## User Manual TeraStation Live HS-DH-TGL/R5



# Introduction

Congratulations on your new TeraStation! Your TeraStation Live is a powerful file server that's as easy to use as a hard drive. With its straightforward configuration GUI, anyone can easily configure the TeraStation's settings. You don't even necessarily need to configure it at all; right out of the box it's ready to be plugged in and put to work. But the TeraStation remains a fast, reliable Linux-based server, with four huge hard drives that may be configured in RAID 0, RAID 1, RAID 5, or RAID 10 arrays. It also includes PCast and DLNA media servers, allowing it to stream music, movies, and pictures to a wide range of stand-alone media players. This user manual is intended to assist you in configuring your new TeraStation.

Because we're constantly updating our product, the images and text in this manual may vary slightly from the images and text displayed by your TeraStation. These changes are minor and should not affect the ease of setup adversely. As time passes, future user interfaces, updated software, and later versions of this manual may be freely available for download at our web site: *http://www.buffalotech.com*.

If you run into difficulties or need additional help, feel free to contact our technical support. Contact information for Buffalo Technology and our technical support is available on pages 81 and 82.

## Table of Contents

TeraStation Quick Setup	4
Installing Software	8
Accessing TeraStation Data from a PC	11
Accessing TeraStation Data from a Mac	15
TeraStation Layout	20
Advanced Settings	23
Network Settings	27
Hard Drive Settings	29
Adding Extra Hard Drives	
Shared Folders	40
Groups	45
Users	46
WebAccess	48
Troubleshooting Multiple Shares	
Backups	54
Maintenance Settings	64
PCast and DLNA	58
System Information	70
Client Utility	75
Troubleshooting	78
Changing Hard Drives	79
Technical Specifications	
Technical Support	85
GPL Information	

## **TeraStation Quick Setup**



Begin setting up your TeraStation by plugging your *power cable* and *Ethernet cable* into the back of the TeraStation as shown.

## **TeraStation Quick Setup**

#### **Connect your cables**



Plug the power cord into a wall socket or surge protector. Plug type and socket will differ according to country of use.



## **TeraStation Quick Setup**



Press the *power button* on the front panel. LEDs will light as your TeraStation boots up.

After your TeraStation has completed booting up, check the *LINK/ACT LED* on the front of the TeraStation. If it's lit, then your TeraStation is connected properly, and you can go on to page 8. If it's not lit, turn to page 7 for troubleshooting.



The TeraStation's Ethernet port will automatically adjust to use either a Crossover or Patch cable, so you may connect the TeraStation to your network with either type of Ethernet cable. Buffalo Technology doesn't recommend connecting the TeraStation directly to a PC.

Verify that the *LINK/ACT LED* on the front of TeraStation is lit (see page 6's picture). If it's lit, go to page 8 to continue setting up TeraStation. If the *LINK/ACT LED* is still not lit, try the suggestions below to verify that you're not suffering from common setup problems.

Having problems? Make sure that:

- the TeraStation and the router, hub or switch are both powered on,
- the Ethernet cable is securely plugged in at both ends, and
- the Ethernet cable is not damaged. Verify this by trying a different Ethernet cable.

If problems persist, you may contact Buffalo Technology's technical support. See pages 85 and 86 for technical support contact information.

Insert the TeraNavigator CD into your computer's CD-ROM drive.

On a PC, setup should automatically launch. If it does not, manually launch TSnavi.exe by pressing *Start* and selecting the *Run...* option. When the *Run* dialog opens, type **d:\TSnavi.exe** (where d is the drive letter of your CD-ROM drive). Press *OK* to continue.

If you are installing the software on a Mac, open the CD and click *TeraNavigator* to begin installation.





# **TeraNavigator Setup**



Press the Begin Installation button to begin.

If you're installing on a PC, click on *Connect this PC to TeraStation* (the green, lower button). Mac users can skip this step.

Click Next to step through the installation.



# TeraNavigator Setup



Continue pressing Next to step through the installation.

When installation is complete, you may close the installation window.



# Using your TeraStation with a Windows PC



Two new icons will be on your desktop: *Shortcut for TS-Live* and *Buffalo NAS Navigator.* 

Clicking *Shortcut for TS-Live* takes you directly to the folders on your TeraStation. *Share* is the main folder that you can put files and folders in. *Info* contains a copy of your user manual.



The *Buffalo NAS Navigator* icon opens the TeraStation's client utility. Turn to page 71 for more on using the NAS Navigator client utility.

## To Access TeraStation Data from a PC:

Your TeraStation uses "shares" (folders) to hold data. A share called "share" is already configured on your TeraStation, and you can create additional shares on page 40. To start using your TeraStation, you can either click on the *Shortcut for TS-Live* on your desktop, or you may just use *drive T* in My Computer, which setup has mapped to the default share in your TeraStation.





## Accessing TeraStation Data from your PC

You can map additional driveletters to shares on your TeraStation. From the *Start* menu, select *Run...*. Enter your TeraStation's hostname (you can get it from the NAS Navigator utility) or IP address. Press *OK*.

Your TeraStation should open. "Share" is a data folder in your TeraStation by default. "Info" contains your user manuals. If you have created other folders, they will be visible here too. You can map drive letters to any of these folders.

# Run 2 | X| Image: Type the name of a program, folder, document, or interact resource, and Vindows will open it for you. Open: [M192.850.7.82] Open: [M192.850.7.82] Image: Cancel Browse...



## Accessing TeraStation Data from your PC

From the *Tools* pull-down menu, select *Map Network Drive*. Choose a drive letter from the *Drive*: pull down menu. To specify the folder to map, either find it with *Browse* or enter **\\TS-Live\ share\_name** in the *Folder*: field, where *TeraStation\_Name* is your TeraStation's hostname and *share\_name* is the name of a folder on your TeraStation. Check the *Reconnect at logon* checkbox to have Windows connect to this mapped drive everytime it starts. When finished, press the *Finish* button. Your share is now mapped to a drive letter.



# Using your TeraStation with a Mac



After installing the TeraNavigator software, your Mac will have two new icons on the desktop.

The *Share* folder is the main folder that you can put files and folders in. *NAS Navigator* is the TeraStation's client utility.

	0.	E soon	9	_
R powerbook				1
10,4/8 10.3.7	4CBF/re	apple NAS utility	high power and Inketation offs	
10,3,9 10,4,x	*			
1.2.2 10 Units 1	kom	LSNAV1, eng. 20060612	movies	ľ
Cenktop		*	*	
Applications	Music	Picture 1	Picture 1	
Movies	*	*	*	
Pictures	Picture 1	Picture 2	Picture 6	1
		25 items, 560.83 CB available		

Clicking *Share* opens the main folder on your TeraStation. You can put files and folders in *Share* as though it were any other hard drive connected to your computer.

The *NAS Navigator* icon opens the TeraStation's client utility. See page 75 for more on using the NAS Navigator client utility.

## Accessing TeraStation Data from a Mac

You can manually add TeraStation Shares (folders) to your desktop by adding them to the Mac's server list. Begin by clicking *Go*, and then choose *Connect to Server*.





In the Server Address field, enter your TeraStation's IP address in the form *smb:// ipaddress* (where "ipaddress" is your TeraStation's IP address), and click Connect.

If you don't know your TeraStation's IP address, see page 18.

## Accessing TeraStation Data from a Mac

Select *Guest* and click on *Connect*. Note: If you have configured share permissions on your TeraStation, select *Registered User* and enter your Registered User credentials.

Select the volume that you want to mount, such as *share* or *share-mac*, from the list of folders on the TeraStation.

The share will open. A link to the shared folder will appear on your desktop.







## Accessing TeraStation Data from a Mac

If you don't know your TeraStation's IP address, there are several ways to get it.

One simple method is to use the NAS Navigator client utility (included on your CD) to find your TeraStation(s). Just click on the tab for your TeraStation and you'll be able to read its IP address. See page 75 for more on the client utility.

You can get the TeraStation's IP address from the LCD display on the front of the TeraStation as it boots up.

You can always get the TeraStation's IP address from your router's configuration utility. Many Buffalo routers list this information on the *Client Monitor* page, as shown to the right. Consult your router's documentation for instructions on identifying the TeraStation's IP address.

Host Name	TERARODIN	HDO(RADS)	6.958 ( 896,508 (9%)
Norkgroup	DT .		
IP Address	122, 1681, 7, 198		
Subnet Mask	255.255.255.0		
Firmware	1.00		
TS-1.0TGUR5			
Tera Sta	ation		



# **TeraStation Expansion**

TeraStation Live has two USB 2.0 ports on the rear. These ports can be used for adding external USB Hard Drives. TeraStation will share connected USB storage devices, allowing everyone on the network to use them. Up to two external USB hard drives may be added to TeraStation Live. To connect a USB hard drive to your TeraStation, simply plug it into one of the USB Ports.

You may plug in additional USB hard drives to either of the USB ports on your TeraStation. See page 36 for setting up your USB hard drives on the TeraStation. Page 54 shows you how to set up TeraStation to back up to a USB Hard Drive.

## **TeraStation Layout**



**Power Button** – Press and release the Power Button to turn the TeraStation on. Hold it down for three seconds to turn the TeraStation off.

**Hard Drive Access** – The Access LEDs will blink green when the associated hard drive is accessed. During startup, it's normal for all the lights to blink.

**Hard Drive Cage** – The tubular lock prevents physical access to hard drives when locked. See page 79 for information on replacing hard drives.

