

# User Manual

## TeraStation Live HS-DH-TGL/R5



Congratulations on your new TeraStation! This user manual is intended to assist you in configuring it.

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 80 and 81.

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

## 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.

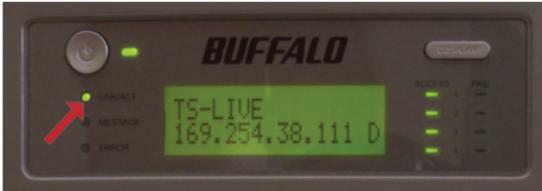


Plug the other end of the Ethernet cable into a hub, router, or switch in your network.



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.

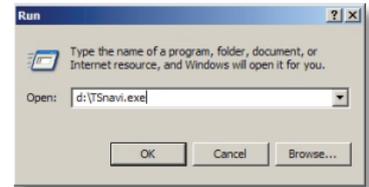
Having problems? Make sure that:

- 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 66 and 67 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 `setup.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.





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.





Continue pressing *Next* to step through the installation.

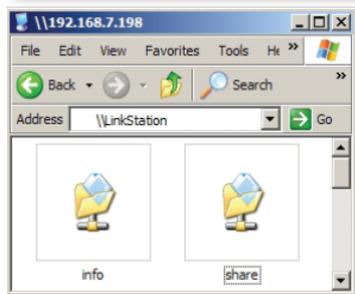
When installation is complete, you may close the installation window.



# 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.

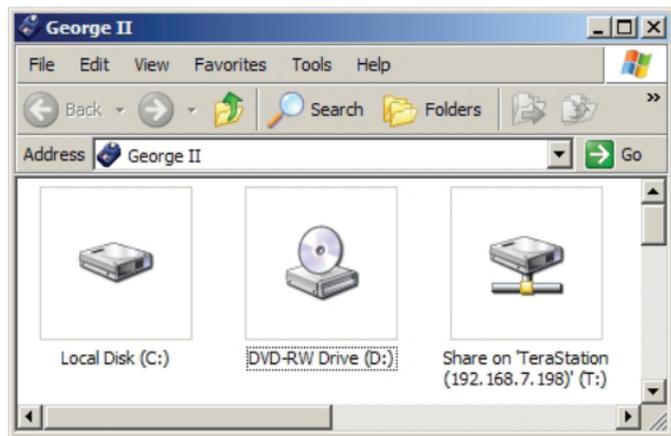
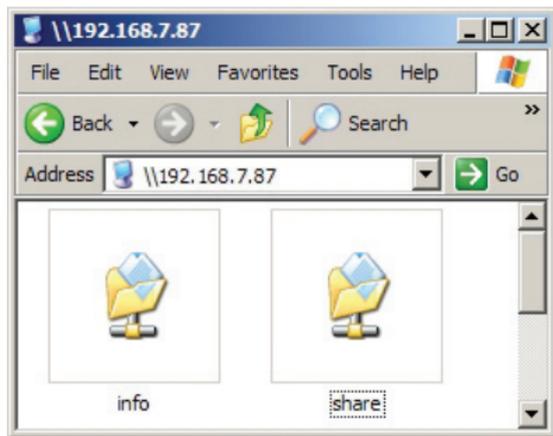


The *Buffalo NAS Navigator* icon opens the TeraStation's client utility. Turn to page 71 for more on using the NAS Navigator client utility.

# Accessing TeraStation Data from your PC

## To Access TeraStation Data from a PC:

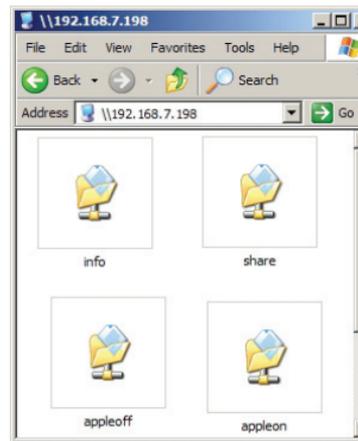
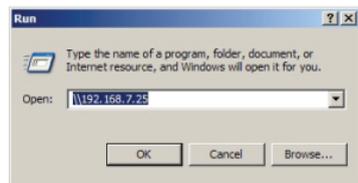
Your TeraStation uses “shares” (folders) to hold data. A share called “share” is already configured on your TeraStation, and you can create additional shares on page 40. To start using your TeraStation, you can either click on the *Shortcut for TS-Live* on your desktop, or you may just use *drive T*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



# Accessing TeraStation Data from your PC

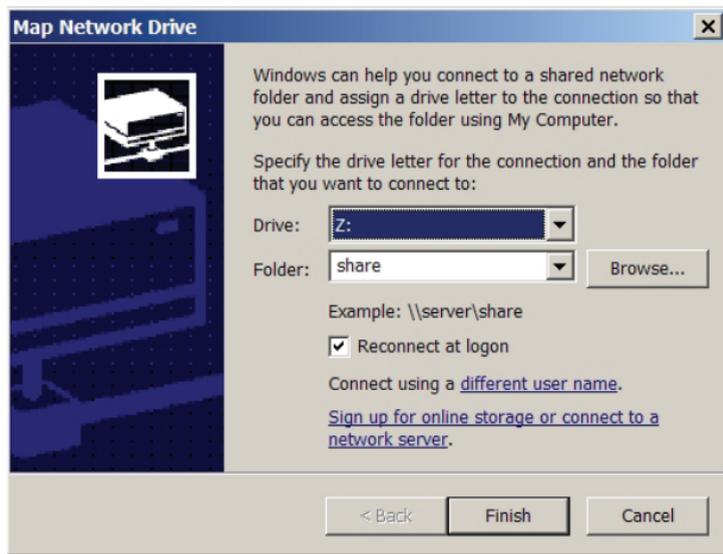
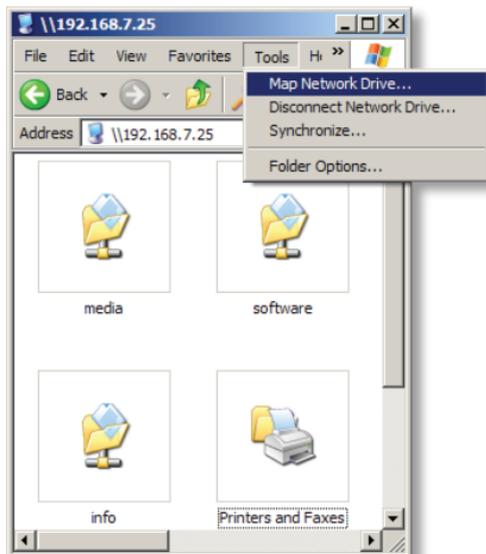
You can map additional drive letters to shares on your TeraStation. From the *Start* menu, select *Run....* Enter your TeraStation's hostname (you can get it from the NAS Navigator utility) or IP address. Press *OK*.

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.



# 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

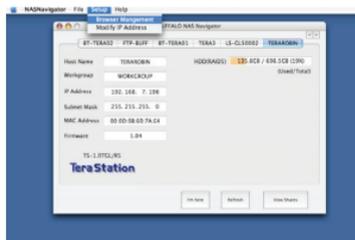


After installing the TeraNavigator software, your Mac will have two new icons on the desktop.

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



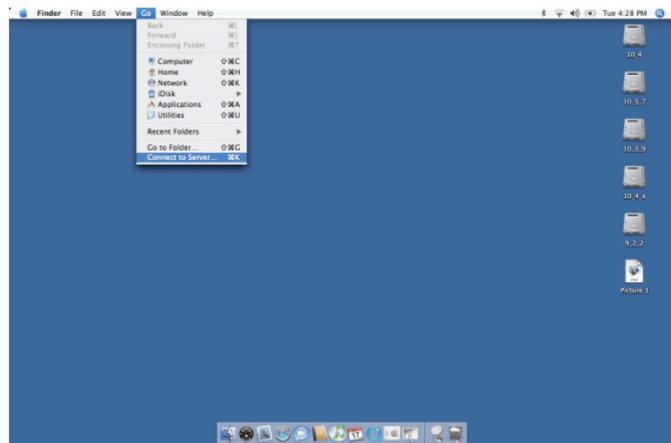
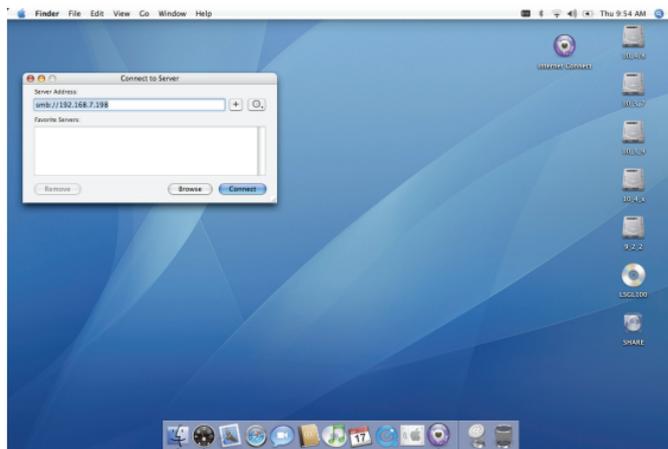
Clicking *Share* opens the main folder on your TeraStation. You can put files and folders in *Share* as though it were any other hard drive connected to your computer.



The *NAS Navigator* icon opens the TeraStation's client utility. See page 71 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.



