User Manual LinkStation Pro Shared Network Storage



Introduction

Congratulations on your new LinkStation Pro! 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 LinkStation. 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 56 and 57.

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Connecting your LinkStation

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

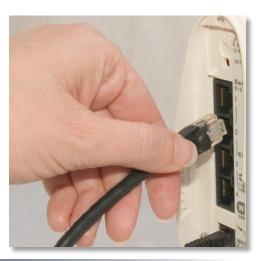


Connect your Cables



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

Plug the *power cord* into a 120 volt wall socket or surge protecter.



Powering up



Press the *power button* on the front panel. LEDs will blink as your LinkStation boots up.

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

Setup Notes

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

Verify that the *LINK/ACT LED* on the front of LinkStation is lit (see page 6's picture). If it's lit, go to page 8 to continue setting up LinkStation. 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 LinkStation 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 55 and 56 for technical support contact information.

Insert the LinkNavigator 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:\setup.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 *LinkNavigator* to begin installation.





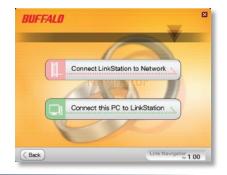
LinkNavigator Setup



Press the Begin Installation button to begin.

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

Click Next to step through the installation.



LinkNavigator Setup



Continue pressing Next to step through the installation.

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



LinkNavigator Setup is Complete!



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



Clicking *Shortcut for LinkStation* takes you directly to the folders on your LinkStation. *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 LinkStation's client utility. Turn to page 51 for more on using the NAS Navigator client utility.

To Access LinkStation Data from a PC:

Your LinkStation uses "shares" (folders) to hold data. A share called "share" is already configured on your LinkStation, and you can create additional shares on page 29. To start using your LinkStation, you can either click on the *Shortcut for LinkStation* on your desktop, or you may just use *drive L* in My Computer, which setup has mapped to the default share in your LinkStation.





Using your LinkStation with a Mac



After installing the LinkNavigator 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 LinkStation's client utility.

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|--------------------|----------|------------------------|----------------------------|-----|
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| C Scool | | | | - 1 |
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| 3 10.1.0 | | | uffe | |
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| Mill Income | - | 125 | 125 | |
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| + max | | | | |
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| - | | plines, total diseases | | |

Clicking *Share* opens the main folder on your LinkStation. You can put files and folders in *Share* as though it were any other hard drive connected to your computer. You may add additional shares to your LinkStation on page 30.



The *NAS Navigator* icon opens the LinkStation's client utility. See pages 21 and 55 for more on using the NAS Navigator client utility.

Accessing LinkStation Data from a Mac

You can manually add LinkStation 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 LinkStation's IP address in the form *smb:// ipaddress* (where "ipaddress" is your LinkStation's IP address), and click Connect.

If you don't know your LinkStation's IP address, see page 16.

Accessing LinkStation Data from a Mac

Select *Guest* and click on *Connect*. Note: If you have configured share permissions on your LinkStation, 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 LinkStation.

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





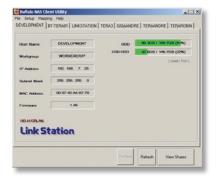


Accessing LinkStation Data from a Mac

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

One simple method is to use the NASnavigator Client Utility (included on your CD) to find your LinkStation(s). Just click on the tab for your LinkStation and you'll be able to read its IP address. See page 52 for more on the LinkStation client utility.

You can always get the LinkStation'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 LinkStation's IP address.





LinkStation Expansion

LinkStation Pro has two USB 2.0 ports on the rear. These ports can be used for adding external USB Hard Drives. LinkStation 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 LinkStation Pro. To connect a USB hard drive to your LinkStation, simply plug it into one of the USB ports.

Once your USB hard drive is connected, see page 27 for configuring your LinkStation to use it. Page 29 will show you how to reformat the USB Hard Drive. Page 39 and 40 show you how to set up LinkStation to backup to a USB Hard Drive.

LinkStation Layout

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

Link/Act LED – The Link/Act LED glows green when the LinkStation is connectied to a network. It blinks when the LinkStation is sending or receiving data.

Info LED – The Info LED blinks when you have a message waiting for you in the client utility.

Diag LED – The Diagnostic LED blinks to signal abnormal operation. See page 53 for a list of Diagnostic LED codes.



LinkStation Layout

Init button – The red Init button allows you to return your LinkStation to factory defaults.