## **TeraStation Layout**



The **Status LCD** can be configured to display specific TeraStation information. Please see page 66 to configure the various display options.

**INIT Button** – The INIT button restores your TeraStation to factory default settings. It's located on the underside of the display, and only accessible while the door is open. See page 69 for more information on initialization.

# **TeraStation Layout**

**Power Plug** – The TeraStation Live is designed for 100-120 Volt AC power. Connecting this plug to a 220 V power supply will damage your TeraStation Live.

**10/100/1000 Mbps Ethernet Port** – Use this port to connect your TeraStation to a switch, a router, or another computer. The port is autosensing, so either a conventional Ethernet cable or a crossover Ethernet cable may be used.

**USB Ports** – TeraStation offers two USB 2.0/1.1 ports for adding external drives.



#### The Configuration GUI



TeraStation Cl	ient Utility		_ <u>_                                  </u>
TEP Browser Ma Modify IP A	anagement E TERAAND Address	DRE   TERACHRIS   TEST2	K DEVELOPMENT DLNA
Host Name	TERAANDRE	HDD(Spanning)	5.6GB ( 928/708/(0%)
Workgroup	WORKGROUP		
IP Address	192. 168. 7. 61		
Subnet Mask	255. 255. 255. 0		
Firmware	1.00		
TS-1,0TGL/R5			
Tera Sta	ation		
		I'm here	Refresh View Shares

The Configuration GUI may be accessed at any time by typing the IP address of your TeraStation into the URL bar of a browser running on a computer connected to the same network as the TeraStation. This works perfectly with OS X, Linux, and other non-Windows PCs.

You may also open the Configuration GUI from NAS Navigator by clicking on *Setup* and choosing *Configuration Settings*.

This login prompt will appear. Enter **admin** for the user name. Until you change it, the password for the admin account will be **password**. Press the *OK* button when finished.

TeraStation	>		BUFFALO
	Login		HELP
	Please enter your	user name and password.	
	User Name	admin	
	Password	••••••	
	Login		

User name: *admin* Password: *password* 

See page 47 to change your password.

If this login prompt does not appear, your DHCP server may not be functioning correctly. If DHCP is disabled, you may re-enable it, or verify

that the TeraStation's IP Address is in the same range as that of your PC.

Note: Pages 75 and 76 describe how to configure the TeraStation with a Static IP Address.

Welcome to the configuration GUI for the TeraStation! Bookmark this page in your browser so it can be easily accessed for future configuration changes. If the TeraStation's IP Address changes, you will need to recreate the link. You can also get here by typing *http://TeraStation\_Name* into a Web browser, where TeraStation\_Name is the name of your TeraStation.

You are now at *Home*. Notice that the *Home* button is lit up in yellow. You can navigate this menu by clicking on the buttons at the left of the screen. Here at "Home", you can see basic information about your TeraStation's current configuration. You may close this screen by clicking *Logout* at the bottom left, or just by closing the browser window. If you have lost your TeraStation, clicking *I'm here!* at the bottom left will cause it to beep, making it easier to find.

TeraStation	$\geq$			BUFFALD
Home	Home			HELP
Basic A Network	🍾 TeraStation Name	TS-LIVE		
Disk Management	Nodel Name	HS-DHTGL/R5 1.04		
Shared Folders	IP Address	192.168.7.65		
Group Management	🐁 Current Date and Time	2007/3/5 20:50:22		
A Print Server	HDD Space Used	RAID Array 1	0.00 GB / 695.61 GB (0.00 %)	
Disk Backup				
🞽 PCast				
11 Maintenance				
System Status				
Logout				
🚯 I'm here!				
	Copyright 2002-2007 (C) BU	FFALO INC. All Rights Rese	erved.	

#### Basic

You may modify your TeraStation's hostname and description under *Hostname Setup*. A friendly, easy-to-remember name (e.g. "TeraStation") is recommended.

Make sure that the date and time are correct in *Date and Time Setup*. To synchronize time settings with those in your computer, press *Use Local Time*. To have your system time automatically set by an NTP server, enable *NTP Server* and enter an IP Address for the NTP server (e.g. 192.43.244.18) or use the supplied default NTP server.

Ensure that both the *Display Language* and the *Windows Client Language* are set to languages that you're comfortable with.

Once desired fields have been completed, press the *Apply* button.

L	Home	Basic	HELP
	Basic		
	Network	Hostname Setup	
L	Disk Management	TeraStation Hostname	TS-UVE
	Shared Folders	TeraStation Description	TeraStation
	Group Management		
1	User Management	Date and Time Setup	
5	Print Server	Date	2007 Year 3 Month 5 Day
1	Disk Backup	T	
1	PCast	Time	20 Hours 50 Mins 47 Secs
1	Maintenance		Use Local Time
1	System Status	Time Zone	GMT-06:00 ×
		NTP Server NTP Server	C Enable @ Disable
		NTP Synchronization Frequency	Use default NTP server (ntp.jst.mfeed.ad.jp) Once a day
		Text Display Settings	
		Display Language	English Englisch 英語
		Windows Client Language	CP437 (United States, Canada)

### Network (IP Address Properties)

TeraStation	$\supset$	BUFFALO
Home	Network	HELP
🗄 Basic		
1 Network	IP Address Properties	
IP Address Properties	Automatic via DHCP	€ Enable C Disable
Workgroup / Domain	IP Address	192 168 7 65
Disk Management		
Shared Folders	Subnet Mask	255.255.255.0
Group Management	Default Gateway Address	192.168.7.1
2 User Management	Primary DNS Server Address	192 168 7 3
Print Server		102.100.10
Disk Backup	Secondary DNS Server Address	216.201.128.10
PCast		
11 Maintenance	Ethernet Frame Size Prop	erties
System Status	Ethernet Frame Size	1,518 bytes (Default)
Logout		
	Apply	
_	Coovtight 2002-2007 (C) BUFFALO	INC All Rights Reserved.

In most networks, TeraStation will get its IP Address automatically from a DHCP server. You may disable DHCP here. If DHCP is disabled and an IP Address is not set manually, it will default to 192.168.xxx.xxx with subnet mask 255.255.0.0. The TeraStation's IP Address, Subnet Mask, Default Gateway Address, and DNS Server address may all be entered manually under IP Address Properties.

*Ethernet Frame Size* may also be set manually on this page. Only use JumboFrame settings when operating in a Gigabit environment where all other clients support the same JumboFrame setting.

Click Apply after making any changes.

## Network (Workgroup/Domain)

TeraStation	$\rightarrow$	BUFFALO
Home     Bosic     Bosic     PAddress Progeriles     Wetwork	Network     Workgroup Properties     Workgroup Name     BT	HELD
Disk Management     Shared Folders     Group Management     User Management     Print Sarver     Disk Backup	wild steller in Address	
PCast PCast Maintenance System Status Logout		
_	Copyright 2002-2007 (C) BUFFALO INC: All Rights Res	erved.

To make your TeraStation a member of a workgroup, enter the workgroup name here and click *Apply*. Entering a WINS server IP address is optional.

The TeraStation Live does not support Active Directory authentication.

## **Disk Management (Drive Properties)**

This page shows the current properties of your hard drives and RAID Arrays. To change these settings, click on *RAID Setup* at left.

BUFFALL			>	aStation	2 <b>Г</b> .
HELP		aement	Disk Manad	Home	
				Basic	ŧ
		nformation	RAID Array	Network	,
	Normal	Status	RAID Anay 1	Disk Management	C.
	RAID5	RAID Mode		Drive Properties	1
	Deb 1 3 3 4	Diale Planature		ITAID Setup	Þ
				USB Settings	4
8)	729,396,352 ktytes (655.61 GB)	Total Capacity		Disk Check	1
	4,936 kbytes (0.00 GB)	Arrent Used		Disk Formet	1
	0.00 %	Percent Used		Disk Erase	1
				Shared Folders	1
	11.2	rise normat		Group Management	0
	Net Conferred	Status	RAD Anav 2	User Management	-
	the company			Print Server	-
				Disk Backup	-
		ition	Disk Informa	PCast	-
	RAD Array 1	Status	Disk 1	Mambinance	-
	WD2500JS-00NCB1	Unit Name		system status	
IB)	244,198,584 kbytes (232.89 GB)	Total Capacity		cogoo.	
	RAID Array 1	Status	Diale 2		
	W02500JS-00NCB1	Unit Name			
0)	244,198,584 kbytes (232.89 GB)	Total Capacity			
	RAID Array 1	Status	Disk 3		
	WD2500JS-00NCB1	Unit Name			
8)	244,198,584 ktrytes (232.89 GB)	Total Capacity			
	RAD Array 1	Status	Disk 4		
	WD2500.85-00NCB1	Unit Name			
IB)	244,198,584 ktryteis (232.89 GB)	Total Capacity			
		formation	SUSB Disk In		
	Not Detected	Status	USB Disk 1		
	Not Detected	Status	USB Disk 2		
8)	244, 198, 594 Hoynes (222, 89 GB) Net Detected Net Detected	Total Capacity formation Status Status output Status output Status	USB Disk In USB Disk 1 USB Disk 2 Closed photo200		

TeraStation uses *RAID* ("Redundant Array of Independent Disks") technology to control the four hard drives in your TeraStation. RAID may be configured several ways:

*RAID 0* - All four drives are combined into one large, fast drive, giving the maximum capacity for your TeraStation. This size is the one listed on your TeraStation's box and shows the total capacity of the TeraStation with no data used for redundancy. RAID Spanning is fast and efficient, but with no redundancy, if one hard drive fails, all data on the TeraStation is lost.