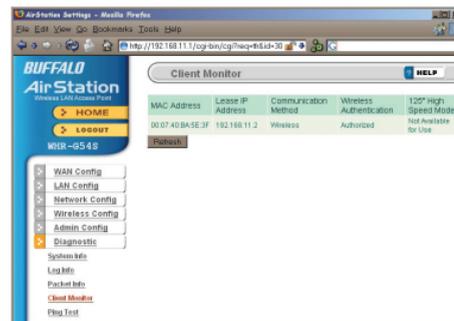
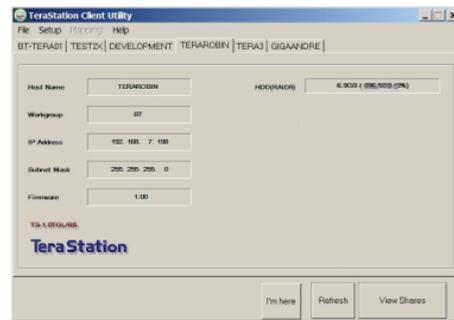
# Accessing TeraStation Data from a Mac

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 73 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.



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 50 shows you how to set up TeraStation to back up to a USB Hard Drive.

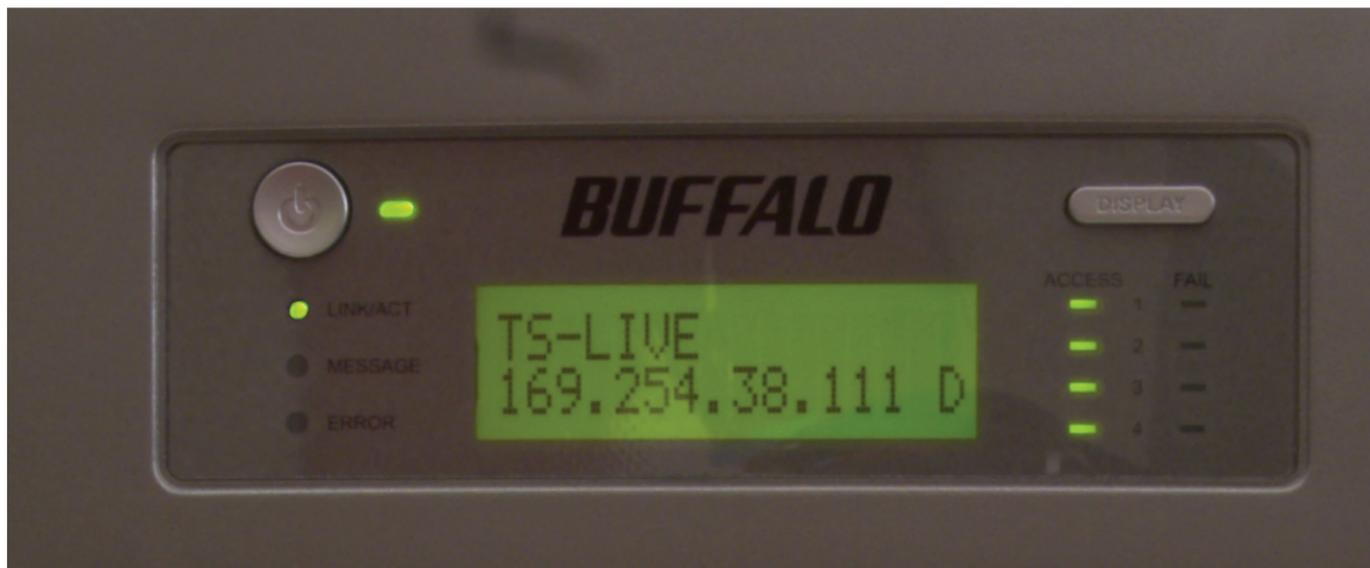
**Power Button** – Press and release the Power Button to turn the TeraStation on. Hold it down for three seconds to turn the TeraStation off.

**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 75 for information on replacing hard drives.



The Status LCD can be configured to display specific TeraStation information. Please see page 62 to configure the various display options.



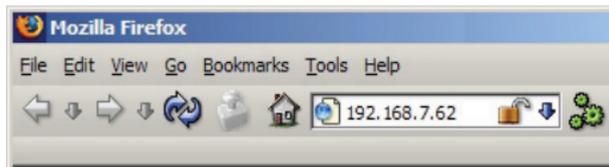
**Power Plug** – The TeraStation Live is designed for 100-120 Volt AC power. Connecting this plug to a 220 V power supply will damage your TeraStation Live.

**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.

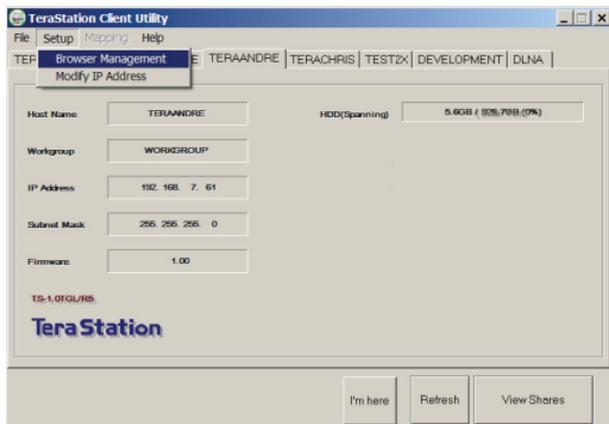
**USB Ports** – TeraStation offers two USB 2.0/1.1 ports for adding external drives.



## The Configuration GUI



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.



The screenshot shows the TeraStation login interface. At the top left is the 'TeraStation' logo with the tagline 'RAID 0's Network Attached Storage'. At the top right is the 'BUFFALO' logo. The main content area is titled 'Login' and includes a yellow 'HELP' button. A message prompts the user to enter their username and password. The 'User Name' field contains 'admin' and the 'Password' field contains 'password' (masked with dots). A 'Login' button is located at the bottom left of the form.

User name: *admin*

Password: *password*

See page 47 to change your password.

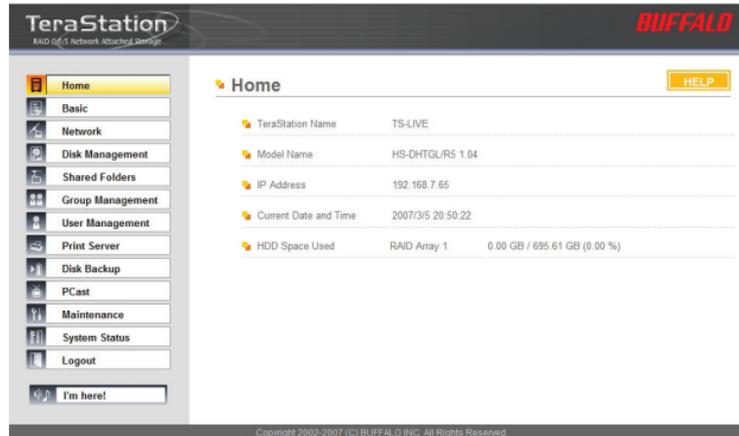
If this login prompt does not appear, your DHCP server may not be functioning correctly. If DHCP is disabled, you may re-enable it, or verify

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

Note: Pages 67 and 68 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.



The screenshot displays the TeraStation configuration interface. The top header features the 'TeraStation' logo on the left and the 'BUFFALO' logo on the right. Below the logo, the text 'RAID 0/1/5 Network Attached Storage' is visible. A vertical navigation menu on the left side contains several options: Home (highlighted in yellow), Basic, Network, Disk Management, Shared Folders, Group Management, User Management, Print Server, Disk Backup, PCast, Maintenance, System Status, Logout, and I'm here! (with a speaker icon). The main content area is titled 'Home' and includes a 'HELP' button. It lists the following configuration details:

- TeraStation Name: TS-LIVE
- Model Name: HS-DHTGLR5 1.04
- IP Address: 192.168.7.55
- Current Date and Time: 2007/3/5 20:50:22
- HDD Space Used: RAID Array 1 0.00 GB / 695.61 GB (0.00 %)

At the bottom of the interface, a copyright notice reads: 'Copyright 2002-2007 (C) BUFFALO INC. All Rights Reserved.'

## Basic

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

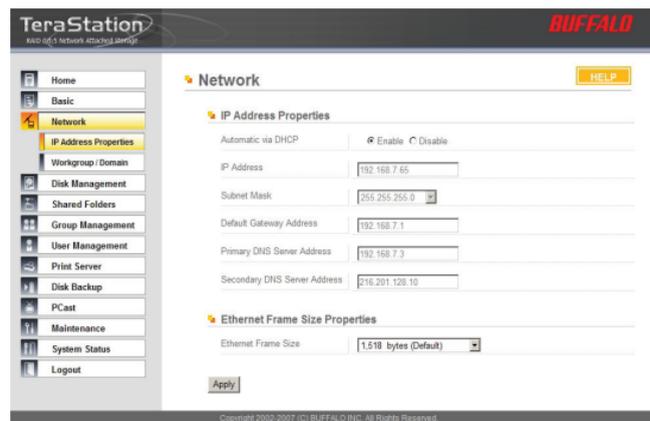
Make sure that the date and time are correct in *Date and Time Setup*. To synchronize time settings with those in your computer, press *Use Local Time*. To have your system time automatically set by an NTP server, enable *NTP Server* and enter an IP Address for the NTP server (e.g. 192.43.244.18) or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

The screenshot shows the 'Basic' settings page of a TeraStation. The page has a dark header with 'TeraStation' and 'BUFFALO' logos. A left sidebar contains a menu with options: Home, Basic (selected), Network, Disk Management, Shared Folders, Group Management, User Management, Print Server, Disk Backup, PCast, Maintenance, System Status, and Logout. The main content area is titled 'Basic' and includes a 'HELP' button. It is divided into several sections: 'Hostname Setup' with fields for 'TeraStation Hostname' (containing 'TS-LIVE') and 'TeraStation Description' (containing 'TeraStation'); 'Date and Time Setup' with date pickers (Year: 2007, Month: 5, Day: 1), time pickers (Hours: 20, Mins: 50, Secs: 47), a 'Use Local Time' button, and a 'Time Zone' dropdown (set to 'GMT-05:00'); 'NTP Settings' with an 'NTP Server' checkbox (unchecked), an 'NTP Server Address' field, a checkbox for 'Use default NTP server (ntp.jst.mfeed.ad.jp)' (checked), and an 'NTP Synchronization Frequency' dropdown (set to 'Once a day'); and 'Text Display Settings' with a 'Display Language' dropdown (set to 'English (English)') and a 'Windows Client Language' dropdown (set to 'CP437 (United States, Canada)'). An 'Apply' button is at the bottom left of the settings area. A copyright notice 'Copyright 2002-2007 (C) BUFFALO INC. All Rights Reserved.' is at the bottom of the page.

