock		
	🖉 Cryin'	0	5:08	Aerosmith	0	Get A Grip	0	Rock		- 14
	🛃 Gotta Love It	0	5:58	Aerosmith	0	Get A Grip	0	Rock.		
	S Crazy	0	5:16	Aerosmith	0	Get A Grip	0	Rock		- 4
	🖬 Line Up	0	4:02	Aerosmith	0	Get A Grip	0	Rock.		
	Mental American	0	5:56	Aerosmith	0	Get A Grip	0	Rock.		
	🛃 Boogie Man	0	2:17	Aerosmith	0	Get A Grip	0	Rock		
	ST Politik	0	5:18	Coldplay	0	A Rush Of Blood T	0	Rock		
	In My Flace	0	3:48	Coldplay	0	A Rush Of Blood T	0	Rock		
	dig God Put A Smile Upon Your Face	0	4:57	Coldplay	0	A Rush Of Blood T	0	Rock		
	In Scientist	0	5:09	Coldplay	0	A Rush Of Blood T	0	Rock		
	🖬 Clocks	0	5:07	Coldplay	0	A Rush Of Blood T	0	Rock.		
	M Daylight	0	5:27	Coldplay	0	A Rush Of Blood T	0	Rock		
	🖬 Green Eyes	0	3:43	Coldplay	0	A Rush Of Blood T	ö	Rock		
	📽 Warning Sign	0	5:31	Coldplay	0	A Rush Of Blood T	0	Rock.		
	A Whisper	0	3:58	Coldplay	0	A Rush Of Blood T	0	Rock.		
	A Rush Of Blood To The Head	0	5:51	Coldplay	0	A Rush Of Blood T	0	Rock:		
	🚽 Amsterdam	0	5:19	Coldplay	0	A Rush Of Blood T	0	Rock		
	St Drive	0	4:32	R.E.M.	0	Automatic For Th	0	Rock		4

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

Time Machine Page

This section allows the user to configure the ShareCenter Pulse 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.

Time MachineHere the user can enable the Time Machine option.Settings:

After enabling the Time Machine option the following window will appear. In this window the user can add, delete and view Time Machine entries.

To add an entry, click on the 'Add' button. To delete an entry, click on the 'Delete' button. To remove all the Time Machine entries, click on the 'Remove All Network Shares' button.

To add NAS folders as a destination for the OS X Time Machine backup, carry out the following:

- 1. Check the Enable Time Machine box.
- 2. Click the 'New' button.
- 3. Check the boxes next to the NAS folders that you want to use as OS X Time Machine destinations.
- 4. Click the Next button.
- 5. If you want to edit the name that will be used to identify the NAS folders in the OS X Time Machine, click the Share Name that you want to modify and make the required name change.
- 6. When you have finished configuring the Time Machine settings, click the Completed button.

TIME MACHINE SETTINGS :

This section allows you to configure the NAS so that it becomes a backup destination in the 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.

Save Settings Don't Save Settings

TIME MACHINE SETTI	NGS:
☑ Enable Time Machine	2
🖧 New 🛛 🕹 Delete	Remove All Network Shares
Share Name	Path
Volume_1	Volume_1
10 🔻 🚺 🖣 Pa	ge 1 of 1 🕨 🎽 🌮 Displaying 1 to 1 of 1 items

In this window the user can select the path listed here and click on the 'Next' button to continue.

Share Name	Share Path	
Volume1	Volume_1	
< [P.

Select	Path		×
	Share Name	Path	
	Volume_1	Volume_1	
	P2P	Volume_1/P2P	
	Volume_2	Volume_2	
•		4	
10 ·	- 📢 🍕 Page 1 of	1 🕨 🔰 🤣 Displaying 1 to 3 of 3 items	
		Next	t

In this window the user can view the path selected and click on the 'Completed' button to compete the wizard. Alternatively the user can click on the 'Back' button to re-configure the path.

On this page the user can enable the Apple Filing Protocol service option. If the Time Machine option is used, this option should be enabled automatically.

AFP Service : Here the user can enable the AFP Service option. Enabling this service will disable the oplocks option.

Click on the 'Apply' button to accept the change.

AFP SERVICE SETTINGS :

Here the user can enable the AFP Service option. If the Time Machine option is used, this option should be enabled automatically.

AFP SERVICE SETTINGS :

AFP Service

Enable
Disable

(Notice: Enabling AFP service will disable oplocks.)

NFS Service Page

Here the user can enable the NFS Service option.

NFS Service : Here the user can enable the NFS Service option.

Click on the 'Apply' button to accept the change.

NFS SERVICE SETTINGS :

Here the user can enable the NFS Service option.

NFS SERVICE SETTINGS :	
NFS Service 🔘 Enable 🔘 Disable	
	Apply
(Notice: Applying any share to NFS service will disable oplocks.)	

Apply

Maintenance Section

- Admin Password: This section allows you to set a password for your admin account. By default there is no password configured. It is highly recommended that you set an admin password in order to keep your system secure.
 - **System:** The System Settings section allows you to restart the system, shutdown the system, or restore the device to the factory default setting. Restoring the unit to factory settings will erase all settings, including any rules that you have created.
- **Firmware Upgrade:** A new firmware update may be available for your ShareCenter Pulse. It is recommended that you keep your ShareCenter Pulse firmware up-to-date in order to maintain and improve the functionality and performance of your system.

D-Lin	1				
DNS-320	SETUP	ADVANCED	MAINTENANCE	STATUS	SUPPORT
Admin Password System Firmware Upgrade E-mail Alerts Power Management RAID Dynamic DNS	ADMINISTRATOR S This section allows you to By default there is no part to keep your system second Save Settings	SETTINGS : Dest a password for your ad ssword configured. It is high ure. Don't Save Settings	nin account. y recommended that you set an a	admin password in order	Helpful Hints For security reasons, it is recommended that you change the Password for the Administrator. Be sure to write down the new Password to avoid having to reset the DNS-320 in the event that it is are forgotten.
Disk Diagnostic	ADMINISTRATOR S User Name Password New Password Confirm Password	admin			
		ST	DRAGE		

E-mail Alerts: This section allows you to configure e-mails to be sent to you when certain operational and drive status conditions are present. These alerts can prove helpful in managing and safeguarding important data.

Power Management: This section allows you to enable or disable the Hibernation function.

- **RAID:** This section allows you to setup a RAID configuration on the selected hard drives. Please note that the data stored on the drives will be erased during the formatting process.
- **Dynamic DNS:** The Dynamic DNS feature allows you to host a server using a domain name that you have purchased with your dynamically assigned IP address.
- **Disk Diagnostic:** This section allows you to perform a health test on your hard drives. In addition, you can set a schedule for your tests and receive email notifications.