*RAID 1* (mirroring) - Hard drives are arranged in mirrored pairs. Each half of the pair reads and writes exactly the same data. This costs you half the total capacity of the array, but provides excellent redundancy. If a hard drive fails, the mirror continues to supply data, so you may work on normally. You may replace the damaged or defective drive at any time, and normal RAID 1 mirroring will then be automatically restored.

*RAID* 5 (parity) - All drives in a RAID 5 array reserve part of their data space for parity information, allowing all data to be recovered if a single drive fails. The parity information takes up about one hard drive's worth of space, so if you set up all four drives in the TeraStation as a RAID 5 array, your usable capacity will be about 3/4 of the total capacity of the TeraStation. This is how your TeraStation is set up out of the box.

*RAID 10* (parity) - Combines RAID 1 and RAID 0 for a fast, secure array. Half of the TeraStation's total capacity is used for redundant information.

Buffalo Technology recommends RAID 5 for its excellent balance of efficiency and security.

## Disk Management (RAID Setup)

This page shows your current RAID arrays. You may delete old arrays or create new ones by clicking on the underlined *RAID Array* # under *RAID Array Configuration*.

The *RAID Scanning Settings* set a specific time for the TeraStation to scan and inspect its RAID arrays. It is recommended to set a time where the TeraStations usage will be minimal (perhaps the middle of the night). TeraStation will be significantly slower while the RAID scan occurs. *Begin Immediate RAID Scan* specifies the TeraStation to run a RAID Scan immediately.



You may also disable *RAID Array Error Detection Response* from this page. Normally, this is set to automatically shut down the RAID array when an error is detected. Though it is not recommended, you may disable that behavior by selecting *Disable*.

NOTE: TeraStation has four internal hard drives. Before creating a new RAID array, you may have to delete one or more pre-existing RAID Arrays to clear up the hard drives for your new one. This will destroy all data currently on the disks, so back up any important data before deleting RAID arrays. Whether you want to clear out an old array or create a new one, begin by clicking on the array's underlined *RAID Array* #, under *Name*.

## Disk Management (RAID Configuration)

A configured RAID array may be deleted by pushing the *Delete RAID Array* button. This will free up all hard drives listed under Disk Structure.

You will need to enter a confirmation number from the screen before the RAID array will be deleted.



Home	Disk Management	HELP
Basic	and the second second	
Network	Please Confirm Request	
Disk Management	Enter the confirmation number below to confirm th data. This process cannot be continued without th	is operation. Confirming this operation may result in lost to confirmition number entered contectly.
Drive Properties		
RAID Setup	Confernation Number 64	4 9
USB Settings	Entry	
Disk Check		
Disk Format	Apply Cascel	
Disk Erase		
Shared Folders		
Group Management		
User Management		
Disk Backup		
Maintenance		

To configure an unconfigured array, begin by double clicking on the array you want to configure, e.g. "RAID Array 1".

Choose your RAID mode under *RAID Settings* and put checks next to the hard disks you want included in the array under *Disk Structure.* Click *Setup RAID Array* when ready. It may take several minutes to complete setting up the RAID array. When it's finished, a Disk Check will run.





## Disk Management (Disk Check)

Home	Disk Managen	nent		HELP		
Basic	RAID Setup					
Disk Management	Name	RAID Mode	Disk Structure	Capacity		
Drive Properties	RAD Array 1	RAID5	Disk 1 2 3 4	695 73 GB		
RAID Setup						
USB Settings	RAID Array 2	Not Configured				
Disk Check	Checking RAID array.					
Disk Format						
Disk Erase	RAID Array Error	r Detection Re	sponse			
Shared Folders	Automatic Shutdown	6	Enable C Disable			
Group Management						
User Management	Submit					
Disk Backup						
Maintenance						
System Status						

When RAID Configuration is done, a disk check will run automatically. This may take several hours to complete. Performance of the TeraStation will be slower than normal while the disk check is running.

## Disk Management (RAID Configuration)

TeraStation	BUFFALD
Home	• Disk Management
Basic	Configure RAID Array
Disk Management	RAID Array configuration is complete.
Drive Properties	Denvis valing una new rowa anay, weaks anarea in the <u>unineur robert areatoni</u> in una Ook.
USB Settings	
Disk Check Disk Format	Continue
Disk Erase	
Shared Folders Group Management	
User Management	
Disk Backup	
PCast	
System Status	
Logout	
	Copyright 2002-2007 (C) BUFFALO INC. All Rights Reserved.

You'll see this screen when your new RAID Array is completely configured. Click on *Shared Folders* and turn to page 40 to begin setting up shares on your TeraStation.

## Disk Management (USB Settings)

If you've plugged an external USB hard drive into one of the USB ports on your TeraStation, you may set it up from this page. Click on its name under USB Disk Setup to begin.

· · · · · · · · · · · · · · · · · · ·	Disk Manageme	HELP	
Basic			
Network	USB Disk Setup		
Disk Management	Name	Assigned Disk	Capacity
Drive Properties	TI > USB Disk 1	BUFFALO INC. USB-SATA Bridge	232.82 GB
RAID Setup	1100 01 1 0		
USB Settings	USB Disk 2	Not Assigned	
Disk Check			
Disk Format			
Disk Erase			
Shared Folders			
Group Management			
Group Management User Management			
Group Management User Management Disk Backup			
Group Management User Management Disk Backup Maintenance			
Group Management User Management Disk Backup Maintenance System Status			
#### Disk Management (USB hard drive setup)

TeraStation	$\sum_{i=1}^{n}$	BUFFALD
Home Basic	Disk Managemer USB Disk Setup	nt HELP
Disk Management	USB Disk Name	USB Diek 1
RAID Setup	s Assigned Disk	
USB Settings	Assigned Disk	BUFFALO INC. USB-SATA Bridge
Disk Check	Plater	Mounted
Disk Format	Status	Wounted
Disk Erase	Manufacturer	BUFFALO INC.
Shared Folders	Unit Name	00JS-22MHB0
Group Management	Capacity	232.89 GB
User Management		
Disk Backup	Remove USB Disk As	signment Cancel Format USB Disk
11 Maintenance		
System Status		
Logout		
	Copyright 2002-2006 (C) BU	FFALO INC. All Rights Reserved.

From here you can see your USB hard drive's setup information. If the hard drive's information isn't displayed properly, try restarting your USB hard drive and then restarting your TeraStation. Some USB hard drives must be reformatted from within TeraStation before they can be assigned shares. Press *Format USB Disk*, or choose *Disk Format* from the left-side menu, to begin reformatting your USB hard disk. Turn to page 39 for more information on reformatting disks. Turn to page 40 to set up shares on your USB hard drives.

#### Disk Management (Disk Check)



To initiate a comprehensive disk check on a hard drive or array of drives, select the hard drive or array that you want to check from the *Target* dropbox and click the *Start Disk Check* button. Performance will be slower while the disk check is running.

### Disk Management (Disk Format)

TeraStation	BUFFALL	,
Home Basic	Disk Management	
1 Network	Second Se	
Disk Management	Target RAD Array 1	
RAID Setup		
USB Settings Disk Check	Se Warning	
Disk Format	Prior to formatting, confirm that this TeraStation is not a backup target of another TeraStation. The backup process will fail if it attempts to launch while the target TeraStation is in a format process.	
Disk Erase Shared Folders	Please make sure any scheduled backups have completed.	
Group Management	Start Format Cancel	
User Management		
11 Maintenance		
System Status		
Logout		
	Copyright 2002-2006 (C) BUFFALO INC. All Rights Reserved.	

To format a hard drive or array, select it from the *Target Disk* drop box. Choose the file system desired from the *File System* dropbox (internal drives can only be formatted with XFS). Note that FAT32 has a 2 gigabyte single file size limit. If you choose FAT32 for your file system, you will not be able to store single files larger than 2 gigabytes on the drive. Use of the *XFS* or *EXT3* file systems is recommended. Press *Select Target Disk* when done.

Depending on the size of the target hard disk or array, a Disk Format may take several hours to complete. Performance will be slow during the disk format.

#### **Shared Folders**



To add new shares to your TeraStation, select *Shared Folders* from the left side menu, and then click the *Add* button.

To delete a share, select the share you'd like to delete, and press the *Delete* button. Deleting shares will remove the share and erase all of the files and folders inside that share.

#### Add a new Shared Folder

Home	Shared Folders	2HELP
Basic		
Network	Add New Shared Folde	r
Disk Management	Shared Folder Name	share
Shared Folders	Shared Folder Description	
Shared Folders Setup	Volume	RAD Anav 1 ×
Service Setup	Shared Folder Support	Windows R Arola DETP Disk Barlon
Group Management	Shared Folder Attributes	C Rand Only @ Rand / Write / E Hiddan shara(Only SMR)
User Management	Describe Bin	
Disk Backup	несусе ви	e Enable C Disable
Maintenance	File Operation Log	C Disabled
System Status	Remote Backup Password	
Logout	Offine File	Disable Offine File
	Access Restrictions	
	Access Restrictions	C Enable @ Disable
	Read / Write	Read Only All Groups / Users
	Group	S admin gost hdusers
	User	afmn geet BianAdmin

To add a new shared folder, enter a name for it in the *Shared Folder Name* box and choose which *Disk Space* it will reside in. You may also choose which operating systems and features the share will support by putting the appropriate checks next to *Shared Folder Support*, and whether the share supports the Recycle Bin by putting a selecting *Enable* or *Disable*. Enter a *Shared Folder Description* and a *Remote Backup Password* if desired. Click *Apply* to build the new shared folder.