## Network (IP Address Properties)

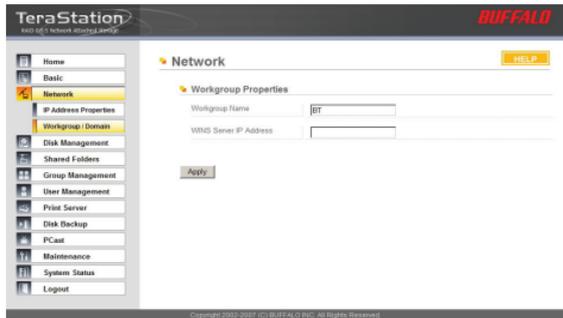


In most networks, TeraStation will get its IP Address automatically from a DHCP server. You may disable DHCP here. If DHCP is disabled and an IP Address is not set manually, it will default to *192.168.11.150*. The TeraStation's *IP Address*, *Subnet Mask*, *Default Gateway Address*, and *DNS Server 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)



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.

**TeraStation** BUFFALO

Home Basic Network **Disk Management** Drive Properties RAID Setup USB Settings Disk Check Disk Format Disk Erase Shared Folders Group Management User Management Print Server Disk Backup PCast Maintenance System Status Logout

### Disk Management

**RAID Array Information**

RAID Array 1	Status	Normal
	RAID Mode	RAID5
	Disk Structure	Disk 1, 2, 3, 4
	Total Capacity	728,396,352 bytes (895.61 GB)
	Amount Used	4,535 bytes (0.99 GB)
	Percent Used	0.99 %
	File Format	NTFS
RAID Array 2	Status	Not Configured

**Disk Information**

Disk 1	Status	RAID Array 1
	Link Name	WDC050LS-80NC01
	Total Capacity	244,198,584 bytes (232.89 GB)
Disk 2	Status	RAID Array 1
	Link Name	WDC050LS-80NC01
	Total Capacity	244,198,584 bytes (232.89 GB)
Disk 3	Status	RAID Array 1
	Link Name	WDC050LS-80NC01
	Total Capacity	244,198,584 bytes (232.89 GB)
Disk 4	Status	RAID Array 1
	Link Name	WDC050LS-80NC01
	Total Capacity	244,198,584 bytes (232.89 GB)

**USB Disk Information**

USB Disk 1	Status	Not Detected
USB Disk 2	Status	Not Detected

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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 Spanning* - All four drives are striped into one large 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 (or spanned pairs of 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 your TeraStation, 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. RAID 5 is an excellent compromise between efficiency and security. If a single drive fails, no data is lost. After the damaged or defective drive is replaced, your TeraStation will automatically restore all data to the new drive and resume normal RAID 5 operation. This is how your TeraStation is set up out of the box.

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

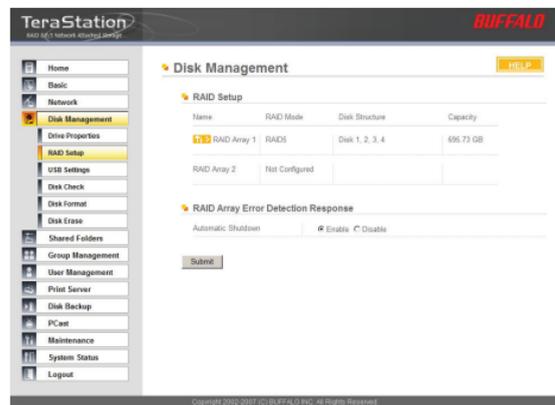
## Disk Management (RAID Setup)

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.

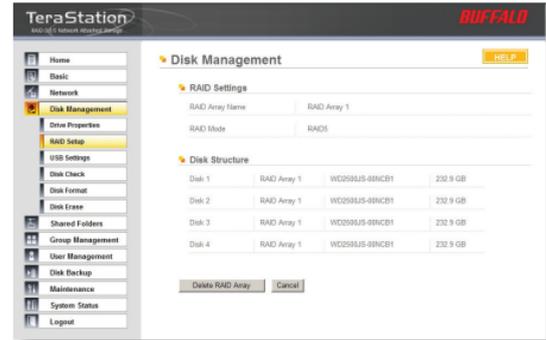
You may also disable *RAID Array Error Detection Response* from this page. Normally, this is set to automatically shut down the RAID array when an error is detected. Though it is not recommended, you may disable that behavior by selecting *Disable*.

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*.

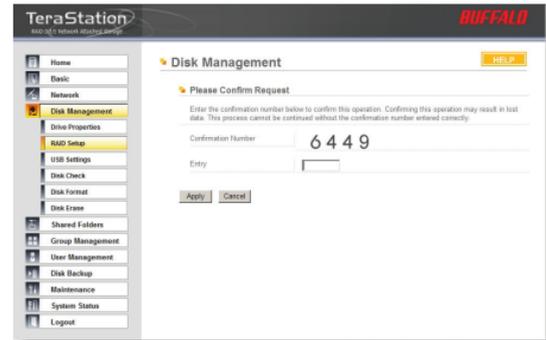


## Disk Management (RAID Configuration)

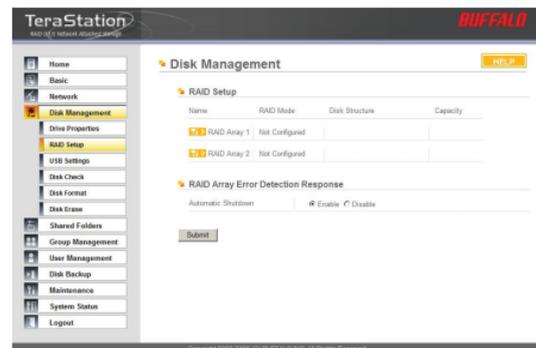
A configured RAID array may be deleted by pushing the *Delete RAID Array* button. This will free up all hard drives listed under Disk Structure.



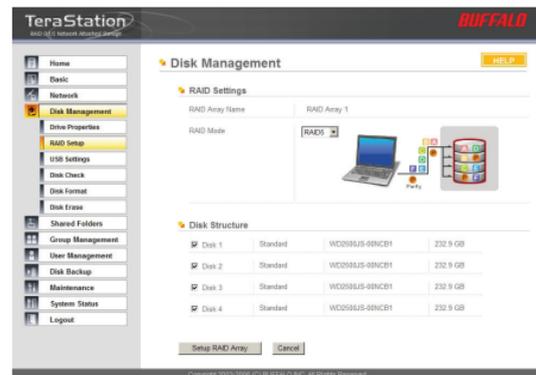
You will need to enter a confirmation number from the screen before the RAID array will be deleted.



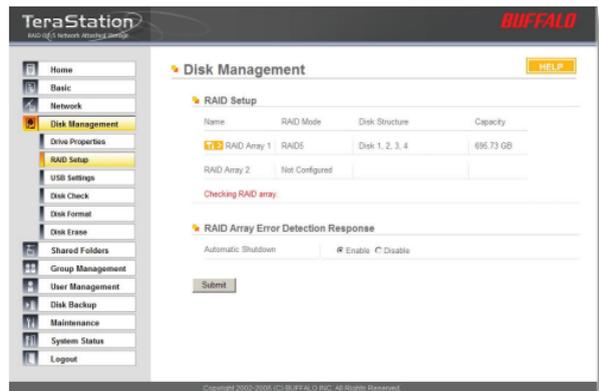
To configure an unconfigured array, begin by double clicking on the array you want to configure, e.g. “RAID Array 1”.