Admin Password Page

The Admin menu allows you to set a password for the admin account. It is recommended to set an admin account password when first configuring the ShareCenter Pulse.

ADMINISTRATOR SETTINGS :

This section allows you to set a password for your admin account.

By default there is no password configured. It is highly recommended that you set an admin password in order to keep your system secure.

Save Settings Don't Save Settings

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: Confirm Password:	Enter a new password. Enter the new password again for confirmation.

User Name	admin	
Password		
New Password		
Confirm Password		

System Page

The ShareCenter Pulse System menu provides options for system restarts, saving and loading configuration settings, and idle times setting.

Restart: Click on the 'Restart' button to reboot the device.

- **Default:** Click on the 'Restore' button to reset the device to its factory default settings. This will erase all previous configuration changes.
- **Shutdown:** Click on the 'Shutdown' button to turn off the device. This will help to prevent data loss.

Configuration Settings: Click on the 'Save' button to save the current configuration settings to a file on the local computer. If at a later time you need to reload this configuration after a system reset, browse the file and click Load.

SYSTEM SETTINGS :

The System Settings section allows you to restart the system, shutdown the system, or restore the device to the factory default setting. Restoring the unit to factory settings will erase all settings, including any rules that you have created.

The current system settings can be saved as a file onto the local hard drive. The saved file can be uploaded into the unit.

RESTART :	
System Restart.	
	Restart
BEELU T	
DEFAULT	
Restore To Factory Default Settings.	
, <u>-</u>	
	Restore
SHUTDOWN :	
System Shutdown.	
	Shutdown
CONFIGURATION SETTINGS :	
Save Configuration Settings	Save
Save comiguration Securitys.	Jave
Lond Conferentian Cottin	

Idle Time: Enter the time (in minutes) that the administrator will be allowed to remain idle while accessing the device configuration utility that users will be allowed to remain idle while accessing the download schedule settings.

System Temperature
Threshold:Here the user can configure the system temperature
threshold value. This value can be set in Fahrenheit or
Celsius.

IDLE TIME :	
Account Inactivity Timer 5 (Minutes)	Apply
SYSTEM TEMPERATURE THRESHOLD :	
System Temperature Threshold Fahrenheit 👻 149 °F	Apply

Firmware Upgrade Page

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.

FIRMWARE UPGRADE :

A new firmware upgrade may be available for your DNS-320. It is recommended to keep your DNS-320 firmware up-to-date to maintain and improve the functionality and performance of your storage device.

Click D-Link Support Page to check for the latest available firmware.

To upgrade the firmware on your DNS-320, please download and save the latest firmware version from the D-Link Support Page to your local hard drive. Locate the file on your local hard drive by clicking the Browse button. Once you have found and opened the file using the browse button, click the Apply button to start the firmware upgrade.

Firmware Version: Firmware Date: Firmware Upgrade:

The current firmware version is displayed here. The current firmware version date is displayed here. When upgrading the firmware, click Browse to select the new firmware file on your local computer. Click Apply to begin the firmware upgrade process.

CURRENT FIRMWARE INFORMATION :

Current NAS Firmware Version : 1.00

Firmware Path :

Firmware Date : 08/13/2010

DIOWSE

E-mail Alerts Page

With the ShareCenter Pulse E-Mail Alerts, you can configure e-mails to be sent alerting 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.	Save Settings] Don'
Username:	Enter the appropriate user name for your e-mail account.	F-MATI SETTIN	65 ·
Password:	Enter the appropriate password for your e-mail account.		421
Port:	Enter the SMTP port number used here.	Login Method	Acco
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.	User Name Password Port	25
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.	Sender E-mail Receiver E-mail	ation
Receiver E-Mail:	Enter the e-mail address you want to send the alerts to.		
SMTP Authentication:	This address must correspond with the SMTP server configu	red above.	
Test E-Mail:	Tick this option to use SMTP authentication.		
	Click the Test E-Mail button to send a test alert and confirm y	our settings are	correct.
Login Method:	Choosing Anonymous does not require a User Name or Password.	E-MAIL SETTIN	G5:
Port:	Enter the SMTP port number used here.	Login Method	O Acco
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.	Port SMTP Server Sender E-mail	25
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	

E-MAIL ALERTS:

This section allows you to configure e-mails to be sent to you when certain operational and drive status conditions are present. These alerts can prove helpful in managing and safeguarding important data.

Save Settings	Don't Save Settings	Clear Saved Settings
		<u><u>v</u></u>

E-MAIL SETTINGS :

ogin Method	Account Anonymous	
User Name		
Password		
Port	25	
SMTP Server		
Sender E-mail		
Receiver E-mail		
SMTP Authentic	ation	
Test E-Mail		

ogin Method	🔘 Account 🧕 Anonymous	
Port	25	
SMTP Server		
Sender E-mail		
Receiver E-mail		
Test E-Mail		

Enter the e-mail address you want to send the alerts to. This address must correspond with the SMTP server configured above. Receiver E-Mail:

Alert Types: Select the information you want e-mailed to the above address. The space status can be sent in intervals, while the other items will only be sent when necessary.

ALERT TYPES :

```
The Administrator Password Has Been Changed
Space Status
    Daily ▼ Time: 00 ▼ : 00 ▼
One Of The Volumes Is Full
Volume/Disk Status Has Been Changed
  A Disk Has Been Removed
  A Disk Has Been Inserted
  A Volume Has Crashed
  A Volume Has Been Rebuilt
  A Volume Has Degraded
  🗹 A Volume Is Rebuilding
System Temperature Is Over User Defined Threshold
Firmware Has Been Upgraded
Send Log File
  By Schedule
     When Log File Is Full
One Torrent Download Is Finished
Send S.M.A.R.T. Test Result
System Has Rebooted From Power Failure
```

Power Management Page

The ShareCenter Pulse 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:Enable or Disable HDD Hibernation settings.Turn Off Hard Drives:Set the amount of idle time before the drives will go into
hibernation.

Power Recovery: Enable or disable Power Recovery. The Power Recovery feature will automatically restart your device from a previously unexpected shutdown due to a power failure.

Fan Control Type: The speed of the fan can be controlled from this section. If using "Auto" mode, the speed of the fan will change (Off/Low/High) depending on the internal temperature of the enclosure.

Power Off Here the user can configure the power off schedule.