10/100/1000 Mbps Ethernet Port – Use this port to connect your LinkStation 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 – LinkStation offers two USB 2.0/1.1 ports for adding external drives. Please see the *LinkStation Expansion* section on page 16 to learn more about using LinkStation's USB Ports.



The Configuration GUI



| File Setup Mapping Help DEV Configuration Settings STATION TERA3 TEST2X GIGAANDRE TERAANDRE * Change IP Address Startup as Taktray mode HDD Sk 6GB / 226. IGB (17%) Workgroup WORKGROUP (Used/Full) IP Address 192. 168. 7. 72 Submit Mask 255. 255. 25 0 MAC Address 00:00:051:82:16 Firmware 1.00 | 😹 Buffalo NAS Clie | nt Utility | | | |
|---|--------------------|------------------|--------------------|------------|-------------|
| Change IP Address ✓ Startup as Task/Tay mode Host Name LINISSTATION Workgroup WORKSROUP IP Address 192. 168. 7. 72 Submet Mask 255. 256. 265. 0 MAC Address 00:00:00:51:82:16 Firmware 1.00 Lis-2500L Link Station | File Setup Mappin | | | | |
| Workgroup WORKGROUP IP Ashress 192 168. 7. 72 Submet Mask 255. 255. 0 MAC Ashress 00:00:051:62:16 Firmware 1.00 UseScool, Link Station | Change IP A | ddress | N TERA3 TEST2X | GIGAANDRE | |
| IP Address 152.168.7.72 Subnet Mask 255.256.00 MAC Address 00:00:0051:82:16 Firmware 1.00 L9-2506L Link Station | Host Name | LINKSTATION | HDD | 38.6GB / 2 | |
| Subret Mask 255, 255, 265, 0 MAC Address 00:00:051:82:16 Firmware 1.00 | Workgroup | WORKGROUP | | |) |
| MAC Address 00:00:05:182:16 Firmware 1:00 LS:2506L Link Station | IP Address | 192. 168. 7. 72 | | | |
| Firmware 1.00 LS-2506L Link Station | Subnet Mask | 255, 255, 255, 0 | | | |
| Link Station | MAC Address | | | | |
| Link Station | Firmware | 1.00 | | | |
| | | | | | |
| I'm here Refresh View Shares | Link St | ation | | | |
| | | | I'm here | Refresh | View Shares |

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

If you have a PC running the Buffalo NAS Client Utility, you can get to the Configuration GUI 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.

| Link Station | | BUFFALO |
|--------------|--------------------------------------|----------|
| | s Login | 7HELP |
| | 🔓 Please insert your user name and p | assword. |
| | User Name | |
| | Password | |
| | Login | |
| | | |

User name: *admin* Password: *password*

See page 36 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 LinkStation's IP Address is in the same range as that of your PC.

NOTE: Page 24 shows how to enable or disable DHCP, or configure the LinkStation with a Static IP Address.

Advanced Settings - Home

Welcome to *Advanced Settings*, the configuration GUI for the LinkStation! Bookmark this page in your browser so it can be easily accessed for future configuration changes. If the LinkStation's IP Address changes, you will need to recreate the link. You can also get here by typing *http://LinkStation_Name* into a Web browser, where LinkStation_Name is the name of your LinkStation (page 23).

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 LinkStation'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 LinkStation, clicking *I'm here!* at the bottom left will cause it to beep, making it easier to find.

| | Home | s Home | | 7HELP |
|----|------------------|-----------------------|----------------------------------|-------|
| | Basic | | | |
| 4 | Network | Sa LinkStation Name | LINKSTATION2 | |
| 2 | Disk Management | Se IP Address | 152.168.7.72 | |
| ъ | Shared Folders | Surrent Date and Time | 2022/3/1 22:54:13 | |
| 22 | Group Management | | | |
| 2 | User Managoment | HDD Space Used | Disk 1 0.1 G8 / 226.1 G8 (0.1 %) | |
| 1 | Disk Backup | | | |
| Ť | Maintenance | | | |
| £Π | System Status | | | |
| | Logout | | | |