Appletalk support is available for use with legacy Macs. Checking "Apple" by *Shared Folder Support* lets you use your TeraStation with older Macs, but gives you all of Appletalk's limitations, including a 2GB maximum filesize and a 32 character limit for filenames. For OS X 10.3.9 and later, leave "Apple" unchecked for best performance.

*Remote Backup Password* will set a password on this share for other TeraStations who want to use it as a

remote backup target. This password will not affect users attempting to access the share; it only pertains to remote TeraStations trying to access this share for backup tasks.

#### Shared Folders (Access restrictions)

	Shared Folders	<u> </u>
lasic		
letwork	Add New Shared Folder	r
isk Management	Shared Folder Name	test
hared Folders	Shared Folder Description	
hared Folders Setup	Mahamm	lauter and
rvice Setup	volume	RAD Array 1
5 Setup	Shared Folder Support	Vindows Apple FTP Disk Backup
oup Management	Shared Folder Attributes	C Read Only 🔍 Read / Write / 📑 Hidden Share(SMB Only
er Management	Recucla Rin	C Eachla C Disable
Backup	receptor Dill	e chave v prove
ntenance	File Operation Log	C Enabled C Disabled
em Status	Remote Backup Password	
out	Office Files	
	Access Restrictions	@ Enable C Disable
	Read / Write	Read Only All Groups / Users
	Group admin	
	User	robin          admin         guild in the second sec

To use *Access Restrictions* for a share, select *Enable*.

Highlight groups or users in the *All Groups/ Users* column and use the left-pointing arrow buttons (located just to the left of each box) to move individual groups or users from the *All Groups/Users* column to the *Read Only* box (if you want to give them read access only) or all the way to the *Writable* box, if you want to give them full access to the share. Right-pointing arrows will move highlighted users or groups back to the right.

Click *Apply* when you have your groups and users in the appropriate boxes.

To set up new groups and users, see pages 45 and 46.

#### Shared Folders (Service Setup)

TeraStation	>		BUFFALO
Home	Shared Folders		HELP
Basic	Network Sharing Serv	ices	
Disk Management	AppleTalk Protocol	€ Enable C Disable	
Shared Folders	FTP Server	C Enable @ Disable	
Shared Folders Setup			
DFS Setup	Apply		
Group Management			
2 User Management			
S Print Server			
Disk Backup			
PCast			
System Status			
Logout			
	Oversight 0000,0007 (O) DUPP	ALC NO. ALC DESC. Descend	

To allow FTP Access to TeraStation, choose *Enable* for *FTP Server*. To enable legacy AppleTalk support, choose *Enable* for *AppleTalk Protocol*.

**FTP Server Info:** Enabling the FTP Server will allow users to connect to shares via FTP protocol. Their username and password is used for their login credentials, and they will only have access to shares that have read-only or writeable access to on the TeraStation. The network administrator of your network may need to enable traffic on port 21 to the TeraStation for FTP to work over the Internet.

Click the *Apply* button to set up these services.

#### Shared Folders (DFS Setup)



To allow Distributed File System (DFS) technologies for Windows Server 2003 R2, select *Enable* and click the *Apply* button.

#### **Group Management**

TeraStation		BUFFALO
Home Basic	Group Management	HELP
Network Disk Management	Group Name	
Shared Folders	admin	Group Description
User Management	guest	Detaut Administrator Group
Disk Backup	hdusers	Default Guest Group
PCast Maintenance	and month	Dafault System Group
System Status	Add Delote	
_	Copyright 2052-2007 (C) BUFFALO INC. All Rights Reserved.	

Add a name and a description to the *Add New Group* fields. Put checks next to each *Member User* that you want to be part of the group. Click *Apply* when your group is set up the way you want it.

Active Directory and Domain Groups are not shown here but are available under Share Management.

Members can be added or removed from a group at any time by editing the group. This is done by clicking on the Group name on the main Group Settings page.

Groups allow for easier management of permissions in some networks, specifically networks with a lot of users in different departments.

To *Delete* a group, put a check next to its name and click *Delete*. To add a group to your TeraStation, click *Add*.

lome	Group Management	L HE
lasic	Add New Group	
isk Management	Group Name	
hared Folders	Group Description	
roup Management	crath percentage	
ser Management		
isk Backup	Sector Member Users	
laintenance	<ul> <li>User Name</li> </ul>	
ystem Status	admin	User Description
ogout		Built-in account for administering the system
	guest	
		Built-in account for guest access to the system
	robin	
		me

#### **User Management**

TeraStation		UFFALO
Home Basic	User Management     Local User Settings	HELP
Disk Management	User Name	
Shared Folders	Use Use	ur Description
Group Management	Built-in account for administerin	ng the system
User Management	guest	
Disk Backup	Built-In account for guest access	to the system
PCast	E EE test	
FII System Status		
Logout	Add Local User Delete Local User	
_	Copyright 2002-2007 (C) BUFFALO INC. All Rights Reserved.	

The *Add New User* dialog will appear. Enter a *User Name, Password,* and *User Description* for the new user and click the *Apply* button. If a user will be accessing the TeraStation from a Windows 95/98 computer, their password should be 15 characters or less. Mac OS 8 and OS 9 users's passwords should be 9 characters or less.

TeraStation is preconfigured with two users, *admin* and *guest*, out of the box. The *admin* and *guest* user accounts cannot be deleted. To delete any other user, put a check next to their name and click *Delete*. To add a new user, click *Add Local User*.

Te	raStation		DUFFALO
	Home Basic Network Disk Management Shared Folders Group Management User Management	User Management     Add Load User     User Name     Passed     Confine Passed	
71 71 111	Disk Backup Maintenance System Status Logout	User Description Apply Cancel Cancel Copylight 2000 2006 (C) BLRFALD BIC: All Highls Reserved	

#### User Management (changing passwords)

	$\supset$	BUFFALD
Home Basic	User Management Local User Settings	HELP
Disk Management	User Name	
Shared Folders	T12 admin	User Description
Group Management	Built-in accor	unt for administering the system
2 User Management	guest	
S Print Server	Built-in account	t for guest access to the system
Disk Backup	administrator	
PCast Maintenance	🖸 📊 🔁 test	
System Status		
	Add Local User Delete Local User	
	Copyright 2002-2007 (C) BUFFALO INC: All Rights Reserved.	

To change an account's password, click on the name of the account under *User Settings*. Note: if a user name and password are used to log into a user's windows computer or domain, the same user name and password should be used when creating the user's account on the TeraStation, or problems accessing shared folders may occur.

Enter the desired new password in both boxes and click *Apply*.

	$\supset$		BUFFALO
Home	User Management		HELP
Basic			
1 Network	- Edit Local User		
Disk Management	User Name	robin	
Shared Folders	Password		
Group Management			
2 User Management	Confirm Password	•••••	
Disk Backup	User Description	me	
11 Maintenance			
System Status	And Donal		
Logout	Apply Cancel		
	Copyright 2002-2006 (C) BUFFi	4L0 INC: All Rights Reserved.	

### WebAccess

With Buffalo's WebAccess, you can access your TeraStation from anywhere in the world with an Internet connection. It's easy to access your files, or share them with other people, wherever they may be.

Home	Web Access	HEL
Basic		
Network	Web Access Services	
Disk Management	Web Access Service	C Enable C Disable
Shared Folders	HTTPS/SSL Encryption	C Enable @ Disable
Group Management	Use BuffaloNAS.com	G Easthle C Dirable
User Management		to Linke to Dianne
Print Server	BuffaloNAS.com Name	test
Web Access	BuffaloNAS.com Key	password123
Folders Setup	DNC Manhanna	
Service Setup	DN3 Hostname	
Disk Backup	Auto-Configure Firewall (UPnP)	C Enable C Disable
PCast	External Port	
Maintenance		
System Status	5 Warning	
Logout		
	Only the English alphabet is sup	ported for use in folder and file names.

WebAccess is set up from within the Configuration GUI. First, select 'Web Access', and then 'Service Setup' from the menu on the left.

To use WebAccess, set 'Web Access Service' to *Enable*.

You may enable SSL Encryption if desired.

Using 'BuffaloNAS.com' is recommended. Otherwise, you'll have to manage your own DNS settings.

'Auto-Configure Firewall' is also recommended if your router supports UPnP (most do since 2001).

If you choose not to enable this, you must manually configure your router and firewall to forward internal port 9000 to the Internet.

Choose a name for your BuffaloNAS account and a password ("key"). This name is the name that will be used to access your TeraStation and to share with your friends. The password for this protects other people from using it, so picking a strong password is recommended.

Click *Help* in the top right of the window for detailed information on each setting.

# **Configuring WebAccess**





Select 'Folders Setup' in the left-side menu. Any shares on your TeraStation will appear on the list to the right. Click on the **measure** icon beside it to select a share for web access.

Choose your desired level of Web Access from the 'Web Access Settings' dropbox:

Disable' will prevent remote access to this share through WebAccess. This is the default setting.