Scheduling: Enable of disable the power off schedule and configure the routine (Daily, Weekly or Monthly) and set the time.

POWER MANAGEMENT SETTINGS :		
This section allows you to enable or disable the Hard Drive Hibernation and Power Recovery options. You can also configure cooling fan speeds using the Fan Control settings and you can set the schedule for the automatic Power Off function.		
Save Settings Don't Save Settings		
HARD DRIVE HIBERNATION SETTINGS :		
HDD Hibernation : ● Enable Turn Off Hard Drives : After 5 minutes ◆		
POWER RECOVERY SETTINGS :		
Power Recovery : 💿 Enable 💿 Disable		
FAN CONTROL SETTINGS :		
Type : Auto (Off / Low / High) 🗸		
POWER OFF SCHEDULING SETTINGS :		
Power Off :		

RAID Page

The ShareCenter Pulse supports four different disk configuration types: Standard, where each drive is a unique volume, JBOD, which combines both drives in a linear fashion to create one volume, as well as RAID 0 and RAID 1.

RAID Configuration: Here the user can view the current RAID configuration and also (re-)configure the RAID setup.

Click on the 'Set RAID Type and Re-Format' button to change the current drive configuration. All data will be lost on your hard drives when changing the drive configuration.

To configure the remaining space into a new volume, click on the 'Create A New Volume From The Remaining Available Storage Space' button.

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.

Physical Disk Info:

In the section the user can view the physical hard disk information. Information displayed are:

1) Which slot is used.

2) The Hard Drive Vendor abbreviation.

3) The Hard Drive Model Code.

4) The Hard Drive Serial Number.

5) The Hard Drive Size.

HARD DRIVE CONFIGURATION :

This section allows you to setup a RAID configuration on the selected hard drives. Please note that the data stored on the drives will be erased during the formatting process.

AUTO-REBUILD CONFIGURATION allows you to enable or disable the Auto-Rebuild feature. You can also manually rebuild by dicking the "Manually Rebuild Now" button in the RAID CONFIGURATION section. Please note that rebuilding your volume will erase all data on the newly inserted drive.

C		
Current RAID Type		
Volume_1	: RAID 1 (Completed)	
Set RAID Type and F	Re-Format	
Create A N	ew Volume From The Remaining Available	Storage Space

HARD DRIVE CONFIGURATION :

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.

RAID	CONFIGU	RATION:		
Slot	Vendor	Model	Serial Number	Size
R	WDC	WD10EVVS-63M5B0	WD-WCAV52163551	1000 GB
L	WDC	WD5000AAKS-22YGA	WD-WCAS85512740	500 GB

RAID Configuration - Standard

- **Standard:** There are 4 types of RAID configuration to choose from, Standard, JBOD, RAID 0 and RAID 1. This section covers the Standard configuration.
- **Select A RAID Type:** Standard configuration creates two separate volumes (or one volume if only one hard drive is present). Each hard drive is its own volume. Select the appropriate RAID type and click on the '**Next**' button.
 - **Summary:** The next window will display the volumes connected and prompts that the RAID configuration will commence.

When ready click on the '**Format**' button to initiate the RAID configuration. This process will involve initializing, formatting and configuration of the RAID chosen.

A warning message will be displayed before the procedure starts stating that hard drives will be formatted and if the user wishes to continue. Click **'OK'** to continue.

After the configuration has completed the user will be prompted to click on the '**Finish**' button.

RAID CONFIGURATION:

Volume 2

Standard

Select A RAID Type :	 Standard (Individual Disks) JBOD (Linear - Combines Both Disks) RAID 0 (Striping - Best Performance) RAID 1 (Mirroring - Keeps Data Safe)
	Back) [Next]
RAID CONFIGURATION :	
Volume Type File System	Type Size
Volume_1 Standard	EXT 3 1000 GB

EXT 3 500 GB

			MESSAGE	
Δ	You are about to re-format the hard drive(s). All data will be erased. Do you wish to continue?			5
RAID CO	NFIGU	RATION:		
Maham	News	File Content	w.d.l	
Volume	name 1	File System EXT3	Standard	
Volume	2	EXT3	Standard	
	-			
			Fi	nish

Back

Format

RAID Configuration - JBOD

- **JBOD:** There are 4 types of RAID configuration to choose from, Standard, JBOD, RAID 0 and RAID 1. This section covers the JBOD configuration.
- **Select A RAID Type:** JBOD combines both hard drives in a linear fashion which will create one large volume geared towards maximum available space. Click '**Next**'.
 - **Summary:** The next window will display the volumes connected and prompts that the RAID configuration will commence.

When ready click on the '**Format**' button to initiate the RAID configuration. This process will involve initializing, formatting and configuration of the RAID chosen.

A warning message will be displayed before the procedure starts stating that hard drives will be formatted and if the user wishes to continue. Click **'OK'** to continue.

After the configuration has completed the user will be prompted to click on the '**Finish**' button.

RAID CONFIGURATION:

Select A RAID Type :	Standard (Individual Disks) IROD (Linear, Combined Bath Disks)
	RAID 0 (Striping - Best Performance)
	RAID 1 (Mirroring - Keeps Data Safe)
	Back Next
RAID CONFIGURATION :	
Volume Type File System	Type Size
Volume_1 JBOD	EXT 3 1491 GB
	Back
	MESSAGE
You are about to continue?	re-format the hard drive(s). All data will be erased. Do you wish to
_	OK Cancel
RAID CONFIGURATION :	
Volume Name File Syste	m Model
Volume_1 EXT3	JBOD
	Einich
	11031

RAID Configuration - RAID 0

- RAID 0: There are 4 types of RAID configuration to choose from, Standard, JBOD, RAID 0 and RAID 1. This section covers the RAID 0 configuration.
- Select A RAID Type: RAID 0 combines both hard drives in a striped fashion which will create one large volume geared towards maximum performance. Click 'Next'.
- **RAID Size Settings:** In this section the user can view the available capacity that RAID 0 can use on the hard drives installed.

Then the user can configure the desired capacity to be used for the RAID 0 configuration by entering the desired capacity amount in the block provided.

To utilize the remaining space, (if the two HDDs differ in capacity), the user can choose to use JBOD for the remaining space. Tick this option is needed. Click 'Next'.

Summary: The next window will display the volumes connected and prompts that the RAID configuration will commence.

> When ready click on the 'Format' button to initiate the RAID configuration. This process will involve initializing, formatting and configuration of the RAID chosen.

> A warning message will be displayed before the procedure starts stating that hard drives will be formatted and if the user wishes to continue. Click '**OK**' to continue.