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)



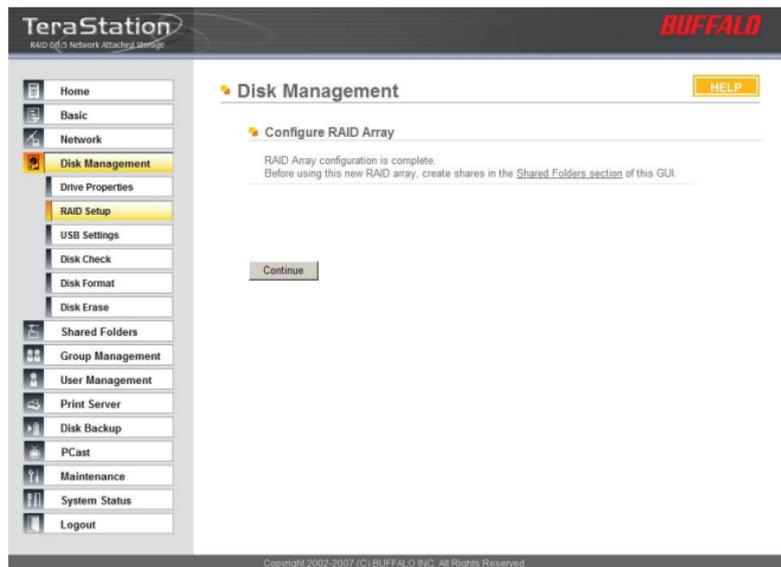
The screenshot displays the Buffalo TeraStation web interface. The left sidebar contains a navigation menu with options: Home, Basic, Network, Disk Management (selected), Drive Properties, RAID Setup, USB Settings, Disk Check, Disk Format, Disk Erase, Shared Folders, Group Management, User Management, Disk Backup, Maintenance, System Status, and Logout. The main content area is titled 'Disk Management' and includes a 'HELP' button. Under 'RAID Setup', there is a table with the following data:

Name	RAID Mode	Disk Structure	Capacity
RAID Array 1	RAID5	Disk 1, 2, 3, 4	696.73 GB
RAID Array 2	Not Configured		

Below the table, it indicates 'Checking RAID array.' Under 'RAID Array Error Detection Response', the 'Automatic Shutdown' option is set to 'Enable' (radio button selected) instead of 'Disable'. A 'Submit' button is located at the bottom of this section. The footer of the interface reads 'Copyright 2002-2009 (C) BUFFALO INC. All Rights Reserved.'

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)



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.



**TeraStation**  
RAID 0/5 Network Attached Storage

**BUFFALO**

Home  
Basic  
Network  
**Disk Management**  
Drive Properties  
RAID Setup  
USB Settings  
Disk Check  
Disk Format  
Disk Erase  
Shared Folders  
Group Management  
User Management  
Disk Backup  
Maintenance  
System Status  
Logout

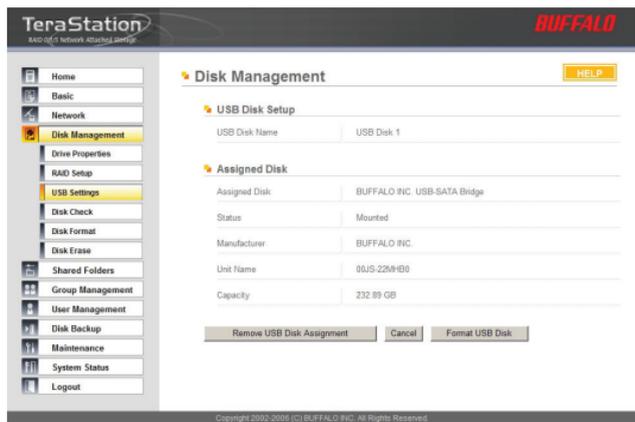
**Disk Management** [HELP](#)

**USB Disk Setup**

Name	Assigned Disk	Capacity
USB Disk 1	BUFFALO INC. USB-SATA Bridge	232.82 GB
USB Disk 2	Not Assigned	

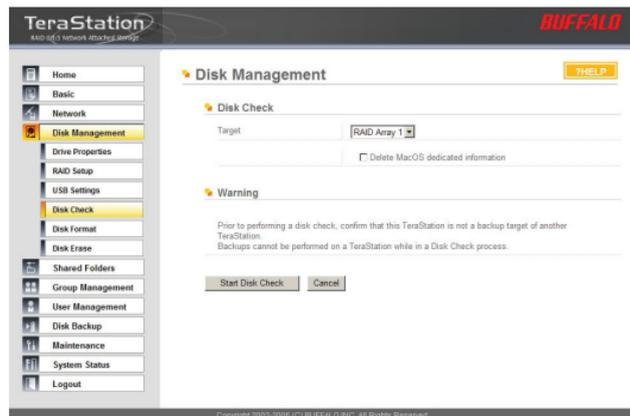
Copyright 2002-2006 (C) BUFFALO INC. All Rights Reserved.

## Disk Management (USB hard drive setup)



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.

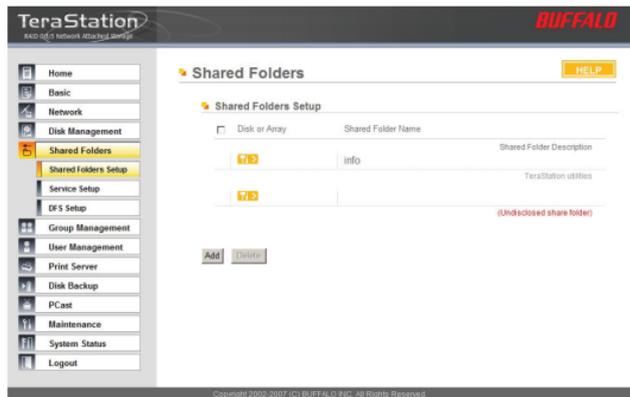
## Disk Management (Disk Format)



To format a hard drive or array, select it from the *Target Disk* drop box. Choose the file system desired from the *File System* dropdown (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



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)

**TeraStation** BUFFALO

Home  
Basic  
Network  
Disk Management  
**Shared Folders**  
Shared Folders Setup  
Service Setup  
DFS Setup  
Group Management  
User Management  
Disk Backup  
Maintenance  
System Status  
Logout

**Shared Folders** HELP

**Add New Shared Folder**

Shared Folder Name:

Shared Folder Description:

Volume:

Shared Folder Support:  Windows  Apple  FTP  Disk Backup

Shared Folder Attributes:  Read Only  Read / Write  Hidden Share(SMB Only)

Recycle Bin:  Enable  Disable

File Operation Log:  Enabled  Disabled

Remote Backup Password:

Offline Files:

**Access Restrictions**

Access Restrictions:  Enable  Disable

	Read / Write	Read Only	All Groups / Users
Group	<input type="text" value="admin"/>	<input type="text"/>	<input type="text" value="admin"/> <input type="text" value="guest"/> <input type="text" value="nusers"/>
User	<input type="text"/>	<input type="text" value="robin"/>	<input type="text" value="admin"/> <input type="text" value="guest"/> <input type="text" value="robin"/>

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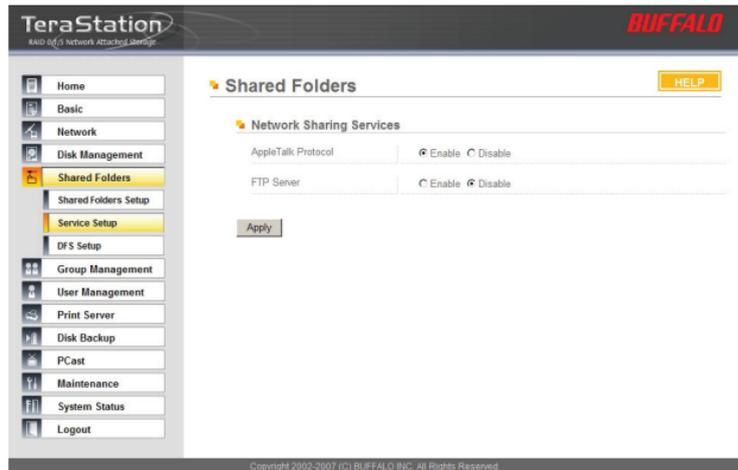
To use *Access Restrictions* for a share, select *Enable*.

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)

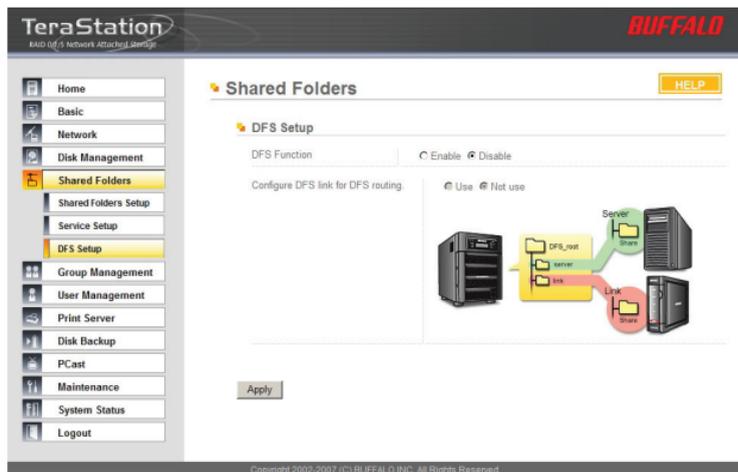


To allow FTP Access to TeraStation, choose *Enable* for *FTP Server*. To enable legacy AppleTalk support, choose *Enable* for *AppleTalk Protocol*.

**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.

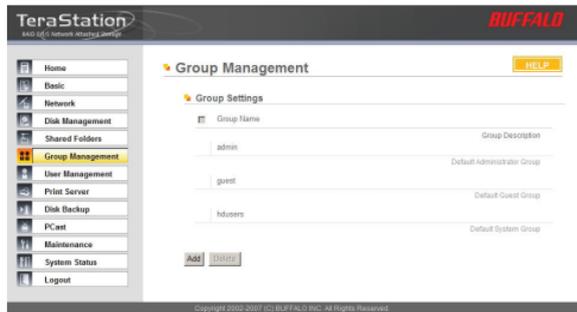
Click the *Apply* button to set up these services.

## 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



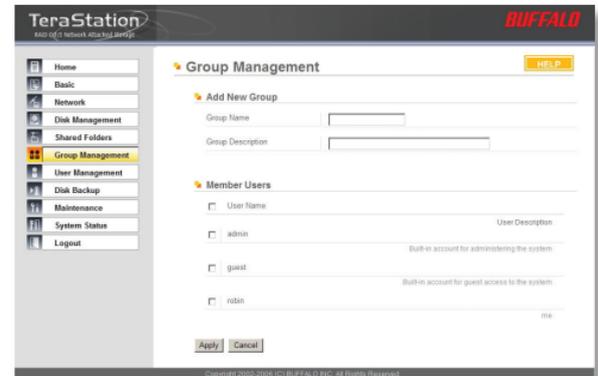
Add a name and a description to the *Add New Group* fields. Put checks next to each *Member User* that you want to be part of the group. Click *Apply* when your group is set up the way you want it.