'Allow Anonymous' will allow *anyone* to access the share. Don't use this setting unless you want your TeraStation share to be available publicly to everyone in the world!

'Allow All Groups/Users' will allow only people who have an account on the TeraStation to access this share remotely.

'Use Inherited Folder Permissions' will allow people with an account on the TeraStation to access the share remotely only if they have read permissions on the specific share that they're accessing.

Consult your user manual for more information on setting up groups, users, and permissions on the TeraStation.

Click the *Apply* button to save your changes.

# Using WebAccess

To access your TeraStation remotely, open a browser window on any computer connected to the Internet and go to *buffalonas.com*.

In the dialog box, type the BuffaloNAS name that you set on page 48.

Alternately, you can go directly to your share by typing *BuffaloNAS.com/your\_BuffaloNAS\_name* in the URL window.

The folders from your TeraStation's share will appear. Files from anonymous shares will appear to the right. To see files from shares that are not set to anonymous, you will need to *log in.* The 'login' link is on the top left corner of the page.

BUFFALO	Web Access
	Enser Your LinkStation or TersBattion Name: Jestra]
	Conved



### **Using WebAccess**

login	LinkStation™ Web	Access
CKComputer     Paul_MCartney     The_Bends     The_White_Album	Arber, Sold as:           Occurster as:           Print, Price Term, Bending as:           Trie, Uniting, Jakon age:	Trans Ster Falder Falder Falder Falder Falder
hudia		version

To access individual folders on the right, click on their *open* links.

Clicking on individual files will give you other options, depending on the filetype. Clicking on the *Audio* link at the bottom left corner of the page will give you options for playing music files, including the opportunity to launch a Flash-based music player that will stream your audio files directly through the Web interface.

music	Name	Type	Size	
Abbey_Road	3 The Beatles-The Beatles (The White Album) (disc 1)-01-Back in the U.S.S.Rmp3 2000	Audio	4.0M	
CKComputer	Link to this file Additions willow audion Mail Inic to this File			
The_Bends	3 The Beatles-The Beatles (The White Album) (disc 1)-02-Dear Prudence.mp3 game	Audio	5.6M	
I ne_white_Album	3 The Beatles-The Beatles (The White Album) (disc 1)-03-Glass Onion.mp3 mm	Audio	3.2M	
	[3] The Beatles-The Beatles (The White Album) (disc 1)-04-0b-La-Di, Ob-La-Da.mp3 com	Audio	4.7M	
	3 The Beatles The Beatles (The White Album) (disc 1)-05-Wild Honey Pie.mp3 mm	Audio	1.3M	
	[3] The Beatles-The Beatles (The White Album) (disc 1)-06-The Continuing Story of Bungalow Bill.mp3 and	Audio	4.7M	
	The Beatles The Beatles (The White Album) (disc 1)-07-While Mv Guitar Gently Weeps.mo3 com	Audio	6.6M	201

#### **Troubleshooting Multiple Shares**



When accessing multiple shares to a Windows PC, you may see this error message.

This is caused by having multiple shares to the same resource using different login credentials.

The error occurs when connecting to at least one secure, restricted share. Due to a constraint in Microsoft Windows, only one set of login credentials can access or map drive letters for a network resource such as the TeraStation. As such, only one username and password can be used while mapping drives to a PC. If unsecure, unrestricted shares are mapped and then an attempt to map a secure, restricted share is made from the same PC, then this error will occur. To prevent this, you must create all mapped shares using the same login and password information. Please follow the steps on the next page to remedy this problem.

#### **Mapping Multiple Shares**

Map Network Drive	Windows and assig access th Specify th that you	Can help you connect to a shared network folder na drive letter to the connection so that you can e folder using My Computer. He drive letter for the connection and the folder want to connect to:
	Drive: Folder:	Z: Browse Example: \berver'share Tornect at logon Connect using a <u>different user name</u> . Sonue for online storage or connect to a network server.
		< Back Finish Cancel

When mapping any share, select the *Connect using a different user name* option. A login and password prompt will appear. Use the username and password required by any secure, restricted shares for *all* shares. All mapped shares on a single PC must use the same username and password!

Connect As	×
By default, you w BT\robinb. To cor and password be	ll connect to the network folder as nect as another user, enter their user name ow.
User name:	Browse
Password:	•••••
	OK Cancel

If only unrestricted shares are being mapped, then it's not necessary to set a username and password for shares. Multiple mapped drives to unrestricted shares can exist without a username or password as long as no restricted, secure shares are mapped. If an unrestricted share and a restricted share are being mapper or accessed, use the restricted username and password for the unrestricted share login by using the *Connect using a different user name* option. This will allow a Windows PC to access both shares without any problems.

#### Disk Backup

Home	Disk Backu	ıp		?HELP
Network	Disk Backur	D		
Disk Management	Job Number	Schedule	Status	
Shared Folders	COR IN I		Not Constant	
Group Management	500 T		NOT CREEKE	
User Management	Ti 2 Job 2		Not Created	
Disk Backup	71 2 Job 3		Not Created	
Disk Backup	TI 2 Job 4		Not Created	
Tera Station List	11 S Job 5		Not Created	
Add TeraStation	100 Intel		Not Constant	
PCast	100 G		redt Greated	
Maintenance	71 3 Job 7		Not Created	
Logout	8 dol 🤇 📊		Not Created	
	search for a	a Backup De	stination by Password	
	Password to Se	earch		
	Apply			
	Copyright 2002-2	2006 (C) BUFFAL	0 INC. All Rights Reserved.	

To create a backup job, click on a *Job Number*. The *Edit Backup Job* dialog will appear.

#### Disk Backup (Edit Backup Job)

Home		Disk Backup	HELP
Basic			
Network		Edit Backup Job	
Disk Man	gement	Job Number	Job 1
Shared F	Iders	Backup Job Schedule	C Not Scheduled C Immediately C Every day C Every week
Group Ma	agement	Backup Date	Saturday
User Man	gement		(on a constant)
Disk Back	4P	backup Time	Hour 00 Minute
Disk Back	P	Backup Operation Mode	Normal Backup
Terastabo	List	Backup Options	Create a Folder Inside of the Backup Target
Maintena			Use Encryption
System S	atus		
Logout			Use Compression
			Create a Backup Log File
			Ignore Errors and Proceed with Future Backups
		Apply Cancel ClearJob	ation Folders
		Local Backup Shared Fold	er Destination Backup Shared Folder
		Choose a source and destination f	older for backup and click Select
			TS-HTGL006@usbdisk1
		Select Remove	

A *Backup Job* can run regularly on a daily or weekly schedule, or immediately by appropriate choices in the *Backup Job Schedule* field. *Date* and *Time* for the backup may be entered, and *Encryption* and *Compression* enabled or disabled. Enable *Overwrite Backup* to have each scheduled backup write over the previous backup, or *Differential Backups* to backup only files changed since the previous backup.

Select the folder to be backed up from the *Local Backup Shared Folder* dropbox, and the destination for the backup files from the *Destination Backup Shared Folder* dropbox. The destination folder may be on a USB drive attached to the TeraStation, or another TeraStation on the network. Click on *Select* to approve the backup targets.

Click the *Apply* button when your backup job is set up the way you want it, or *Clear Job* to stop a job from running again.

#### Disk Backup (TeraStation List)

10	Disk Backup			
ic				
vork	TeraStation List			
lanagement	Name	IP Address	Backup Support	Disk Sleep
i Folders	TS-LIVE	192,168,7,65	Supported	Not Configured
Management				
anagement	ERNY-LS	192.168.7.105	Supported	Not Configured
erver	LS-GL122	<u>192.168.7.37</u>	Supported	Not Configured
ackup	DEVELOPMENT	192 168 7.25	Supported	Not Configured
ckup				
tion List	ANDRELIVE	192.168.7.193	Supported	Not Configured
raStation				
	Refresh			
nance				
Status				

The TeraStation list shows other TeraStations in your network that you can configure network backups to.

Press *Refresh* to get a list of TeraStations on your network.

#### Disk Backup (Add TeraStation)



To add a remote TeraStation to your network, enter its numerical IP Address in the *Remote TeraStation IP Address* field and click the *Add to List* button. For remote TeraStation backups, make sure both firewalls are configured to allow traffic in and out of their networks.

Note: Disk Backups between two TeraStations use port 8873 for encrypted backups and port 873 for backups with no encryption.

**PCast** 

PCast and DLNA are special services that can run within TeraStation, allowing it to be a media server for LinkTheater or other digital multimedia players. The LinkTheater product is a media server that connects to your television and streams multimedia content. The PCast service allows you to stream any multimedia content directly from your TeraStation Live to the LinkTheater DLNA is an industry standard supported by many digital multimedia players.



If you do not own a multimedia player, PCast and DLNA settings may be ignored.

For more information on LinkTheater, please visit Buffalo Technology's web site at **www.buffalotech**. **com** and look under Multimedia Products.

### PCast Settings - LinkTheater

🕏 PCast and DLNA Media	Server Settings	
Media Servers @	• Enable C Disable	
Media Folder 🕜	media	-
PCast Password 🕢	Enable C Disable	
Enter Password 🕢	*	
Confirm Password @	x	
Limit DLNA Client Access @	C Enable Choose Devices	
Update Media List 🕜	Refresh	
	App	ły

**Media Server Function:** The *Media Server Function* will need to be enabled for this function to work. If you do not own a LinkTheater than disabling this feature is recommended.