After the configuration has completed the user will be prompted to click on the 'Finish' button.

KAID CONFIGURATION :				
Select A RAID Type :	Standard (Individual Disks)			
	JBOD (Linear - Combines Both Disks)			
	RAID 0 (Striping - Best Performance)			
	RAID 1 (Mirroring - Keeps Data Safe)			
		Back Next		
RAID CONFIGURATION :				
Available capacity of Raid 0 v	olume: 995 GB			
Enter the desired capacity of Raid 0 volume : 995 GB The remaining space will become a JBOD (Linear) volume. Remaining space : 502 GB				
Configure the remaining	disk space as JBOD.			
0 GB		995 GB		
		Back Next		

RAID CONFIGURATION :
Volume Type File System Type Size Volume_1 RAID 0 EXT 3 995 GB Back Format
MESSAGE
You are about to re-format the hard drive(s). All data will be erased. Do you wish to continue?
RAID CONFIGURATION:
Volume Name File System Model Volume_1 EXT3 RAID 0

RAID Configuration - RAID 1

RAID 1: There are 4 types of RAID configuration to choose from, Standard, JBOD, RAID 0 and RAID 1. This section covers the RAID 1 configuration.

Select A RAID Type: RAID 1 mirrors the hard drives for redundancy. If one hard drive fails, the other still has all of the data. Replace the failed hard drive and it will re-mirror, restoring maximum data protection. Click '**Next**'.

Auto-RebuildAuto-Rebuild is a feature that will allows the ShareCenterSettings:Pulse to initiate the Rebuilding phase automatically. The
Rebuilding phase will occur when one or more hard
drives fail and is replaced by a new one. Click 'Next'.

WARNING - This feature will automatically format the newly added drive. If this feature is NOT required, click disable.

RAID Size Settings: In this section the user can view the available capacity that RAID 1 can use on the hard drives installed.

Then the user can configure the desired capacity to be used for the RAID 1 configuration by entering the desired capacity amount in the block provided.

To utilize the remaining space, (if the two HDDs differ in capacity), the user can choose to use JBOD for the remaining space. Tick this option is needed. Click '**Next**'.

In this section a summary of the configuration will be displayed. When ready click on the '**Format**' button to initiate the RAID configuration. This process will involve initializing, formatting and configuration of the RAID chosen.

RAID CONFIGURATION :

Select A RAID Type :	 Standard (Individual Disks) JBOD (Linear - Combines Both Disks) RAID 0 (Striping - Best Performance) RAID 1 (Mirroring - Keeps Data Safe) 	Back Next
RAID CONFIGURATION :		
 Enabi Disab 	le Auto-Rebuild le Auto-Rebuild	Back Next
RAID CONFIGURATION :		
Available capacity of Raid 1 vo	olume: 497 GB	
Enter the desired capacity of The remaining space will beco Remaining space : 503 GB	Raid 1 volume : 497 GB ome a JBOD (Linear) volume.	
Leaving the remaining displayed in the remain	sk space for future.	
0 GB		497 GB Back Next
RAID CONFIGURATION :		
Volume Type File System Volume_1 RAID 1 E	Fype Size EXT 3 497 GB	Back Format
	MESSAGE	
You are about to recontinue?	e-format the hard drive(s). All data will be erase	ed. Do you wish to

A warning message will be displayed before the procedure starts stating that hard drives will be formatted and if the user wishes to continue. Click **'OK'** to continue.

After the configuration has completed the user will be prompted to click on the '**Finish**' button.



Auto-Rebuild Configuration: Auto-Rebuild allows a degraded RAID 1 array to be automatically rebuilt when the failed hard drive is replaced by automatically restoring data from the existing hard drive to the newly inserted hard drive.

AUTO-REBUILD CONFIGURATION :	
🔘 Enable Auto-Rebuild	
Disable Auto-Rebuild	
Manually Rebuild Now	
2. New product of the state	

Dynamic DNS Page

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 your IP address.

DDNS:	Select Enable or Disable.					
Server Address:	Enter the DDNS server address or select from the drop- down menu.					
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:	Re-enter your password or 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 :

The Dynamic DNS feature allows you 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 host name to connect to your NAS no matter what your IP address is.

Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com.

Save Settings Don't Save Settings

DDN5:				
DDNS	Enable O Disable			
Server Address		<<	Select Dynamic DNS Server	
Host Name				
Username or Key				
Password or Key				
Verify Password or Key				
Status				



Send result by E-mail:

Create Schedule:

Disk Diagnostic Page

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 HDD is grayed out, then it does not support S.M.A.R.T.

Scan Disk: Scan Disk will scan your system's file system for errors and/or corruption. After completion, any errors on your file system will be displayed accordingly.

- **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 press "Start" to run the test.
 - 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.

Enable this function in order to have the results of the S.M.A.R.T test sent to you by e-mail.

SCAN DISK : Volume : All Volume(s) -Scan Disk S.M.A.R.T TEST : Slot Manu. Model **Progress Result** All WD10EVVS-63M5B0 R WDC 1 WDC WD5000AAKS-22YG Test type : 🥘 Quick test 🔘 Extended test Send result by E-mail

DISK DIAGNOSTIC SETTINGS :

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.

Start

This option will allow you to scan for any errors on your device's hard drive. Upon completion any disk errors will be displayed for your notification.
S.M.A.R.T Result: After the S.M.A.R.T test finished, the 'Result' will be displayed.



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. To remove a schedule, simply click on the trash can icon.

SCHEDULE LIST :			
Type	Slot / Volume	SCHEDULE	Delete
S.M.A.R.T - Quick	Right	00:00 / Daily	ω.

Status Section

- **System Info:** View a summary of the device information here.
- Hard Drive Info: View a summary of the hard drive information here.
 - **Logs:** Use this option to view the NAS system logs and the FTP logs.

-320	SETUP	ADVANCED	MAINTENANCE	STATUS	SUPPOR
m Info	DEVICE INFORMATION	H:			Helpful Hints
ive Info					
	View a summary of the devic	e information here.			
	LAN Info				
	IP Address	192.168.6	9.32		
	Subnet Mask	255,255,2	55.0		
	Gateway IP Address	192, 168, 6	9.1		
	Mac Address	00:32:30:	01:00:01		
	DNS1	192.168.6	9.1		
	DNS2				
	Device Info				
	Workgroup	workgroup			
	Name	dlink-d100	01		
	Description	DNS-320			
	System Temperature	120°F/49°	c		
	Current Rx/Tx	5886/7648	1 6229/53 (6		
	System Up Time	0 day 0 h	our 56 minutes		
	Volume Info				
	Volume Name	Volume_1			
	Volume Type	RAID 1			
	Sync Time Remaining	Completed			
	Total Hard Drive Capacity	489205 M	3		
	Used Space	207 MB			
	Unused Space	488998 M	3		

System Info Page

View a summary of the device information here.