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

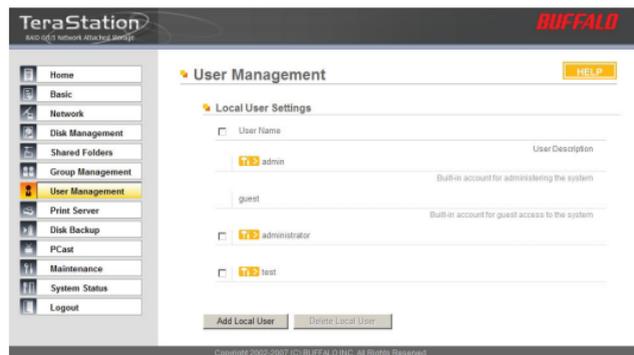
Members can be added or removed from a group at any time by editing the group. This is done by clicking on the Group name on the main Group Settings page.

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*.

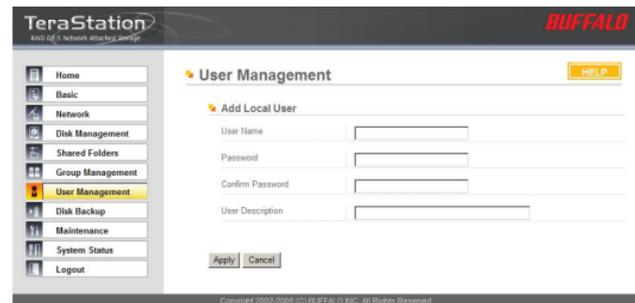


## User Management

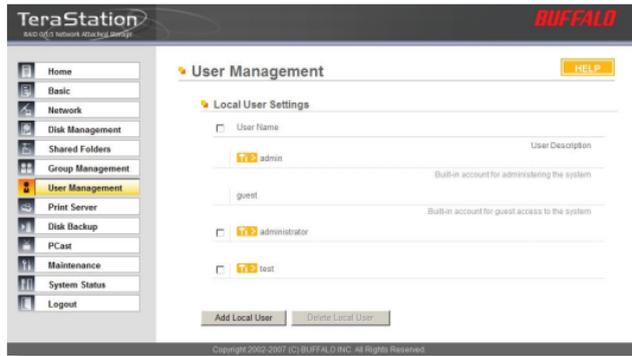


The *Add New User* dialog will appear. Enter a *User Name*, *Password*, and *User Description* for the new user and click the *Apply* button. If a user will be accessing the TeraStation from a Windows 95/98 computer, their password should be 15 characters or less. Mac OS 8 and OS 9 users' passwords should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

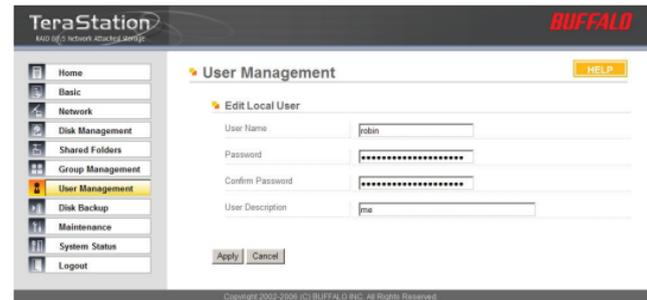


## User Management (changing passwords)



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*.



## Troubleshooting Multiple Shares

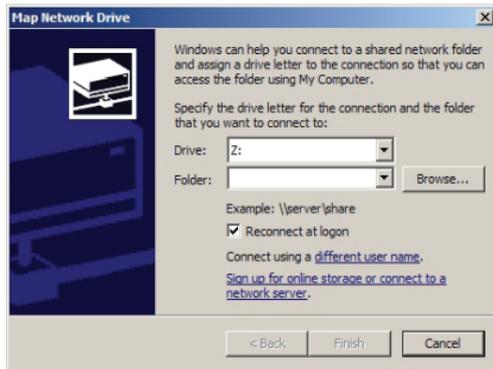


When accessing multiple shares to a Windows PC, you may see this error message.

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



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!



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 mapped 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

The screenshot shows the Buffalo TeraStation web interface for Disk Backup management. The left sidebar contains a navigation menu with options: Home, Basic, Network, Disk Management, Shared Folders, Group Management, User Management, Print Server, Disk Backup (highlighted), Disk Backup List, Add TeraStation, PCast, Maintenance, System Status, and Logout. The main content area is titled 'Disk Backup' and includes a 'HELP' button. Below the title, there is a section for 'Disk Backup' containing a table with columns for Job Number, Schedule, and Status. The table lists eight jobs, all with a status of 'Not Created'. Below the table is a section for 'Search for a Backup Destination by Password' with a text input field for the password and an 'Apply' button. At the bottom of the interface, there is a copyright notice: 'Copyright 2002-2006 (C) BUFFALO INC. All Rights Reserved.'

Job Number	Schedule	Status
1712 Job 1		Not Created
1713 Job 2		Not Created
1713 Job 3		Not Created
1713 Job 4		Not Created
1713 Job 5		Not Created
1712 Job 6		Not Created
1713 Job 7		Not Created
1713 Job 8		Not Created

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

## Disk Backup (Edit Backup Job)

**TeraStation**  
Buffalo

Home  
Basic  
Network  
Disk Management  
Shared Folders  
Group Management  
User Management  
Disk Backup  
TeraStation List  
Add TeraStation  
Maintenance  
System Status  
Logout

**Disk Backup** HELP

**Edit Backup Job**

Job Number: Job 1

Backup Job Schedule:  Not Scheduled  Immediately  Every day  Every week

Backup Date: Saturday

Backup Time: 1 Hour 00 Minute

Backup Operation Mode: Normal Backup

Backup Options:

- Create a Folder Inside of the Backup Target
- Use Encryption
- Use Compression
- Create a Backup Log File
- Ignore Errors and Proceed with Future Backups

Apply Cancel Clear Job

**Backup Source and Destination Folders**

Local Backup Shared Folder  Destination Backup Shared Folder

Choose a source and destination folder for backup and click Select

Source: [ ] Destination: TS-HTGL006@usbdisk1

Select Remove

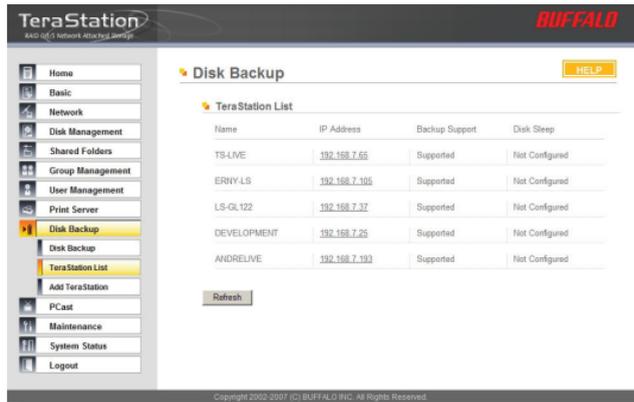
Copyright 2002-2008 (C) BUFFALO INC. All Rights Reserved.

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* dropdown, and the destination for the backup files from the *Destination Backup Shared Folder* dropdown. 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)



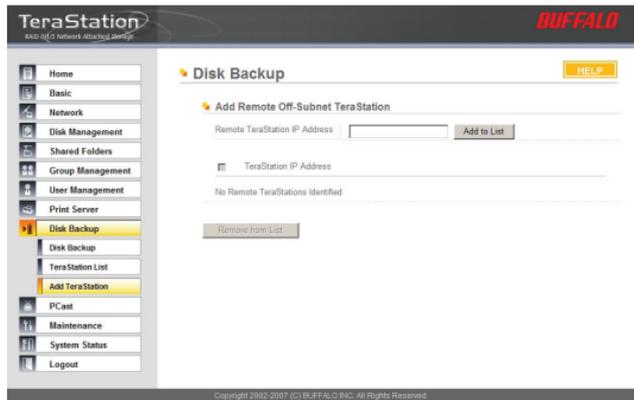
The screenshot shows the TeraStation web interface. The left sidebar contains navigation options: Home, Basic, Network, Disk Management, Shared Folders, Group Management, User Management, Print Server, Disk Backup (selected), Disk Backup, TeraStation List (selected), Add TeraStation, PCast, Maintenance, System Status, and Logout. The main content area is titled "Disk Backup" and contains a "TeraStation List" table. The table has four columns: Name, IP Address, Backup Support, and Disk Sleep. Below the table is a "Refresh" button. The Buffalo logo is in the top right corner of the interface.

Name	IP Address	Backup Support	Disk Sleep
TS-LIVE	192.168.7.66	Supported	Not Configured
ERNY-LS	192.168.7.105	Supported	Not Configured
LS-GL122	192.168.7.37	Supported	Not Configured
DEVELOPMENT	192.168.7.25	Supported	Not Configured
ANDRELIVE	192.168.7.193	Supported	Not Configured

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.