Basic

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

| .ir | kStation | | BUFFALL |
|----------------|------------------|-------------------------------|--|
| | Kone | • Basic | 7HELP |
| ъ | Basic | | |
| 4 | Nutwork | Hostname Setup | |
| 2 | Disk Management | Leis/Station Historame | UNKSTATION2 |
| à | Shared Folders | Letification Desception | LinkStation |
| 22 | Group Management | | Contraction of the second seco |
| 24 24 24 | User Management | Solute and Time Setup | |
| • | Disk Backup | Date | 2022 Year D Kleeth T Day |
| 2i | Haletonance | Title | And a second |
| h. | System Status | 104 | 22 Hours DA Mires 28 Sacs |
| а. | Logout | | Use Local Time |
| | | Tana Zona | CELT OF DO |
| | | NTP Settings | |
| | | NTP Same | C Enable & Deable |
| | | RTP Sever Address | |
| | | | E Use default NTP server into plumieed ad pt |
| | | BTP Synchronization Frequency | Once a day |
| | | 💊 Text Display Settings | |
| | | Display Language | English Englisch # 8 |
| | | Windows Client Language | (CP437 (United States, Canada) |
| | | Apply | |

Network (IP Address Properties)

| Home | Network | | | 7HELP |
|-----------------------|------------------------------|-----------------------|---|-------|
| Basic | | | | |
| Network | IP Address Properties | | | |
| IP Address Properties | Automatic via DHCP | @ Cnable C Disable | | |
| Workgroup / Domain | P Address | 192 193 7 72 | | |
| Disk Manogement | | | | |
| Shared Folders | Subret Mask | 266 266 266 9 | | |
| Group Management | Default Gateway Address | | | |
| User Management | Primary DNS Server Address | 192.153.7.3 | | |
| Disk Backup | | a massailt and the | | |
| Maintenance | Secondary DNS Server Address | 216.221 128.10 | | |
| System Status | | | | |
| Legaut | Ethernet Frame Size Propert | les | | |
| | Ethemet Frame Size | 1,513 bytes (Default) | - | |

In most networks, LinkStation 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 LinkStation'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)

| LinkStation | | | BUFFALO |
|----------------------|---|------------------------------|---------------------------|
| Home | • Network | | 746.0 |
| Basic Ratereck | Se Workgroup and Domain Proj | perties | |
| P Astress Properties | Rimansk Type | # Wongsup Chil Danair C | ActiveOvectory |
| Workgroup / Domain | Weignup Name | WORKOROLP | |
| Disk Management | WHE Server D Address | | |
| Shared Folders | WINDS Server ID Address | | |
| Croop Management | S Authentication Setup | | |
| Boor Management | | The second second second | |
| Disk Deckup | Autoritication Type | Delegate Activity to Lendlo | la an |
| Ti Malatenance | | C Driegde Activity to Estern | SMB Server |
| System Status | | E Das Windows Doman Canton | for as Authenticator Same |
| Lopert | | E Adoratic User Registration | |
| | | E Automotion Shared Folder | |
| | Authentication Server Name or IP Address | [| |
| | Authentication Shared Palder Name | [] | |
| | Addis | | |

If you are unfamiliar with Domain/Active Directory networking, then leave the *Network Type* and *Workgroup Name* set to *Workgroup*.

To make your LinkStation a member of a workgroup or domain, enter the appropriate information into the fields on this page and click *Apply*. Only select *NT Domain* if you have a Windows NT Server Domain Controller on your network. Only select *Active Directory* if you have an Active Directory server on your network.

NOTE: If using *NT Domain*, the LinkStation must be added as a member computer in the Domain Server.

NT Domain & Active Directory Authentication integrate the LinkStation Pro with Windows NT Domain and Active Directory Servers. The LinkStation Pro participates as a member device in the NT Domain and Active Directory networks, allowing the LinkStation to use Users and Groups that reside on the Domain or Active Directory System. If Active Directory is used, then the LinkStation will automatically receive update information from the domain controller(s). To configure the LinkStation Pro on an Active Directory network, you must have the Domain Administrator login credentials. To configure LinkStation Pro in a Windows NT Domain or Active Directory environment, select the appropriate Network Type and enter the Domain Name and Domain Controller into the appropriate fields. In an Active Directory environment, fill out the remaining fields. The Authentication Setup fields will be automatically filled out, so no input is needed there. Once you have finished, press *Apply*.