DEVICE INFORMATION :

LAN INFORMATION :

View a summary of the device information here.

LAN Info: Displays the local network settings of the ShareCenter Pulse.

Device Info: Displays the workgroup, name, description and current temperature of the ShareCenter Pulse.

DEVICE INFORMATION :

Workgroup : workgroup Name : dlink-d10001 Description : DNS-320 System Temperature : 116°F/47°C Current Rx/Tx : 24970/31722 System Up Time : 0 day 3 hours 24 minutes

IP Address : 192.168.69.32 Subnet Mask : 255.255.255.0 Gateway IP Address : 192.168.69.1

> Mac Address : 00:32:30:D1:00:01 DNS1 : 192.168.69.1

> > **DNS2**:

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

VOLUME INFORMATION :

Volume Name : Volume_1 Volume Type : RAID 1 Sync Time Remaining : Completed Total Hard Drive Capacity : 489205 MB Used Space : 207 MB Unused Space : 488998 MB

Hard Drive Info Page

This section will display a summary of the hard drive(s) currently installed in the ShareCenter Pulse. 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.

HARD DRIVE INFO. :

View a summary of the hard drive information here.

Slot	Manu.	Model	Serial Num	ber	Temp	Size	Status
R	WDC	WD10EVVS-63M5B0	WD-WCAV52	163551	40 °C / 104 °F	1000 GB	Norma
L	WDC	WD5000AAKS-22YGA	WD-WCAS85512740		44°C / 111°F	500 GB	Normal
lot R S	S.M.A.R.T	Info					
ID	Item		Now	Wors	t Thresh	Raw	Value
1	Raw_R	ead_Error_Rate	200	200	51	0	11
3	Spin_Up_Time		112	108	21	7358	
4	Start_Stop_Count		100	100	0	651	
5	Reallocated_Sector_Ct		200	200	140	0	
7	Seek_Error_Rate		200	200	0	0	
9	Power_On_Hours		97	97	0	2424	-
10	Spin_Re	etry_Count	100	100	0	0	
11	Calibration_Retry_Count		100	100	0	0	
12	Power_Cycle_Count		100	100	0	204	
192	Power-	Off_Retract_Count	200	200	0	196	
193	Load_Cycle_Count		169	169	0	93849	Ð
194	Temperature_Celsius		107	99	0	40	°
196	Reallocated_Event_Count		200	200	0	0	
197	Current_Pending_Sector		200	200	0	0	
198	Offline_Uncorrectable		200	200	0	0	
199	UDMA	CRC_Error_Count	200	200	0	0	
200	Multi Z	one Error Date	200	200	0	0	

HARD DRIVE INFO. :

Slot	Manu. Model		Serial Number		Temp	Size	Status
R	WDC	WD10EVVS-63M5B0	WD-WCAV52	163551	38°C / 100°F	1000 GB	Normal
L	WDC	WD5000AAKS-22YGA	WD-WCAS85	512740	31°C / 87°E	500 GB	Normal
Slot L S	M.A.R.T	info	Now	Wors	t Thresh	Raw	Value
1	Raw R	ead Error Rate	200	200	51	0	Value
3	Spin U	o Time	184	8	21	5766	5
4	Start S	top Count	99	99	0	1160	
5	Reallocated Sector Ct		200	200	140	0	
7	Seek Error Rate		200	200	51	0	
9	Power_On_Hours		96	96	0	3646	
10	Spin_Retry_Count		100	100	51	0	·
11	Calibration_Retry_Count		100	100	51	0	
12	Power_Cycle_Count		100	100	0	447	
192	Power-Off_Retract_Count		200	200	0	626	
193	Load_C	yde_Count	200	200	0	1381	
194	Temper	ature_Celsius	119	83	0	31	
196	Reallocated Event Count		200	200	0	0	
197	Current_Pending_Sector		200	200	0	0	
198	Offline_Uncorrectable		200	200	0	0	
199	UDMA	CRC_Error_Count	200	200	0	0	
200	Multi Z	one Error Rate	200	200	51	0	

Logs Page

Use this option to view the NAS system logs and the FTP logs.

System Log: View the System log.

LOGS :

Use this option to view the NAS system logs and the FTP logs.

Date	Time	Info	
Jan 14	00:54:05	System Has Rebooted From A Power Failure.	*
Jan 14	00:54:08	System up	
Jan 14	00:54:13	fan_control mode is [auto: high/low/stop]	
Jan 14	00:54:14	change fan speed to stop.	
Jan 14	00:59 <mark>:44</mark>	System shutdown.	
Jan 16	07:56:27	System Has Rebooted From A Power Failure.	=
Jan 16	07:56:29	System up	
Jan 16	07:56:32	fan can't stop or fan doesn't exist.	
Jan 16	07:56:35	fan can't stop or fan doesn't exist.	
Jan 16	07:56:35	fan_control mode is [auto: high/low/stop]	
•		m	E.

Support Section

Support: In the Support Section, the user can find more information about every feature listed on this device.



Schedule Downloads Section

- **Local Backups:** Schedule local file and folder backups from the local network share. Always test the URL before applying changes. This will help to ensure a successful download.
- **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.

D-Lin	ĸ				
DNS-320 //	SCHEDULE DOWNLOADS	P2P DOWNLOADS	AJAXPLORER	SUPPORT	
Local Backups FTP/HTTP Downloads Logout	SCHEDULED BACKUP Schedule local file and i Save Settings SCHEDULED BACKUP Category Type URL Save To Rename When Recurring Backup SCHEDULED BACKUP	S : folder backups from the loc Don't Save Settings S SETTINGS : © Internal Backup © File • Date: 08/18/2010 None • 00 • : : Incremental Backup S LIST :	al network share. LAN Backup Local Ter Browse Time: 01 v : 54 v	t	Helpful Hints Always test the URL before applying changes. This will help to ensure a successful download.
	Download Path	Save To	Progres	s	

Local Backups Page

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

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

- **User Name:** Enter the user name used here.
- **Password:** Enter the password used here.

SCHEDULE BACKUPS :

Schedule local file and folder backups from the local network share.