**Media Folder:** The *Media Folder* specifies which shared folder to share with LinkTheater. All of the multimedia files inside this shared folder will be available to LinkTheater. **NOTE:** At this time, only one shared folder can be accessed with LinkTheater. Please make sure that all of the multimedia files you wish to share with LinkTheater are in this shared folder.

PCast Password: Restrict access to your media

server by specifying an access password.

**Limit DLNA Client Access:** Choose what devices can access your media server. See next page for more information on configuration.

**Update Media List**: This updates the list of multimedia folders and files displayed by your media player. Some changes may not be shown until the list is refreshed or the media player rebooted.

#### PCast Settings - LinkTheater

BUFFALO				
%	Access Limitation of	of DLNA Client		
DL	NA client that permits ac	cess 🕜		
	MAC Address	IP Address	Device Name	
	Acci	ess from all DLNA client is pro	hibited	
De	eny Access Select All	Clear All		
C.	and at DI NA aliant @			
Se	earch of DLINA client 🥹			
	MAC Address	IP Address	Device Name	
	00:13:D3:13:65:0F	192.168.7.102	TECHWRITER02: Windows Media Connect	
	00:80:87:44:BC:D9	(Not detected)	OL44BCD9	
	00:11:25:B0:2D:00	(Not detected)	(Not detected)	
	00:11:09:D8:DA:DB	192.168.7.45	(Not detected)	
	00:0D:0B:36:DC:68	(Not detected)	(Not detected)	
	00:0D:60:78:76:A6	(Not detected)	(Not detected)	
	00:07:40:BA:5E:52	(Not detected)	(Not detected)	
	00:0B:DB:91:D0:A5	(Not detected)	(Not detected)	
	08:00:46:BF:9C:AF	(Not detected)	(Not detected)	
All	ow access Select All	Clear All		
			Apply Cancel	
			Apply Cancel	

Get to this page by clicking *Choose Devices* on the previous page.

**Search for DLNA Client:** This will show a list of all clients that could connect to the media server. For any that you want to have access, put a checkmark next to their MAC address and click *Allow Access*. You can deny access to any DLNA client by checking it and clicking *Deny Access*.

B RCast and DI NA	Media Copyer Settinge
Media Servers @	
Media Folder 🕑	share □ USB Disk
PCast Password @	C Enable @ Disable
Enter Password @	
Confirm Password @	
Limit DLNA Client Acco	C Enable @ Disable Choose Devices
Update Media List 🥹	Retesh

Your TeraStation may be used as a music server for computers running iTunes. As long as PCast's *Media Servers* function is enabled, the *Media Folder* ("Share" by default) will appear in iTunes on computers on the same subnet.

AARY MARK Mores TV Shows Froducts	All Default of the previous angle All Contrast of the previous angle All Contrast of Black B Defnerry Texon B Tolenay Texon B Tolenay Texon	In a follow to down Reserve 0 Texes Action 4:14 ACDC 2:48 Enew Cartler & Tracy Gramme	Ver D	Games Rock
nary Mask Moves TV Shave Frodues	450 Name # Sack In Black # Ordinary Town # Titless Co.	Time Add 414 ADC 248 Des Order & Tracy Grants	A Aburn	Genre Rock
AARY Music Moves TV Shews Fodcasts	Matter H Back Is Black H Orderary Town H Tillman Co	Read Artist 4:14 ACDC 2:48 Deve Carter & Tracy Granes	a Aburn	Genre Rock
Muss Moves TV Shavs Focusts	W Bock In Block W Ordenary Town	4:14 ACDC 2:48 Dave Carter & Tracy Grammy	and the second sec	Rock
Movies TV Shows Fodcasts	# Ordeary Tawn	2:48 Dave Carter & Tracy Gramm	the second shad the shades	
Try Shows Podcasts	of Tillman Co.			Felk
Podcasta	a second contract of the second contract of t	3:26 Dave Carter & Tracy Gramm	er Drum Hat Buddha	Felk
Podcasta	W Disspearing Man	2:49 Dave Carter & Tracy Gramm	er Drum Het Buddhe	Fek
	M The Power and Clory	2.43 Dave Carter & Tracy Gramm	er Drum Het Buddhe	Pelk
Audiobooks	# 236-6132	3:04 Dave Carter & Tracy Gramm	er brum Hat Buddha	Folk
Fod Games	# 41 Thunderer	5:03 Dave Carter & Tracy Gramm	er Drum Hat Buddhe	Fek.
Red a	W Certife Arms of Eden	2:03 Dave Carter & Tracy Gramm	er Drum Hat Buddha	Felk
	H I Go Like the Raven	3:35 Dave Carter & Tracy Gramm	er Drum Hat Buddha	Folk
	M Highway 80	2:23 Dave Carter & Tracy Gramm	er Drum Hat Buddha	Felk
illunes Store	W Love, the Mapcan	4:18 Dave Carter & Tracy Gramm	er Drum Hat Buddha	Fek
Shopping Cert	# Merlin's Lament	3:35 Deve Carlier & Tracy Grammy	er Drum Het Buddhe	Pelk
	it Certife Solder of My Soul	3:28 Dave Carter & Tracy Gramm	er Drum Het Buddha	Felk
	# Happutown (All Right With Mic)	2:34 Dave Carter and Tracy Gram	mer Tanglewood Tree	Country
IN DESITION DAMAGE OF	M Tanglewood Tree	3.42 Dave Carter and Tracy Gram	mer Tanglewood Tree	Country
2415	# The Mountain	3:39 Deve Carter and Tracy Gram	mer Tanglewood Yree	Country
Party Shuffe	ill Farewell to Saint Dolores	4:29 Dave Carter and Tracy Gram	mer Tanglewood Tree	Country
Bill's Munic	# Hey Conductor	2:20 Dave Carbor and Tracy Gram	mer Tanglewood Tree	Country
	# Crocodie Man	3:02 Deve Center and Tracy Gram	mer Tanglewood Tree	Country
Plan. Visitori	of station' Away From Caroline	5:09 Dave Carbor and Trace Gram	mer Tanglewood Tree	Country
My Top Rated	# Farewell to Fiddler's Rm	2:12 Dave Carter and Tracy Gram	mer Tanglewood Tree	Country
Recently Added	of Cat-type Willie Claims His Lo	4.06 Dave Carter and Tracy Gram	mer Tanglewood Tree	Country
Recently Pleved	# Cawboy Singer	2:44 Dave Carbor and Tracy Gram	mer Tanglewood Tree	Country
Top 21 Most Played	of Farewell to Differroot Valley	2:37 Deve Carter and Trace Gram	mer Tanglewood Tree	Country
	Witten I Go	4.16 Dave Carbor with Trace Gran	mer mhenice	Felk
	# Don't Tread On He	3:23 Dave Carbor with Tracy Gram	mer When 1 Go	Fek
	If Anna's Lover	2.52 Dave Carter with Trace Gran	mer When I Co	FeB.
	# Grand Prairie Tx Homeock 8	2:22 Dave Carbor with Track Gran	mer when I Ge	Felt
	If take And The Cheel Of Leel	6.24 Date Carter with Trans Gran	mer When I Ga	740
	of The Row, Where She Sleeps	4:20 Dave Carbor with Track Gran	mer mhesilde	Felk
	W Langelot	4-64 Dave Center with Trace Gran	mar When I Co.	Erik.
	of Prant To Valentino	3.09 Dave Carbor with Track Grant	mer thesice	748
	of Little Little Jane	5:08 Dave Carbor with Trace Gran	mer mhen 1 Gp	Fek
	and the second	4.47 Date Carbo with Totals Com	man million 1/2	Cold.

All music files in the *Media Folder* will be visible from within iTunes 7 or later. Music files stored in this folder will be playable from up to 5 computers on the network.

#### Using your TeraStation with iTunes

an or an	211 C C C C C C C C C C C C C C C C C C	Image: Addition         Image: Addition           2:34         Addition         Theory Grammer           3:36         Addition         Theory Grammer	Affant Orum Het Buddhe Drum Het Buddhe Drum Het Buddhe Drum Het Buddhe Drum Het Buddhe Drum Het Buddhe	Rock Rock Fait Fait
An of a set of the set	Item           III (b.1)         III (b.1)           III (b.1)         III (b.1)           III (b.1)         III (b.1)           III (b.1)         III (b.1)           III (b.1)         IIII (b.1)           III (b.1)         IIIII (b.1)           III (b.1)         IIIII (b.1)           III (b.1)         IIIIIII (b.1)           III (b.1)         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Teen Arteit 4:34 AGE 2:46 Dev Cettr & Tracy Grammer 3:46 Dev Cettr & Tracy Grammer 3:36 Dev Cettr & Tracy Grammer 3:37 Dev Cettr & Tracy Grammer 3:38 Dev Cettr & Tracy Grammer 3:39 Dev Cettr & Tracy Grammer	Orum Het Buddhe Drum Het Buddhe Drum Het Buddhe Drum Het Buddhe Drum Het Buddhe Drum Het Buddhe Drum Het Buddhe	Rock Folk Fulk
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ts ity Shuffie In Music		3.42 Deve Certer and Tracy Grammer	Tanglewood Tree	Country
The Music	# The Mountain	3:39 Beve Carter and Trocy Grammer	Tanglewood Tree	Country
	W Ney Conductor	3:30 Bave Carter and Trocy Grammer	Tanglewood Tree	Country
usic Videos	# Crocodie Man	3.82 Bave Carter and Tracy Grammer	Tanglewood Tree	Country
Top Rated	W Walker' Away from Careline	5:09 Save Carlier and Tracy Grammer	Tanglewood Tree	Country
scently Added	If Cat-Eye Willie Claims His La	4.06 Dave Carter and Tracy Grammer	Tanglewood Tree	Country
icently Played	# Coubey Singer	3:44 Bave Carter and Tracy Grammer	Tanglewood Tree	Country
ip 25 Mint Played	M Farevell to Bitterroot Velay	2137 dave Cartar and Tracy Grammar	Tanglevisod Tree	COUNTY
ark1	# Don't Tread On Me	3/23 dave Carter with Tracy Grammer	When 1 Go	Falk
	W Annie's Lever	2:52 Deve Center with Tracy Grammer	When I Go	Feb
	# Grand Prairie Tx Homeock 8	3:23 dave Carter with Tracy Grammer 4:24 dave Carter with Tracy Grammer	When 1 Go	Falk
	# The River, Where She Sleepe	4:20 Beve Center with Tracy Grammer	When 1 Go	Falk
	W Lancelot	4.44 Dave Carter with Tracy Grammer	When I Go	Falk
	# Frank To Valentino # 1 Pfe 1 m Jane	3:09 Seve Center with Tracy Grammer S106 Asia Center with Tracy Grammer	When I Co When I Co	Feb
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Places files in	to album and artist folders, a	nd names the files based on		
Copy files b	o iTunes Music folder whe	n adding to library		
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You can configure iTunes to store all of your music on the TeraStation if desired. To do so, select *Edit* and then *Preferences*.