Disk Management (Drive Properties)

This page shows the properties for the main drive in your LinkStation Pro. If you have any USB hard drives plugged into the linkstation, their properties will appear here as well.

| ink Station | | | | BUFFALO |
|-------------------|------------------|----------------|--------------------|---------|
| E Home | Disk Manage | ement | | ?HELP |
| Basic | | | | |
| Ketwork | 🤏 Disk Informati | ion | | |
| 2 Disk Management | Dak 1 | Status | Standard Mode | |
| Drive Properties | | Unit Name | WD2500JS-22MHB0 | |
| USB Settings | | | | |
| Disk Check | | Total Capacity | 237,042,460 kbytes | |
| Disk Format | | Amount Used | 40,480,432 kbytes | |
| Shared Folders | | Percent Used | 17.08 % | |
| Group Management | | File Format | EXT3 | |
| User Management | | File Format | EX13 | |
| Disk Backup | | | | |
| 11 Maintenance | 🎍 USB Disk Info | rmation | | |
| System Status | USB Disk 1 | Status | Not Detected | |
| Logout | | | | |
| | USB Disk 2 | Status | Not Detected | |

Disk Management (USB hard drives)

| ink Station | | | BUFFALO |
|------------------|----------------|---------------|----------|
| Beter | Disk Manageme | nt | THELP |
| Besic | | | |
| Network | USB Disk Setup | | |
| Disk Management | Name | Appignod Dipk | Copacity |
| Drive Properties | USE Disk 1 | Not Assigned | |
| USB Settings | USE Dex 2 | | |
| Disk Check | USB Disk 2 | Not Adagned | |
| Disk Format | | | |
| Shared Folders | | | |
| Group Management | | | |
| User Management | | | |
| Disk Blackup | | | |
| Maintenance | | | |
| System Status | | | |
| Logout | | | |

From here you can see your USB hard drives' setup information. If the hard drives' information isn't displayed properly, try restarting your USB hard drives and then restarting your LinkStation. Some USB hard drives must be reformatted from within LinkStation before they can be assigned shares. Select *Disk Format* from the left-side menu to format your USB hard disk(s).

Disk Management (Disk Check)

| ink Station | | BUFFALO |
|------------------|---|--------------------------------|
| Home | Disk Management | THELP |
| Basic Network | S Disk Check | |
| Disk Management | Tarpet Dak 1 . | |
| Drive Properties | C Delette MacOS dede | and advancements |
| USD Settings | C. 0000 10000 000 | and the state of |
| Disk Check | Se Warning | |
| Disk Format | | |
| Shared Folders | Prior to performing a disk check, confirm that this LinkStation is LinkStation | sot a backup target of another |
| Group Monagement | Backaps cannot be performed on a LinkOlation while in a Diek C | week processs |
| User Management | | |
| Disk Backup | Select Tarpet Carcel | |
| Baistenance | | |
| System Status | | |
| Logent | | |

Disk check checks any of your hard drives for errors. To use disk check, select the disk that you want to check from the target pulldown and click *Select Target*.

Disk Management (Disk Format)

| LinkStation | | | BUFFALO |
|------------------|---|--|---------------|
| Home | Disk Managemen | ıt | THELP |
| Basic Network | Se Format | | |
| Disk Management | Target | Disk 1 - | |
| Drive Properties | File System | XI S(Debud) # | |
| USD Settings | | | |
| Disk Chuck | Se Warning | | |
| Clask Format | | | |
| Shared Folders | Prior to fermating, certifiers The backets more and fail | that this LinkStation is not a backup target of anoth if it attampts to faunch while the target LinkStation | a LinkStation |
| Group Management | Please make ours pry sch | sculed backups have completed. | |
| Uber Management | | | |
| Clink Blockup | Soloct Target Cancel | 1 | |
| Maintenance | | | |
| System Status | | | |
| Logout | | | |

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

| | | BUFFALO |
|----------------------|----------------------|---------------------------|
| E Home | Shared Folders | 7HELP |
| Basic | Shared Folders Setup | |
| Disk Management | Disk or Array | Shared Folder Name |
| Shared Folders | Disk 1 | Shared Folder Description |
| Shared Folders Setup | | LinkStation folder |
| Service Setup | | |
| Group Management | Add Delete | |
| 8 User Management | Add Lielete | |
| Disk Backup | | |
| 11 Maintenance | | |
| FII System Status | | |
| Logout | | |

To begin setting up shares on your LinkStation, select *Shared Folders* from the left side menu, and then click the *Add* button under *Shared Folders Setup*.

To delete a share or shares, check the checkbox next to the shares 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.