Save Settings Don't Save Settings

SCHEDULE BACKUPS SETTINGS :

Category	🔘 Internal Backup 🔘 LAN Backup
Login Method	Account O Anonymous
User Name	
Password	
Туре	File 👻
URL	[Local] Test
Save To	Browse
Rename	
When	Date: 08/10/2010 Time: 01 - : 31 -
Recurring Backup	None - 00 - : 00 -
	Incremental Backup

- **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 ShareCenter Pulse, or click Browse to select the destination.
- Rename: Enter the renamed file name here.
- When: Enter the date and time you want the scheduled backup or download to initiate.

Recurring Backup: Designate the interval and time you want the backup or download to run unattended.

Incremental Backup: By default all local backups and file/folder downloads 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 ShareCenter Pulse compare identical file names at the source and destination. Files will only be overwritten if the source file is more recent.

Schedule List: The Schedule List will display all completed, active, and pending scheduled downloads and backups.

In this window the user can also modify an entry by clicking on the 'Edit' button, and remove an entry by clicking on the 'Delete' button.

7/26/10 11:3

FTP/HTTP Downloads Page

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, choose 'Anonymous'. If a password is required, choose 'Account' and provide the user name and password.
 - **User Name:** 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. Choose 'File' if you wish to download a specific file. Choose '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).
 - **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.

SCHEDULE DOWNLOADS SETTINGS :

Schedule file and folder backups from an FTP server, web server, or local network share.

Save Settings	Don't Save Settings

SCHEDULE DOWNLOADS SETTINGS :

Category	🖲 ЧТТН 🔘 ЧТН
URL	Test
Save To	Browse
Rename	
When	Date: 07/26/2010 Time: 11 ▼ : 21 ▼
Recurring Backup	None

SCHEDULE DOWNL	DADS SETTINGS :
Category	
Login Method	C Account O Anonymous
User Name	*****
Password	8 8 8 8 9
Туре	File 💌
URL	Test
Save To	Browse
Rename	Ĩ
Language	None 👻
When	Date: 07/26/2010 Time: 11 ▼ : 21 ▼
Recurring Backup	None 💌 00

- **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 Backup:** 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 Backup:** This type of backup, if used, will compare files of identical names on both the source and destination folders. If the source 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 Download

Pending and completed download events will be listed
 here. The current status for each event is displayed
 here. In addition, there is an option to delete a download
 event at any time. 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.

SCHEDULE DOWNLOADS LIST		
🐉 Modify 🛛 🔒 Delete		
Download Path	Save To	Progress
10 🔻 📢 🖣 Page 1 of 1	🕨 🕨 🤣 No items	

P2P Downloads Section

- **Downloads:** On this page the user can add, view and remove current downloads.
 - **Setting:** On this page the user can configure the P2P download manager settings.



Downloads Page

Here the user can configure the Peer-to-Peer download manager settings.

Add torrent from		Here you can configure your P2P download manager settings.
URL:	In the field provided you can copy and paste a link to a torrent file hosted on the internet. The BitTorrent download manager will add the torrent file to the download manager and being downloading your files.	P2P DOWNLOADS : Add Torrents from URL Add Torrent
Add torrent from File:	Here you can browse for a torrent file you have downloaded onto your PC.	Add Torrent From File
P2P Tasks:	This allows you to load the torrent file from your local PC.	Browse
	In this windows all the running tasks will be displayed.	
Remove Completed:	The user can click on the 'Remove Completed' button to remove finished downloads. Sometimes identifying finished jobs, when multiple downloads exist, can be difficult. This option make is easy for the user to remove finished downloads from the list with a single click.	P2P TASKS : Image: Second sec
Details:	The 'Details' button allows the user to view the files that are being downloaded for each torrent.	
Top, Up, Down, Bottom:	The 'Top', 'Up', 'Down' and 'Bottom' buttons allows the user to move the selected P2P download in the task list. The downloads at the top of the list carries more priority than the one list below them.	
Delete:	The 'Delete' button allows the user to remove a selected download. This will remove not only the torrent file, but also the partially downloaded files too	10 Image 1 of 1 Image 1 Displaying 1 to 2 of 2 items Total : 2 Torrent(s) Total UL Speed : 0.0 (KBps) Total DL Speed : 0.0 (KBps)
Start/Stop:	The start and stop button allows the user to start and stop se	elected P2P downloads in the task list.
Torrent Scheduling:	The 'Torrent Scheduling' button allows the user to configure	a scheduling rule for the select P2P downloading task.
Navigation:	At the bottom of the P2P Task window there are a couple of will be displayed by using the drop-down menu. The user ca	navigation controls. When multiple tasks exist, the user can select how many tasks an also navigate to next pages when more than one page exist.
D ()		

The refresh button allows the user to refresh the P2P task list to display the most updated statistics. Refresh:

P2P SETTINGS:

your P2P download manager settings.

dd forrents from OKL				Add	Torrent		
dd Torrent From File				Brows	ie)[Add Torrent]
				19			
P TASKS :							
& Remove Completed 🔲 Deta	ails 👔	Тор 💽	Up 🛃 Down	🛃 Botton	n 📋 D	elete	
ame	Priority	Size	Progress		Status	UL DL Speed	Start/Sto
mandriva-linux-free-2010.0-i586	1	4.2GB] 0%	0	0.0 KBps / 0.0 I	
D Link AirDhus XtramaC Utility (V	2	19.9MB		0%	0	0.0 KBps / 0.0 I	
D-LINK AIPPus Acremed Utility (V							
U-LINK AIRPIUS AURITIEG ULIILY (V							
u-Link Airpids Acremed Utility (V							
u-link Airpius Acremed Utility (V							
o-link Airpus Areffied Utility (V							

Setting Page

On this page the user can configure the P2P download manager settings.

P2P:	Here the user can enable or disable the peer to peer function.
Start/Stop:	In the block provided the user can configure the running schedule for P2P downloads. Simply select the 'Start' and 'Stop' block for the appropriate Date and Time.
Auto Download:	Here the user can enable or disable the automatic download option.
Port Settings:	Here the user can choose to allow the device to automatically choose an incoming connections port or you can configure the incoming connections port manually.
Seeding:	Here the user can configure some seeding options.
Torrent Save Path:	Here the torrent path will be displayed.
Encryption:	Here the user can choose to enable or disable the encryption used.
Bandwidth Control:	Here the user can choose to allow the device to automatically choose the bandwidth control speed, or you can manually configure the maximum download rate and maximum upload rate. Enter the value '-1' to set the respective field to 'unlimited'.

P2P SETTINGS:

Here you can configure your P2P download manager settings.