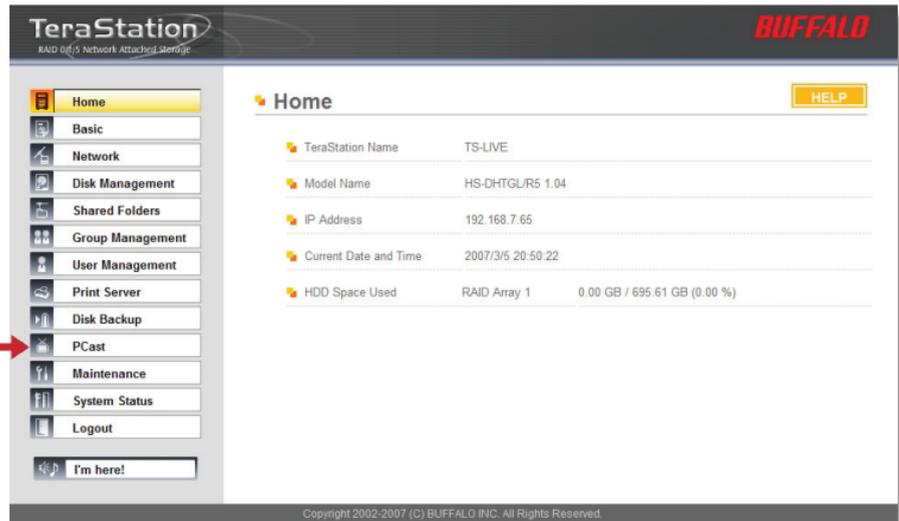
## Disk Backup (Add TeraStation)



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.

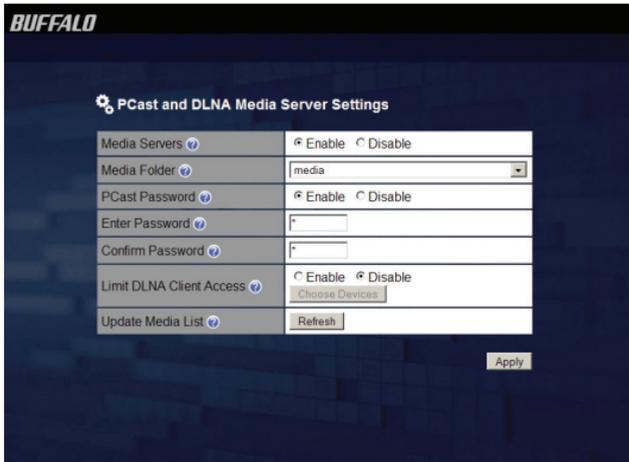
Note: Disk Backups between two TeraStations use port 8873 for encrypted backups and port 873 for backups with no encryption.

PCast 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](http://www.buffalotech.com) and look under Multimedia Products.



**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.

**BUFFALO**

⚙️ Access Limitation of DLNA Client

DLNA client that permits access

	MAC Address	IP Address	Device Name
Access from all DLNA client is prohibited			
Deny Access   Select All   Clear All			

Search of DLNA client

Search

	MAC Address	IP Address	Device Name
<input type="checkbox"/>	00:13:D3:13:65:0F	192.168.7.102	TECHN/WRITER02: Windows Media Connect
<input type="checkbox"/>	00:80:87:44:BC:D9	(Not detected)	0L44BCD9
<input type="checkbox"/>	00:11:25:B0:2D:00	(Not detected)	(Not detected)
<input type="checkbox"/>	00:11:09:D8:DA:DB	192.168.7.45	(Not detected)
<input type="checkbox"/>	00:0D:0B:36:DC:68	(Not detected)	(Not detected)
<input type="checkbox"/>	00:0D:60:78:76:A6	(Not detected)	(Not detected)
<input type="checkbox"/>	00:07:40:BA:5E:52	(Not detected)	(Not detected)
<input type="checkbox"/>	00:0B:DB:91:D0:A5	(Not detected)	(Not detected)
<input type="checkbox"/>	08:00:46:BF:9C:AF	(Not detected)	(Not detected)

Allow access   Select All   Clear All

Apply   Cancel

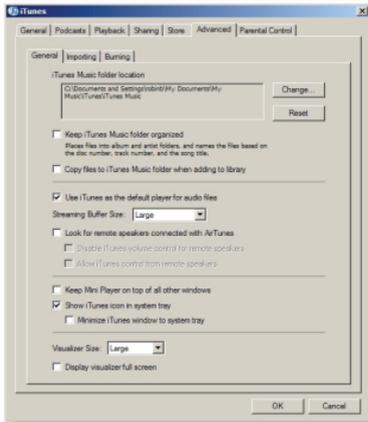
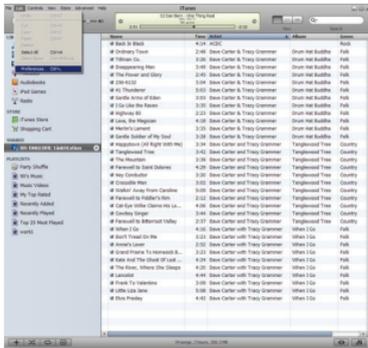
Get to this page by clicking *Choose Devices* on the previous page.

**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*.



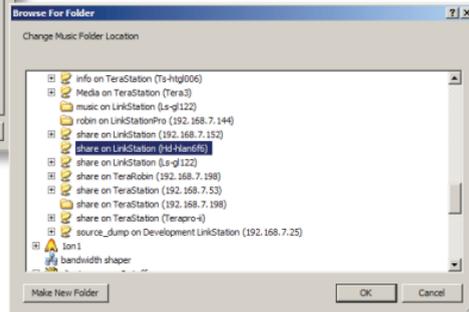
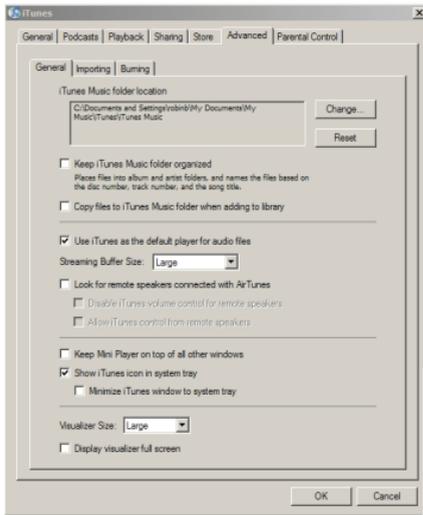
# Using your TeraStation with iTunes

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*.

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.

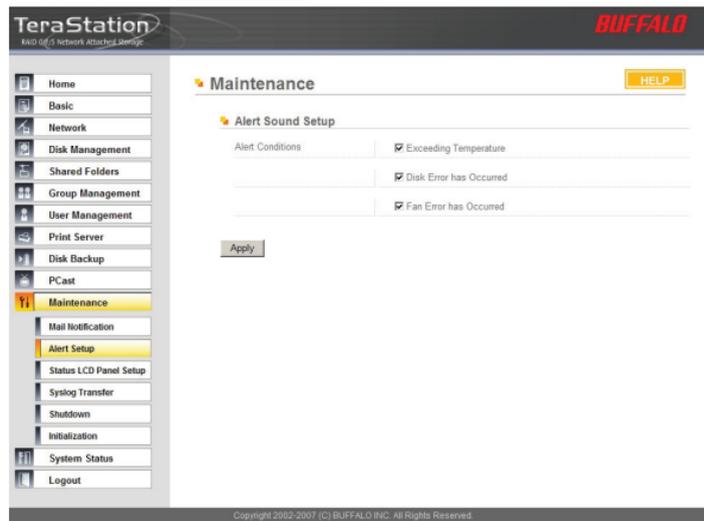
## Maintenance (Notification)

The screenshot shows the TeraStation Buffalo web interface. The left sidebar contains a navigation menu with the following items: Home, Basic, Network, Disk Management, Shared Folders, Group Management, User Management, Print Server, Disk Backup, PCast, Maintenance (highlighted), Mail Notification (highlighted), Alert Setup, Status LCD Panel Setup, System Transfer, Shutdown, Initialization, System Status, and Logout. The main content area is titled 'Maintenance' and contains a 'Mail Notification' section. This section has a 'Mail Notification' header with 'Enable' selected and 'Disable' as an option. Below this are five 'Recipient Mail Address' fields, each with a text input box. The 'Subject' field is set to 'TeraStation Status Report' and has a 'Default' button next to it. The 'SMTP Server Address' field is empty. The 'Notification Trigger' section includes checkboxes for 'HDD Status Report', 'System Alert', 'Disk Failure', 'Fan Failure', and 'Completed Backups', all of which are checked. The 'HDD Status Sending Time' is set to '0' with a dropdown arrow and 'o'clock' next to it. At the bottom of the form are 'Apply' and 'Send Test Message' buttons. The footer of the interface reads 'Copyright 2002-2007 (C) BUFFALO INC. All Rights Reserved'.

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)



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)

The screenshot shows the TeraStation web interface. The left sidebar contains a navigation menu with the following items: Home, Basic, Network, Disk Management, Shared Folders, Group Management, User Management, Print Server, Disk Backup, PCast, Maintenance (highlighted), Mail Notification, Alert Setup, Status LCD Panel Setup (highlighted), Syslog Transfer, Shutdown, Initialization, System Status, and Logout. The main content area is titled 'Maintenance' and contains a 'HELP' button. Under 'Status LCD Setup', there are two sections: 'LCD Display Items' and 'Flip Display Items'. The 'LCD Display Items' section has four rows, each with a checkbox and a label: 'Host Name / IP Address' (checked), 'HDD Usage Amount' (checked), 'Disk Mode' (checked), and 'Time' (checked). The 'Flip Display Items' section has two rows: 'Flip Display Items' with radio buttons for 'Enable' (selected) and 'Disable', and 'LCD Back Light Setting' with a dropdown menu set to 'Dim Down' and a range of options from 1 to 5. Below this is the 'LED Settings' section with four rows: 'LED' with a dropdown set to 'Dimmer' and a range of options from 1 to 5; 'LED Synchronization' with radio buttons for 'Enable' (selected) and 'Disable'; 'LED (Sleep)' with a dropdown set to 'Dimmer' and a range of options from 1 to 4; and 'LED Wakeup Time' and 'LED Sleep Time', both with a dropdown set to '5' and a radio button for 'Clock'. An 'Apply' button is at the bottom of the settings area. The footer of the interface reads 'Copyright 2002-2007 (C) BUFFALO INC. All Rights Reserved'.