Adding a new Shared Folder

| | Shared Folders | | 21-51 |
|--------------------|---------------------------|-------------------------|--------------------------|
| nic | Add New Shared Folder | | |
| twork | | | |
| a Management | Ghanul Folder Name | | |
| uned Folders | Shared Folder Description | | |
| ared Fakiers Setup | Volume | Dak 1 | |
| rvice Setup | | | |
| oup Management | Shared Felder Septert | P Vandows P Apple C r | TF Cosh Deckup |
| er Management | Shand Folder Atobutes | C Read Only # Haud / We | ta . |
| sk Backup | Brock Rr | WEnglin C Double | |
| eletenance | | a pignal of pignal | |
| stom Status | Remote Eachup Passecod | | |
| gout | 20 St. 12 St. 1977 | | |
| | Access Restrictions | | |
| | Access Restrictions | C Enable W Deable | |
| | Reat/Write | Read Celly | All Coups / Users |
| | On ap | 10 III | atria garol Misers |
| | User | | at at a |

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* turns on AppleTalk, letting you use your LinkStation with older Macs. Note that Appletalk files are limited to 2GB maximum filesize and 32 characters for filenames. If a folder with AppleTalk

on is accessed from a modern OS through smb, these limitations will not apply.

Remote Backup Password will set a password on this share for other LinkStations 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 LinkStations trying to access this share for backup tasks.

Shared Folders (Access restrictions)

| 9110 | Shared Folder | rs | 7112 |
|---------------------|-----------------------|------------------------|--|
| asic | | | |
| etwork. | Search Add New Shares | d Folder | |
| ick Managomont | Shared Folder Na | na navi toldor | - |
| hared Folders | Shared Folder De | scription Free tother | |
| hared Feiders Setup | Volume | Disk 1 | |
| ervice Setup | | | |
| roup Management | Shared Folder Sa | port PWedges PAg | ole FIP FDak Beckup |
| ser Management | Shared Folder Att | thates C Read Only # 1 | load / Write |
| sk Backup | | | |
| intenance | Rocycle IIIm | # Erable C Disa | ble . |
| stom Status | Remote Backup F | beeves | |
| geut | | | |
| | Access Restrict | ions | |
| | Access Restrictio | m #Enable C Dise | bie |
| | Read | I Write Read Only | All Oroups / User |
| | Getup | s) hdeners | alman g.etd bbrook |
| | | | |
| | User | e 0 | admin admin |

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 34 and 35.

Shared Folders (Service Setup)



To allow FTP Access to LinkStation, 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 LinkStation. The network administrator of your network may need to enable traffic on port 21 to the LinkStation for FTP to work over the Internet.

Click the Apply button to set up these services.

Group Management

| Link Station | \sim | BUFFALO |
|------------------|------------------|-------------------------------|
| Norma | Sroup Management | THELP |
| Banic | | |
| Setwork | Scoup Settings | |
| Olok Management | E Group Name | |
| Shared Folders | atria | Group Dependition |
| Group Management | 2010 | Collect Administrative Design |
| User Management | aind | |
| Disk Beckup | pro | Detter & Garren Group |
| Maintenance | Munert | |
| System Status | | Estard System Decip |
| Legout | | |
| | AM Clease | |

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 LinkStation, click *Add*.

| LinkStatic | p 2 | | BUFFALO |
|------------------|--|-------------------|--------------------------------|
| Home | Group Managemen | nt | THELP |
| Basic Betwork | S Add New Group | | |
| Disk Monogement | Group Name | employees | |
| Shared Folders | Group Description | these pospie | |
| Group Managemen | Constitution of the second seco | from here a | |
| User Banagement | Member Users | | |
| Disk Backap | C User Name | | |
| Haintenance | - | | User Description |
| System Status | E abrit | | f for administering the audion |
| Logost | E 9.44 | Gare sicks | an advantage of the states. |
| | | Built in prosunt? | or puest access to the system |
| | Apply Cancel | | |

User Management

| LinkStation | | BUFFALO |
|-------------------|-----------------------------------|--|
| Hame | User Management | THELP |
| Basic | and the second second | |
| Ketwork | Local User Settings | |
| Disk Banagement | E User Name | |
| Shared Folders | FE atros | User Description |
| Croup Management | 11 Mar 2 (27) 11 | Builter according administering the system |
| 2 User Management | 9.442 | |
| Diek Beckup | | Builtin account for guest access to the system |
| 17 Maintenanco | | |
| FI System Status | Add Local User Die ine Local User | |
| Legout | | |

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 LinkStation 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.