Save Settings	Don't Save Settings
Save Settings	Don't Save Settings

P2P SETTIN	IGS	i :																							
P2P					6	0 E	nab	le						0 0	isab	le									
E Start		ľ	5	Stop	5																				
Date\Time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Sun																									
Mon																									
Tue																									
Wed																									
Thu																						U.			
Fri						1																1			
Sat																									
Auto Downk	bad							۲	Ena	ble								C	D	isab	le				
Port Setting	5							0	Aut	om	atic							C	0 0	usto	m				
								In	com	ning	CO	nne	ctio	ns p	oort			68	382					Ĵ	(10000 ~ 65000)
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Torrant Cour	. D-	th						Val	510	μ 51		arg	vy10	enti	nee									- 5	
Torrent Save	: Pa	irti						VUI	une.	_1	T .							~			1002-				
Encryption	7/250	000	D-	1923.				۲	Ena	ble								C	D	isab	le				
Maximum Do (kB/s)	wn	load	ка	té				-1										de	efau	ilt:-	1 (1	Inlin	nite	d)	
Maximum Up	load	Ra	te					-1						1				de	efau	ılt:-	1 (L	Inlin	nite	d)	

Ajaxplorer Section

Launch: 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.



Launch Page

On this page you can launch the AjaXplorer.

AJAXPLORER :

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

Launch Interface: To launch the AjaXplorer's Interface for configuration, click on the 'Launch Interface' button.

Below is what the Interface looks like. You will now be able to upload, download, rename, copy, move, delete, or create files and folders on your NAS.

AJAXPLORER :

Launch Interface

🖉 AjaXplorer - /			<u>ن</u> الأ	🔊 👻 🖃 🖛 🔻 Page 🕶 Safety 🕶 Tools 🕶 🔞 💌
Display Upload New Dir New Elle Dognicad Rename Copy Move Delete Abou	t Back			
Default Files 🔹 1				Logged as admin Z
Folders	Filename	Size	Туре	Modified
	20100108.pdf			
+- 📓 Recycle Bin	> 20100115.pdf	169.85 Kb	PDF File	2010/07/26 19:36
	> 20100122.pdf	168.76 Kb	PDF File	2010/07/26 19:36
	> 20100226.pdf	168.02 Kb	PDF File	2010/07/26 19:36
	> 20100305.pdf	165.7 Kb	PDF File	2010/07/26 19:36
	> 20100312.pdf	166.22 Kb	PDF File	2010/07/26 19:36
	> 20100319.pdf	162.96 Kb	PDF File	2010/07/26 19:36
	Di 20100326.pdf	164.97 Kb	PDF File	2010/07/26 19:36
	> 20100402.pdf	162.08 Kb	PDF File	2010/07/26 19:36
	> 20100409.pdf	169.07 Kb	PDF File	2010/07/26 19:36
	Di 20100423.pdf	169.81 Kb	PDF File	2010/07/26 19:36
Details III Frank	20100430.pdf	161.72 Kb	PDF File	2010/07/26 19:36
Details Details	20100507.pdf	161.72 Kb	PDF File	2010/07/26 19:36
	> 20100514.pdf	160.53 Kb	PDF File	2010/07/26 19:36
	> 20100521.pdf	161.46 Kb	PDF File	2010/07/26 19:37
0	> 20100604.pdf	168.98 Kb	PDF File	2010/07/26 19:37
Name : 20100108.pdf Size : 170.13 Kb	👔 Recycle Bin	22	Trashcan	2010/07/26 18:48
Type : PDF File				
Last Modif. : 2010/07/26 19:36	~			
V Download				
File Permissions				
	<u>.</u>			

Support Section

Support: In the Support Section, the user can find more information about every feature listed on this device.



Knowledge Base Mapping a Drive

You can use the D-Link Easy Search Utility to map drives to your computer. Insert the DNS-320 CD into your CD-ROM drive.



1. Click Easy Search Utility. The Easy Search Utility will load and detect any DNS-320 devices that are on the local network. If the ShareCenter Pulse you are working with does not show up in the device list, click Refresh.



2. Highlight an available ShareCenter Pulse. Available volumes will be displayed under Drive Mapping. Highlight the volume you want to map. Select an available drive letter from the drop-down menu and click Connect. Once connected, your mapped drive(s) will appear in My Computer.

📱 My Computer			
Elle Edit View Favorites Iools	Rep		1
(10 · (·)	earch 🌔 Folders 🛄 -		
Address 🖳 My Computer		🔜 🛃 Go	Norton Anti/Irus 😣 -
System Tasks (a) Were system infumation Add or memore programs Charge a setting Other Places (a) My Retrock Flaces: My Retrock Flaces: Charge Inevel Strend Documents Constraints	None - (2) 11 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Type 3%-Inho Poppy Dak Local Dak Local Dak Local Dak Local Dak Maturok Dhine System Fridder rolder	Total Sce 2.40 GB 4.39 GB 0.59 GB 148 GB
Detais (A) Seagade, b1 on 70 Link (Mercel Carego Adapter (Mercel Carego Adapter Mercel Carego Adapter (Mercel Carego Adapter) (Mercel Carego Adapter)			
	¢		.8

3. Double-click the My Computer icon on your desktop. Double-click on the mapped drive to access the files and folders.

Replacing or Adding a New Hard Drive

It is recommended that you backup your important files before replacing or adding a new hard drive to the ShareCenter Pulse.

Replacing a Hard Drive:

Please make sure the power is off before replacing a hard drive. After you have installed the new drive, turn on the ShareCenter Pulse and then connect to the Web UI. The ShareCenter Pulse will prompt you to format the new drive (Standard, RAID 1 mode) or both drives (JBOD, RAID 0 mode).

Adding a New Hard Drive:

The ShareCenter Pulse is able to work with one single hard drive under Standard mode. Please make sure the power is off before installing a second hard drive. After you have installed the new drive, turn on the ShareCenter Pulse and then connect to the Web UI. The ShareCenter Pulse will prompt you to format the new drive.

Note: Formatting a hard drive will erase the data stored on the hard drive. Please backup important data before formatting a hard drive.

Secure HTTP Login

Apart from logging into the web user interface using the normal http://192.168.0.32/, user can also login to the web configuration using secure https.

1) Open Internet Explorer and type https://192.168.0.32

2) Login to the ShareCenter Pulse as per normal.



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 providing a different method of sharing or distributing data amongst the drives. The ShareCenter Pulse supports RAID levels 0 and 1.

RAID 0

RAID 0 provides data striping, which spreads out blocks of data over both 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 both 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 both disks, RAID 1 provides fault tolerance and protection, in addition to performance advantages.