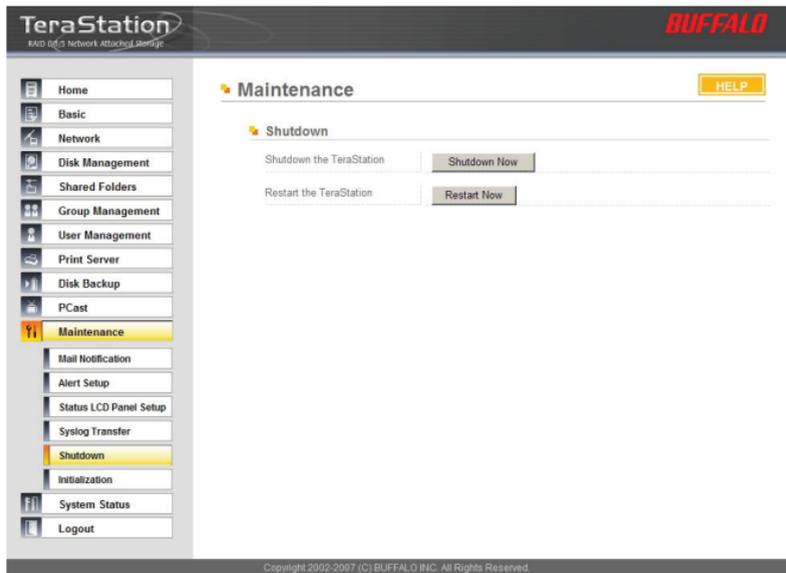
The Status LCD Setup allows configuration for the LCD display on the front of TeraStation. Please select the type of information that the front panel should display from the *LCD Display Items*. *Automatically Switch LCD Items* tells the TeraStation to cycle through the selected display items every 10 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)

The screenshot shows the TeraStation web interface. The top left corner displays 'TeraStation' and '4400 02-1 Network Attached Storage'. The top right corner features the 'BUFFALO' logo. A left-hand navigation menu lists various settings categories: Home, Basic, Network, Disk Management, Shared Folders, Group Management, User Management, Print Server, Disk Backup, PCast, Maintenance (highlighted in yellow), Mail Notification, Alert Setup, Status LCD Panel Setup, Syslog Transfer (highlighted in yellow), Shutdown, Initialization, System Status, and Logout. The main content area is titled 'Maintenance' and contains a 'Syslog Transfer' section. This section includes a radio button for 'Syslog Transfer' set to 'Enable', a text input field for 'Syslog Server IP Address', and two checkboxes for 'Log Information': 'System Log' and 'File Log (SMB)'. An 'Apply' button is located at the bottom of the settings area. A 'HELP' button is visible in the top right of the main content area. The footer of the interface reads 'Copyright 2002-2007 (C) BUFFALO 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)



The screenshot displays the TeraStation web interface. The top left corner features the 'TeraStation' logo with the tagline 'RAID 0/5 Network Attached Storage' and the 'BUFFALO' logo on the right. A vertical navigation menu on the left lists various settings: Home, Basic, Network, Disk Management, Shared Folders, Group Management, User Management, Print Server, Disk Backup, PCast, Maintenance (highlighted in yellow), Mail Notification, Alert Setup, Status LCD Panel Setup, Syslog Transfer, Shutdown (highlighted in yellow), Initialization, System Status, and Logout. The main content area is titled 'Maintenance' and contains a 'HELP' button. Under the 'Shutdown' sub-section, there are two rows of controls: 'Shutdown the TeraStation' with a 'Shutdown Now' button, and 'Restart the TeraStation' with a 'Restart Now' button. A copyright notice at the bottom reads 'Copyright 2002-2007 (C) BUFFALO INC. All Rights Reserved.'

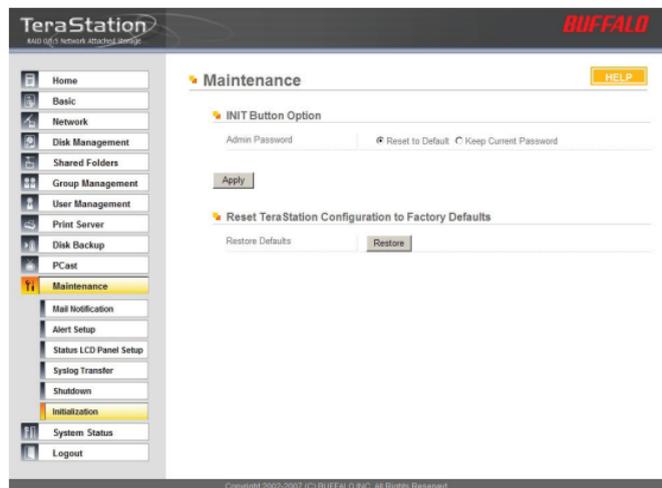
From the *Shutdown* page, press *Apply* to shutdown TeraStation. This has the same function as holding down the power button on the front of TeraStation, but may be done remotely. Turning on the TeraStation after a shutdown requires a physical button push on the front of TeraStation. The *Restart Now* button simply reboots the TeraStation, bringing it back to functionality after about 120 seconds.

## Maintenance (Initialization)

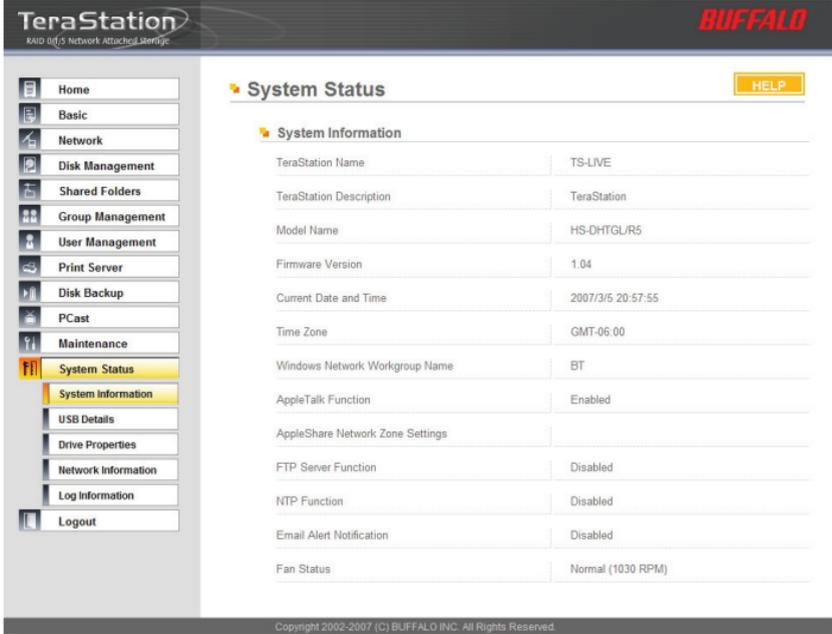
Initialization is a reset procedure that restores all settings back to the default, out of box, configuration. All configuration, users, groups, and backup jobs are lost, but actual data and shares on the hard are NOT lost. If you want all data to be erased, reformat the drive.

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. *Start Disk Formatting* begins a complete disk format that will erase all information on the TeraStation's internal hard drives. This cannot be undone.



# System Status (System Information)



The screenshot displays the TeraStation web interface. The left sidebar contains a navigation menu with the following items: Home, Basic, Network, Disk Management, Shared Folders, Group Management, User Management, Print Server, Disk Backup, PCast, Maintenance, System Status (highlighted), System Information (highlighted), USB Details, Drive Properties, Network Information, Log Information, and Logout. The main content area is titled 'System Status' and includes a 'HELP' button. Under the 'System Information' section, the following details are listed:

TeraStation Name	TS-LIVE
TeraStation Description	TeraStation
Model Name	HS-DHTGL/R5
Firmware Version	1.04
Current Date and Time	2007/3/5 20:57:55
Time Zone	GMT-06:00
Windows Network Workgroup Name	BT
AppleTalk Function	Enabled
AppleShare Network Zone Settings	
FTP Server Function	Disabled
NTP Function	Disabled
Email Alert Notification	Disabled
Fan Status	Normal (1030 RPM)

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This page shows you the System Information for your TeraStation.

Firmware updates are occasionally available from [www.buffalotech.com](http://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)

The screenshot shows the Buffalo TeraStation web management interface. The left sidebar contains a navigation menu with the following items: Home, Basic, Network, Disk Management, Shared Folders, Group Management, User Management, Print Server, Disk Backup, PCast, Maintenance, System Status (highlighted), System Information, USB Details (highlighted), Drive Properties, Network Information, Log Information, and Logout. The main content area is titled 'System Status' and includes a 'HELP' button. Underneath, there is a section for 'USB Details' which contains a table with the following data:

USB Class	Manufacturer	Device Name	USB 2.0/1.1
			USB 2.0/1.1

At the bottom of the interface, a copyright notice reads: Copyright 2002-2007 (C) BUFFALO INC. All Rights Reserved.

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.