A Domain User List will be displayed if the LinkStation Pro is a member of a Domain or Active Directory environment.

LinkStation 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*.

| Link Station | | | BUFFALO |
|--------------------|-------------------|------|---------|
| Hame | User Management | | THELP |
| tiasic 6 | | | |
| Ketwork | Se Add Local User | | |
| Disk Management | User Name | yaba | |
| Shared Folders | Pacoword | | - |
| Group Management | | | |
| 2 User Management | Confirm Password | | |
| Disk Backup | User Description | me | |
| 11 Maintenance | | | |
| Fill System Status | Apply Cancel | | |
| Logout | | | |

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 LinkStation, or problems accessing shared folders may occur.

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

| LinkStation | | | BUFFALD |
|-------------------|------------------|-------|---------|
| Home | User Management | | 7HEUP |
| Basic Network | Selft Local User | | |
| Disk Managoment | User Name | robin | |
| Shared Folders | Password | | |
| Group Nanagoment | | | |
| S User Management | Confirm Password | | |
| Disk Backup | User Description | a te | |
| 1/ Maintenance | | | |
| System Statue | Apply Cancel | | |
| Logout | | | |

Accessing Multiple Shares from a single PC



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 LinkStation. 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, 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!

| Connect As | × |
|------------|---|
| | vill connect to the network folder as nmect as another user, enter their user vord below. |
| 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 both 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 Backup | | | 7HELP |
|-------------------|-----------------|-------------|--------------------|-------|
| Basic Network | Se Disk Backup | | | |
| Disk Management | Job Namber | Scheckle | Status | |
| Shared Folders | 1 out 117 | | Not Created | |
| Group Management | FTD an 2 | | Not Created | |
| User Management | ME and 3 | | Not Created | |
| Cisk Backup | | | | |
| Link Station List | 1 465 237 | | Not Created | |
| Add LinkStellon | Lob 5 | | Not Created | |
| Maintenance | ê cot, 🖽 | | Not Created | |
| System Status | 1 intel 1773 | | Not Created | |
| Logout | I dot. CITA | | Nat Created | |
| | Search for a Ba | ackup Desti | nation by Password | |
| | Personal to Se | urth | | |

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

Disk Backup (Edit Backup Job)

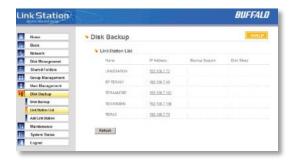
| Job Number | Job 1 | |
|---------------------|---------------------------------|--|
| Backup Job Schedule | | tely C Every day C Every week |
| Backup Date | Sunday 🗵 | |
| Backup Time | 🛛 💌 Hour 💷 Minute | |
| Encrypted Transfer | © Enable @ Disable | |
| Compressed Transfer | C Enable C Disable | |
| Overwrite Backup | C Enable C Disable | |
| | E Differential Backups | |
| Apply Cancel | Clear Job | |
| Backup Source | and Destination Folde | FS tion Backup Shared Folder |
| | | |
| | d destination folder for backup | *********************************** |
| media | No Av | ailable Destination Backup Fold |
| | | |

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 LinkStation, or another LinkStation 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.

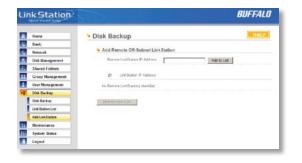
Disk Backup (LinkStation List)



The LinkStation list shows other LinkStations in your network that you can configure network backups to.

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

Disk Backup (Add LinkStation)



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

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

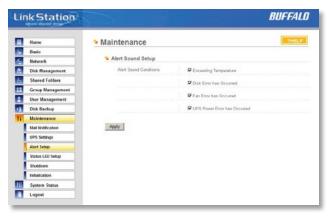
Maintenance (Notification)

| Home | Maintenance | | 7HELF |
|-------------------|--|--------------------------|--------|
| Basic | | | |
| Network | Mail Notification | | |
| Disk Monagement | Mai Notification | C Enable & Doable | |
| Shared Felders | SMITP Sever Address | | |
| Group Management | Extent | | Ostat |
| User Management | | LenStation Status Report | LIVER. |
| Disk Backup | Recipient Mail Address 1 | | |
| Maintenance | Recipient Mail Address 2 | | |
| Mail Notification | Recipient Mail Address 3 | | |
| UPS Settings | | | |
| Alert Setup | Recipiert Mail Address & | | |
| Statut LEO Solao | Recipiert Mail Actives 6 | | |
| Shutterns | Notification Trigger | FDD Status Report | |
| Initialization | and a second sec | | |
| System Status | | R Oak Fail | |
| Lopout | | R fas fal | |
| | | 🕅 Conclete Blockup | |
| | FCD Status Sending Time | 0 🗷 e'dack | |