RAID 1 - Auto Rebuilding

When a hard drive fails or becomes corrupted RAID 1 provides a the feature to enable the Auto Rebuild configuration. This configuration will take the information from one of the existing hard drives and rebuild the new hard drive with the same information to get the RAID 1 configuration completed.

Information:	To view the hard drive status you can got to STATUS > SYSTEM
	INFO and monitor the Sync Time Remaining field. If it displays
	'Completed' the RAID 1 configuration is functioning normal.

Volume Name	Volume_1	
Volume Type	RAID 1	
Sync Time Remaining	Completed	
Total Hard Drive Capacity	489205 MB	
Used Space	207 MB	
Unused Space	488998 MB	
Volume Info		
Volume Name	Volume_1	
Volume Type	RAID 1	
Sync Time Remaining	Degraded	
Total Hard Drive Capacity	489205 MB	
Used Space	1161 MB	
Unused Space	488044 MB	
RAID CONFIGURATION :		
RAID CONFIGURATION :		
RAID CONFIGURATION : Current RAID Type Volume_1 : R/	ID 1 (Degraded)	
RAID CONFIGURATION : Current RAID Type Volume_1 : RJ Set RAID Type and Re-For	ID 1 (Degraded)	
RAID CONFIGURATION : Current RAID Type Volume_1 : R/ Set RAID Type and Re-For Create A New Vol	ID 1 (Degraded) nat me From The Remaining Available Storage Space	
RAID CONFIGURATION : Current RAID Type Volume_1 : R/ Set RAID Type and Re-For Create A New Vol	ID 1 (Degraded) nat me From The Remaining Available Storage Space	
RAID CONFIGURATION : Current RAID Type Volume_1 : R/ Set RAID Type and Re-For Create A New Vol AUTO-REBUILD CONFIGUR	ID 1 (Degraded) nat me From The Remaining Available Storage Space	
RAID CONFIGURATION : Current RAID Type Volume_1 : R/ Set RAID Type and Re-For Create A New Vol AUTO-REBUILD CONFIGUR	ID 1 (Degraded) nat me From The Remaining Available Storage Space	
RAID CONFIGURATION : Current RAID Type Volume_1 : RJ Set RAID Type and Re-Ford Create A New Volu AUTO-REBUILD CONFIGUR © Enable Auto-Rebuild © Disable Auto-Rebuild	ID 1 (Degraded) nat me From The Remaining Available Storage Space	

Degraded: However if it displays 'Degraded' then one of the hard drives have either failed or is starting to fail. This mean that the problematic hard drive needs to be replaced.

Step 1: After the new hard drive is inserted into the ShareCenter Pulse go to **TOOLS > RAID** and you'll now have the option to start the **Auto Rebuilding** process if Auto Rebuild was disabled from the beginning. If Auto Rebuild was enabled from the beginning the ShareCenter Pulse will start this Rebuilding process automatically.

You can now click the **Manually Rebuild Now** button to initiate the Auto Rebuilding process.

- RAID 1 Auto Rebuilding (continued)
 - **Step 2:** After clicking the Manually Rebuild Now button the **Syncronizing** will start and take some time to finish.
 - Monitoring: To monitor the progress of the Auto Rebuilding process you can go to STATUS > SYSTEM INFO and monitor the Sync Time Remaining to know how far the Rebuilding process is.

RAID CONFIGURATION :		
	HD data is syncing now	
	0%	
Volume Info		
Volume Name	Volume_1	
Volume Type	RAID 1	
Sync Time Remaining	2 % complete	
Total Hard Drive Capacity	489205 MB	

1161 MB

488044 MB

Used Space

Unused Space

Alternatively you can also use your **Yahoo! Widget** to monitor the progress of the Rebuilding process.



Yahoo! Widget Installation

D-Link provides an added feature to the ShareCenter 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 downloaded. 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 ShareCenter Pulse and click on the Save button.

Now your 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 on your ShareCenter Pulse.

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







otal Speeds	
ownload: 0b/s Upload: 0b/s	

USB Copy

Your ShareCenter has a USB Copy feature, which allows you to connect a USB storage drive to the front USB port and upon pressing the USB Copy button, the contents of the USB storage drive will be automatically copied to the ShareCenter.

- **Step 1:** Insert a USB storage device into the front USB port, located behind the front flap on the front of the ShareCenter. The USB LED will start to flicker and once the light is lit solid, the USB storage device is ready for use.
- **Step 2:** Press and hold the USB Copy button for 1-3 seconds. The ShareCenter will create a new folder in the Volume 1 folder and will copy all the files from the USB storage device to this folder.
- **Step 3:** To unmount the USB storage device after the copy is complete so you may safely remove the USB storage device, press and hold the USB Copy button in for 5 seconds. When the USB LED turns off, the USB storage device has successfully unmounted and is ready to be removed.

To check if the USB storage device is connected properly, go to the **Status Page > System Info** page in the Web GUI of the ShareCenter and view the **USB Info** section.

Note: You should always unmount your USB storage device before removing it to prevent any data loss.



JSB Info		
Manufac	cturer : SanDisk Corporation	
Pro	oduct : U3 Cruzer Micro	
	Size : USBDisk1_1,987.96 MB	
Un	nmount	



Technical Spesifications

Physical and Environmental				
Operating Temp	:	0 ~ 40°C		
Operating Humidity	:	90% Maximum (Non-condensing)		
Storage Temp	:	-20 ~ 50°C		
Storage Humidity	:	5 ~ 90% (Non-condensing)		
Dimensions	:	Item: 18.2 x 14.6 x 11.3 cm (h/l/w) Packaging: 18.2 x 14.6 x 11.3 cm (h/l/w)		
Weight	:	0.8 kg		
EMI	:	FCC Class B, CE, VCCI, CSA, C-Tick		

Specifications				
Standards	:	IEEE 802.3 10Base-T Ethernet		
		IEEE 802.3u 100Base-TX Fast Ethernet		
Support Hard Drive Type	:	SATA I/ II		
Drive Management	:	Four Different Hard Drive Configurations Disk Diagnostics E-mail Alerts Drive Quotas Power Management		
Device Management		Internet Explorer version 7.0 or Mozilla Firefox 3.0 and above		

Hardware					
Power Adapter	:	12V/4A			
Ethernet Port	:	1 x 10/100/1000 Gigabit Ethernet Port			
Reset button	:	Reset to factory default settings			
LED Indicators	:	Power, LAN, HDD1, HDD2, USB			

Registration



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