The screenshot displays the 'System Status' page of a TeraStation. The left sidebar contains a navigation menu with options: Home, Basic, Network, Disk Management, Shared Folders, Group Management, User Management, Print Server, Disk Backup, PCast, Maintenance, System Status (highlighted), System Information, USB Details, Drive Properties (highlighted), Network Information, Log Information, and Logout. The main content area is titled 'System Status' and includes a 'HELP' button. It is divided into three sections: RAID Array Information, Disk Information, and USB Disk Information.

**RAID Array Information**

RAID Array 1	Status	Normal
	RAID Mode	RAID5
	Disk Structure	Disk 1, 2, 3, 4
	Total Capacity	729,396,352 bytes (695.61 GB)
	Amount Used	4,936 bytes (0.00 GB)
	Percent Used	0.00 %
	File Format	XFS
RAID Array 2	Status	Not Configured

**Disk Information**

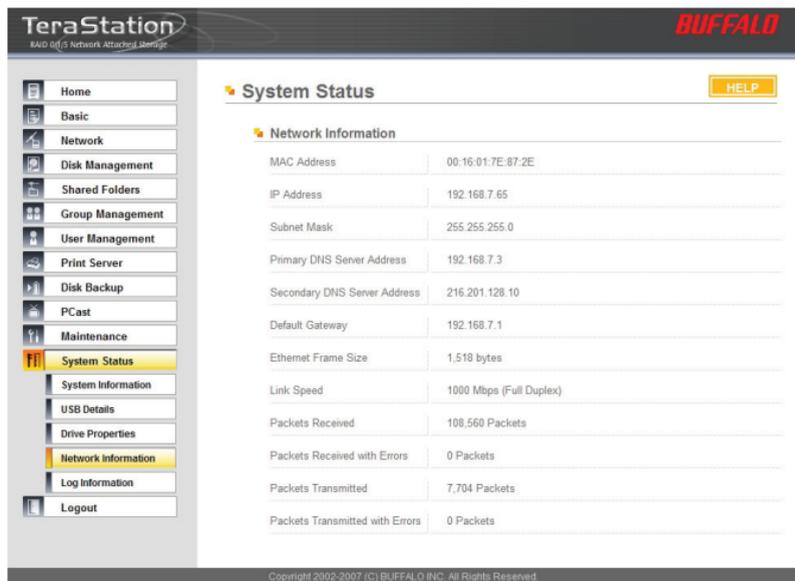
Disk 1	Status	RAID Array 1
	Unit Name	WD2500JS-00NCB1
	Total Capacity	244,198,584 bytes (232.89 GB)
Disk 2	Status	RAID Array 1
	Unit Name	WD2500JS-00NCB1
	Total Capacity	244,198,584 bytes (232.89 GB)
Disk 3	Status	RAID Array 1
	Unit Name	WD2500JS-00NCB1
	Total Capacity	244,198,584 bytes (232.89 GB)
Disk 4	Status	RAID Array 1
	Unit Name	WD2500JS-00NCB1
	Total Capacity	244,198,584 bytes (232.89 GB)

**USB Disk Information**

USB Disk 1	Status	Not Detected
USB Disk 2	Status	Not Detected

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## System Status (Network Information)



The screenshot displays the TeraStation web interface. The top header features the 'TeraStation' logo with the tagline 'RAID 0/1/5 Network Attached Storage' and the 'BUFFALO' brand name. A navigation menu on the left lists various system functions, with 'System Status' highlighted. The main content area is titled 'System Status' and includes a 'HELP' button. Under the 'Network Information' section, the following details are listed:

MAC Address	00:16:01:7E:87:2E
IP Address	192.168.7.65
Subnet Mask	255.255.255.0
Primary DNS Server Address	192.168.7.3
Secondary DNS Server Address	216.201.128.10
Default Gateway	192.168.7.1
Ethernet Frame Size	1,518 bytes
Link Speed	1000 Mbps (Full Duplex)
Packets Received	108,560 Packets
Packets Received with Errors	0 Packets
Packets Transmitted	7,704 Packets
Packets Transmitted with Errors	0 Packets

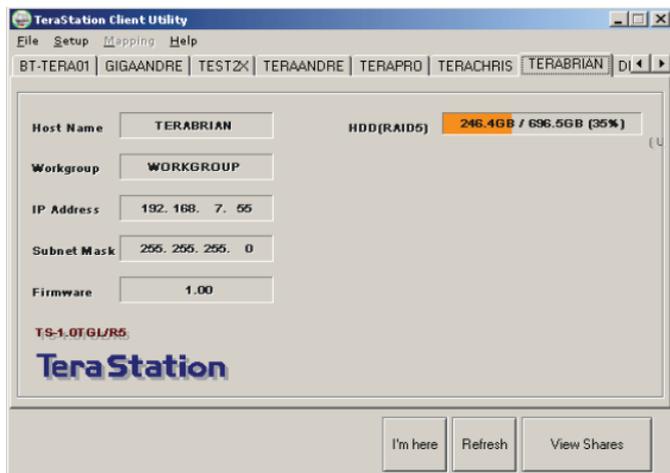
Copyright © 2002-2007 (C) BUFFALO, INC. All Rights Reserved.

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

## Log Information

The screenshot displays the TeraStation web interface. On the left is a navigation sidebar with menu items: Home, Basic, Network, Disk Management, Shared Folders, Group Management, User Management, Disk Backup, Maintenance, System Status (highlighted), System Information, USB Details, Drive Properties, Network Information, Log Information (highlighted), and Logout. The main content area is titled 'System Status' and contains a 'System Log' section. This section has a 'Log Type' dropdown menu set to 'System Log' and a 'Save' button. A 'File Download' dialog box is overlaid on the page, asking 'Do you want to open or save this file?'. The dialog shows file details: Name: 001601990006\_system.txt, Type: Text Document, and From: 192.168.7.87. It includes 'Open', 'Save', and 'Cancel' buttons. A warning message at the bottom of the dialog states: 'While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save the file. [What is the risk?](#)'

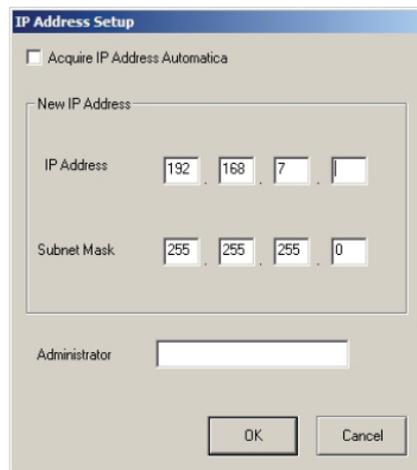
This page lets you save or display system log information. Choose the log you want from the *Log Type* dropdown and click *Save*. The dialog will let you save or display (“Open”) the logfile.



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 . . .

## IP Address Setup



The screenshot shows a dialog box titled "IP Address Setup". At the top, there is a checkbox labeled "Acquire IP Address Automatica" which is currently unchecked. Below this, there is a section titled "New IP Address" containing two rows of input fields. The first row is labeled "IP Address" and contains four input boxes with the values "192", "168", "7", and an empty box. The second row is labeled "Subnet Mask" and contains four input boxes with the values "255", "255", "255", and "0". Below the "New IP Address" section, there is a label "Administrator" followed by a single-line text input field. At the bottom of the dialog, there are two buttons: "OK" and "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.

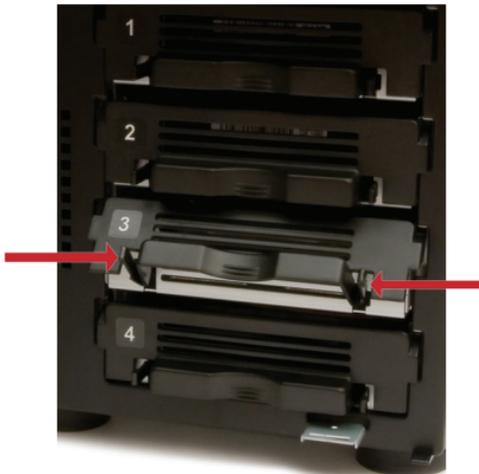
If TeraStation encounters a disk error, it will be reported in the *TeraStation status* on the top of any of the Web-Based configuration screens. Run a Disk Scan in the event of this error. If that does not resolve the problem, a *format* is recommended. Formatting the drive will delete all of the data 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 76 and 77 for Technical Support contact information).

## DIAG LCD Codes:

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

# 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.

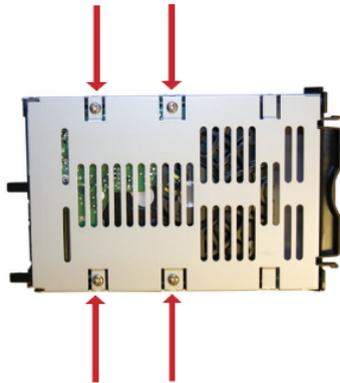


Lower the drive carefully to the work surface.



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.

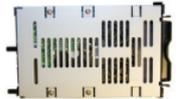
Install a new hard drive by doing the same steps in reverse order:

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](mailto: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](mailto: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

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**4030 W. Braker Lane Suite 120**  
**Austin, TX 78759**  
**Attn. GPL Department**

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**Free Zone East, Shannon, Co. Clare**  
**Ireland**  
**Attn. GPL Department**

Within the envelope containing the self addressed padded CD shipping envelope, please include a bank draft or money order for €20 (Euro) (Made out to: Buffalo Technology) to cover our handling fee, postage and CD preparation. The CD-R should have the name of the product and revision number clearly written on the actual CD-R (not on the insert).

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