On the *Advanced* tab, to change the iTunes Music folder, click *Change*.

#### Using your TeraStation with iTunes



Browse to the media folder on your TeraStation (by default, the media folder is //*TS-Live/share*). Click *OK*, and then *OK* again.

? ×

.

ITunes will now save all music to the media folder on the TeraStation.

### Maintenance (Notification)

lome	Maintenance	HEL
lasic		
letwork	Mail Notification	
Nsk Management	Mail Notification	C Enable @ Disable
hared Folders	SMTP Server Address	
iroup Management		
ser Management	Subject	TeraStation Status Report Default
rint Server	Recipient Mail Address 1	
isk Backup	Recipient Mail Address 2	
Cast		
aintenance	Recipient Mail Address 3	
all Notification	Recipient Mail Address 4	
ert Setup	Recipient Mail Address 5	
atus LCD Panel Setup		
slog Transfer	Notification Trigger	HDD Status Report
nutdown		R System Alert
itialization		Direk Evilian
ystem Status		BE CONCENTRATION
ogout		Fan Failure
		Completed Backups
	HDD Status Sending Time	
	nob close centry inte	V IN 6 CIOCK

If your TeraStation is remotely managed, you may choose to receive nightly status reports and be notified of any disk events by email. To set this up, enable *Mail Notification* and enter the IP Address of your SMTP server\* in the *SMTP Server Address* field. Select a *Subject* line for the emails (i.e. "TeraStation Status Report") and enter the email address of each person you want to receive notification emails into a *Recipient Mail Address* field.

\* SMTP server must be an *open* type server. Currently, there's no provision for entering a username or password.

#### Maintenance (Alert Settings)

	Maintenance		HELP
Basic	a Alext Orange d Orange		
Network	Alert Sound Setup		
Disk Management	Alert Conditions	Exceeding Temperature	
Shared Folders		Disk Error has Occurred	
Group Management			
User Management		Pan Error has Occurred	
Print Server			
Disk Backup	Apply		
PCast			
Maintenance			
Mail Notification			
Alert Setup			
Status LCD Panel Setup			
Syslog Transfer			
Syslog Transfer Shutdown			
Syslog Transfer Shutdown Initialization			
Syslog Transfer Shutdown Initialization System Status			

Alerts can be configured on the TeraStation to make audible noises when a problem is detected. Along with the audible noise, alert emails will be sent out if *Mail Notification* was properly configured. Please select the features you would like to receive an audible sound alert from and then press the *Apply* button.

### Maintenance (Status LCD)

Home	Maintenance	HELP
Basic		
Network	Status LCD Setup	
Disk Management	LCD Display Items	R Host Name / IP Address
Shared Folders		HDD Usage Amount
Group Management		E Disk Made
User Management		P Disk wode
Print Server		R Time
Disk Backup	Flip Display Items	C Disable
PCast	LCD Back Light Setting	Die Dere er O.1. O.2. O.1. O.5 an Die He
Maintenance	coo back cigit octaing	bindowics 01020304 05220100
Mail Notification	LED Settings	
Alert Setup	LED	Dimension C 1 C 2 C 2 C 1 C 1 C 1 C 1
Status LCD Panel Setup	220	DHIMMISS 01 02 03 04 05 22 DIGRA
Syslog Transfer	LED Synchronization	C Enable  C Disable
Shutdown	LED (Sleep)	Dimmer << @ 1 @ 2 @ 3 @ 4 >> Brighter
Initialization	LED Wakeun Time	
System Status	and transpirms	15 M O'CIBER
Logout	LED Sleep Time	18 O'Clock

The Status LCD Setup allows configuration for the LCD display on the front of TeraStation. Please select the type of information that the front panel should display from the LCD Display Items. Automatically Switch LCD Items tells the TeraStation to cycle through the selected display items every 10 seconds. Disabling this feature means the LCD display does not cycle, and it will stay on the same display item until the Display button on the front of TeraStation is pressed. The LCD screen and green LED buttons brightness can be controlled via their respective settings. Press the Apply button once all of the settings have been configured.

### Maintenance (Syslog Transfer)

TeraStation	>		BUFFALO
Home	Maintenance		HELP
Basic Network	Syslog Transfer		
Disk Management	Syslog Transfer	C Enable C Disable	
Shared Folders	Syslog Server IP Address		
Group Management	Los Information	E Sustan Las	
User Management	Log mormation	III System Log	
Print Server		File Log (SMB)	
Disk Backup			
PCast	Apply		
1 Maintenance			
Mail Notification			
Alert Setup			
Status LCD Panel Setup			
Syslog Transfer			
Shutdown			
Initialization			
System Status			
Logout			
_	Copyright 2002-2007 (C) BUFFAL	O INC. All Rights Reserved.	

Check *Enable* to allow system logs to be transferred. Press *Apply* once all of the settings have been configured.

#### Maintenance (Shutdown)

TeraStation	BUFFALO
Home	Maintenance
Basic	5 Shutdown
Disk Management	Shutdown the TeraStation Shutdown Now
Shared Folders	Restart the TeraStation Restart Now
User Management	
Print Server	
Disk Backup PCast	
1 Maintenance	
Mail Notification	
Status LCD Panel Setup	
Syslog Transfer	
Initialization	
FII System Status	
Logout	
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From the *Shutdown* page, press *Apply* to shutdown TeraStation. This has the same function as holding down the power button on the front of TeraStation, but may be done remotely. Turning on the TeraStation after a shutdown requires a physical button push on the front of TeraStation. The *Restart Now* button simply reboots the TeraStation, bringing it back to functionality after about 120 seconds.

#### Maintenance (Initialization)

Initialization is a reset procedure that restores all settings back to the default, out of box, configuration. All configuration, users, groups, and backup jobs are lost, but actual data and shares on the hard are NOT lost. If you want all data to be erased, reformat the drive.

Specify whether the TeraStation shall keep its administrator password after a initialization or whether the password should be reset to the default password (default password is *password*). Press the *Apply* button once you make the selection.



Press the *Restore* button to begin the initialization process; this will restore all settings to factory defaults but will NOT erase the data on the hard drives.

# System Status (System Information)

Home	System Status	HELP
Basic		
Network	System Information	
Disk Management	TeraStation Name	TS-LIVE
Shared Folders	TeraStation Description	TeraStation
Group Management		
User Management	Model Name	HS-DHTGL/R5
Print Server	Firmware Version	1.04
Disk Backup	Current Date and Time	2007/3/5 20:57:55
PCast	Time Zone	GMT-06-00
Maintenance	THIC LONG	011100.00
System Status	Windows Network Workgroup Name	BT
System Information	AppleTalk Function	Enabled
USB Details	Apple Charge Mathematic Zong, Cattinger	
Drive Properties	AppleShale Network Zone Settings	
Network Information	FTP Server Function	Disabled
Log Information	NTP Function	Disabled
Logout	Email Alert Notification	Disabled
	Eas Status	Normal (1020 DDM)

This page shows you the System Information for your TeraStation.

Firmware updates are occasionally available from *www.buffalotech.com* for the TeraStation Live. These must be executed from a Windows PC on the same network. Your router, switch, or hub should pass through ports 8873 and 22939 for this to work (most do).

#### System Status (USB Details)



This page shows you details on USB hard drives plugged into your TeraStation.

#### System Status (Drive Properties)

This page shows you the properties of all hard drives and RAID arrays in and attached to your TeraStation.

System S	tatus	HEL
DAID 4	to for an address	
* KAID Arra	yinformation	
nagement RAID Array 1	Status	Normal
Iders	RAID Mode	RAIDS
sgement	Disk Structure	Diak 1, 2, 3, 4
nen	Total Capacity	723.396.352 kbytes (695.61 GB)
	Amount David	4 235 (4) (2) (2) (2) (2)
	Amount Osad	4,536 Keyless (0.00 GB)
	Percent Used	0.00 %
15	File Format	3/FS
mation		
RAID Array 2	Status	Not Configured
•		
rmation Solution	mation	
Disk 1	Status	RAID Array 1
	Unit Name	WD2500JS-00NCB1
	Total Canacity	244 198 584 khodan (232 89 GR)
	tone objectly	Les, restore registe (called co)
Disk 2	Status	RAID Array 1
	Unit Name	WD250DJS-00NCB1
	7.10	
	Total Capacity	244,196,064 KByles (232.69 GD)
Disk 3	Status	RAID Array 1
	Unit Name	WD2500JS-00NCB1
	Total Connector	244 100 E04 Martin /222 00 /201
	. Jan Capacity	and a state of the
Disk 4	Status	RAID Amay 1
	Unit Name	WD2500JS-00NCB1
	Trail Groups	
	rotal Capacity	244,198,584 kbytes (232.89 GB)
🦌 USB Disk	Information	
USB Disk 1	Status	Not Detected
USB Disk 2	Status	Not Detected
## **Advanced Settings**

### System Status (Network Information)

			Luci n
Home	System Status		L HELP
Basic	Natural Information		
Network	Network Information		
Disk Management	MAC Address	00:16:01:7E:87:2E	
Shared Folders	IP Address	192.168.7.65	
Group Management	Subnet Mask	255.255.255.0	
Jser Management	Primary DNS Server Address	192 168 7 3	
Disk Backup	Consider DNC Course Address	246 204 429 40	
Cast	Secondary Divo Server Address	210.201.120.10	
laintenance	Default Gateway	192.168.7.1	
System Status	Ethernet Frame Size	1,518 bytes	
system Information	Link Speed	1000 Mbps (Full Duplex)	
SB Details	Packets Received	108,560 Packets	
ve Properties	Packets Received with Errors	0 Packets	
g Information	Packets Transmitted	7 704 Packets	
ogout	Packete Transmitted with Errore	0 Packata	

This page shows you the System Information for your network connection.

## System Status

### Log Information

TeraStation	>	BUFFALO
Home Basic Network Disk Management	System Status System Log Log Type System Log	HELP
Shared Folders       Stared Folders       Group Management       User Management       Disk Backup       Maintenance	Save File Download S Do you want to open or save this file? Do you want to open or save this file? The same DD(20)000006 redme.txt	
FTI System Status System Information USB Details Drive Properties	Type: Tect Dearment From: 192, 186, 2, 397	
Network Information           Log Information           Logout	White lists from the Internet care the sustaid asses files can obtentially have poor computer. If you do not but the source, do not open or serve that file. <u>What a storage</u> ?	
_	Copyright 2002-2006 (C) BUFFALO INC. All Rights Reserved.	_

This page lets you save or display system log information. Choose the log you want from the *Log Type* dropdown and click *Save*. The dialog will let you save or display ("Open") the logfile.

# **TeraStation Client Utility**

💮 TeraStation Client Utility					
<u>File Setup Ma</u>	ipping <u>H</u> elp				
BT-TERA01 GI	GAANDRE   TEST2×	TERAANDRE   TERAPRO	TERACHRIS TERABRIAN DI		
Host Name	TERABRIAN	HDD(RAID5)	246.468 / 696.568 (35%)		
Workgroup	WORKGROUP				
IP Address	192. 168. 7. 55				
Subnet Mask	255. 255. 255. 0				
Firmware	1.00				
TS-1.0TGL/R	δ;				
Tera Station					
		I'm here	e Refresh View Shares		

This is the *TeraStation Client Utility*. Installed on your PC, it allows you to access each of the TeraStations on your network. Click *Refresh List* to get tabs for each of your TeraStations. Each tab shows the Host Name, Workgroup, IP Address, and Subnet Mask of the associated TeraStation, as well as the version of firmware it's running.

With a TeraStation's tab selected, you can click on the *View Shares* button to go directly to its root share. Clicking the *Setup* pulldown menu and selecting *Browser Management* takes you to the configuration GUI. And clicking *Setup* and choosing *Modify IP Address* takes you to the following screen . . .

## TeraStation Client Utility

### **IP Address Setup**

IP Address Setup		
C Acquire IP Address Automatica		
New IP Address		
IP Address 192 168 7		
Subnet Mask 255 255 255 0		
Administrator		
OK Cancel		

Here, you may enter your *IP Address* and *Subnet Mask* manually, or enable your TeraStation to acquire them automatically from a DHCP server. You'll need the administrator password to use this screen. Press *OK* when you're done.

## Troubleshooting

If TeraStation encounters a disk error, it will be reported in the *TeraStation status* on the top of any of the Web-Based configuration screens. Run a Disk Scan in the event of this error. If that does not resolve the problem, a *format* is recommended. Formatting the drive will delete all of the data on it, so back up any data you can before formatting. Finally, if none of the above solutions help, then please contact Technical Support (see pages 85 and 86 for Technical Support contact information).

## Troubleshooting

## **DIAG LCD Codes:**

Error Code	Description	Alert Sound
E00	MPU error: Main MPU is not responding.	А
E01	Error on DRAM DATA LIN	А
E02	Error on DRAM ADDRESS LINE	А
E03	Error on RTC CHIP	А
E04	Failed to load kernel (FLASH error)	А
E10	UPS AC LINE FAIL Error	В
E11	FAN Error: Fan rotation speed is low or fan is stopped.	В
E12	Cooling Error: Cooling by fan cannot catch up.	В
E13	Error has occurred on RAID Array x.	В
E14	Cannot mount RAID Array x.	В
E15	Not Used	
E16	Cannot find HDDx.	В
E17	Cannot communicate with RTC chip (IC12).	А
E18	Cannot communicate with SATA chip (IC1).	А
E19	Cannot communicate with SATA chip 2 (IC2)	А
E20	Cannot communicate with USB chip (IC5)	А
E21	Cannot communicate with Ethernet chip (IC13)	А
E22	Cannot mount HDDx	В
E23	HDDx faulty (HDDx is excluded from raid because of error	s) B

### Safety Warning:

Do not use a replacement Hard Disk Drive which has more than 0.92A at 5Vdc and 0.9A at 12Vdc for the specification of current load.

Do not use any Hard Disk Drive which does not have required safety certificate (example: MET, UL) approved by NRTL.

The above warnings are basic safety restrictions only, and do not constitute the full requirements for a hard disk drive to function properly in the TeraStation.

## **Replacing a Hard Drive**

### Turn the key counter-clockwise to open drive door.





Squeeze the tabs gently and swing the tray latch upward.



The hard drive tray will now slide out.

Lower the drive carefully to the work surface.





Gently push down on the two tabs to release the plug.

Pull the plug straight out to remove the drive.





To remove the hard drive from its cage, set the assembly on a soft surface and remove these four screws. Install a new hard drive by doing the same steps in reverse order:

Begin by screwing the new hard drive into the cage.

Plug the power/data connector into the hard drive.

Slide the hard drive cage back into the TeraStation.

Press the latch down to lock the hard drive cage in place.









## **Technical Specifications**

LAN Standards:	IEEE 802.3u 100BASE-TX; IEEE 802.3 10BASE-T
Transmission Types:	1000Mbps/100Mbps/10Mbps; 100BASE-TX
	4B/5B, MLT-3;10BASE-T Manchester Coding
Access Media:	CSMA/CD
Media Interface:	RJ-45
USB Standard:	USB 2.0 Hi-Speed (HS) Full-Speed (FS) Low-Speed (LS)
USB Connector:	USB A Connector (2)
Data Transmission Speed:	Max: 480 Mbps (HS Mode) Max: 12 Mbps (FS Mode)
Power Consumption:	~56W (Varies based on size)
Dimensions:	6.7" x 9.3" x 12.2" (170 x 235 x 310 mm.)
Weight:	~15.8 lb. (7.2 kg.) (Weight varies based on size)
Operating Environment:	32° - 95° F; 20-80% non-condensing

Buffalo Technology USA Inc. 4030 West Braker Lane, Suite 120 Austin, TX 78759-5319

### **GENERAL INQUIRIES**

Monday through Friday 8:30am-5:30pm CST Direct: 512-794-8533 | Toll-free: 800-456-9799 | Fax: 512-794-8520 | Email: sales@ buffalotech.com

### **TECHNICAL SUPPORT**

North American Technical Support by phone is available 24 hours a day, 7 days a week. (USA and Canada). **Toll-free:** (866) 752-6210 | **Email:** *info@buffalotech.com*  Buffalo Technology UK Ltd. 176 Buckingham Avenue, Slough, Berkshire, SL1 4RD United Kingdom

### **GENERAL INQUIRIES**

Email: sales@buffalo-technology.com

### **TECHNICAL SUPPORT**

Phone (UK only): 08712 50 12 60\* Phone: +353 61 70 80 50 Email: *helpdesk@buffalo-technology.ie* \*Calls cost 8.5p per minute

Technical Support Operating Hours Monday - Friday (GMT) 9:00 AM - 6:00 PM Monday-Thursday 9:00 AM - 4:30 PM Friday

# GPL Information (North America)

Thank you for your interest in Buffalo products. Our GPL software delivery policy is outlined below.

For each individual product and revision, please send one individually packaged self addressed padded CD shipping envelope, containing a blank CD-R to the following address:

### Buffalo Technology USA Inc. 4030 W. Braker Lane Suite 120 Austin, TX 78759 Attn. GPL Department

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