If your LinkStation 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. "LinkStation 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 LinkStation 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 LED Settings)

| Link Station | | BUFFALD |
|-------------------|---------------------|--------------------------------------|
| Home | Maintenance | 7HELP |
| Basic | LED Settings | |
| Network. | | |
| Disk Management | LED | Denmer << C1 C2 C3 C4 @ 5 >> Engiter |
| Shared Folders | LED Synchronization | C Use IF Do not use |
| Group Management | LED (Sleep) | |
| 2 User Management | CED (overap) | Dimmer << 01 02 03 04 >> Bighter |
| Disk Backup | LED wakeup time | 0 💌 Time |
| Yi Maintenance | LED sleep time | 0 🗷 Time |
| Mai Notification | | |
| UPS Settings | Apply | |
| Alert Setup | | |
| Status LED Setup | | |
| Shutdown | | |
| Initialization | | |
| FII System Status | | |
| Logout | | |

Adjust the brightness of the LEDs on your LinkStation's front panel here. Press *Apply* to update the settings.

Maintenance (Shutdown)

| Link Station | | BUFFALO |
|---|---|---------|
| Home Basic | Maintenance Shutdown | 7HELP |
| Network Disk Management Shared Folders | Shutdown LinkStation Apply Restart the LinkStation Restart Now | |
| Group Management User Management Disk Backup | | |
| Maintenance Mal Notification UPS Settings | | |
| Alert Setup Status LED Setup | | |
| Shutdown Initialization System Status | | |
| Logout | | |

From the *Shutdown* page, press *Apply* to shutdown LinkStation. This has the same function as holding down the power button on the front of LinkStation, but may be done remotely. Turning on the LinkStation after a shutdown requires a physical button push on the front of LinkStation. The *Restart Now* button simply reboots the LinkStation, 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 LinkStation shall keep its administrator password after a initialization or whether the password should be reset to the default password (default password is

| ink Station | | BUFFAL |
|-------------------|--|-------------------------|
| Home | Maintenance | THELP |
| Basic | | |
| Network | INIT Button Option | |
| Disk Management | Admin Password @ Reset to Default | C Keep Current Password |
| Shared Folders | | |
| Group Management | Apply | |
| 🚦 User Nanagement | | |
| Disk Backup | Reset LinkStation Configuration to Factory Def | aults |
| Yi Maintenance | Restore Defaults Restore | |
| Mail Notification | | |
| UPS Settings | Perform Disk Format on all Link Station Disks | |
| Alert Setup | Perform Disk Format on all LinkStation Disks | |
| Status LED Setup | Prevent crest romas on all Enrictation Disks | Start Disk Formatting |
| Shutdown | | |
| Initialization | | |
| System Status | | |
| Logout | | |

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 LinkStation's internal hard drives. This cannot be undone.

System Status (System Information)

| Home | System Status | 2HE | LP |
|---------------------|---------------------------|---|----|
| Basic | | | |
| Network | System Information | | |
| Disk Management | LinkStation Name | LINKSTATION | |
| Shared Folders | LinkStation Description | LinkStation | |
| Group Management | Firmware Version | 1.00 | |
| User Management | Farmware Version | 1.00 | |
| Disk Backup | Current Date and Time | 2006/6/2 14:24:25 | |
| Maintenance | Time Zone | GMT+09:00 | |
| System Status | Windows Network Workgroup | WORKGROUP | |
| System Information | Name | WURLERUOP | |
| USB Details | AppleTalk Function | Enabled | |
| Drive Properties | AppleShare Network Zone | | |
| Network Information | Settings | | |
| Logout | FTP Server Function | Enabled | |
| | NTP Function | Enabled (2006/06/03 03:24:15 Refreshed) | |
| | Email Alert Notification | Disabled | |
| | Fan Status | Normal (農転停止中) | |

This page shows you the System Information for your LinkStation.

Firmware updates are occasionally available from *www.buffalotech.com* for the LinkStation Pro. 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 and UPSs plugged into your LinkStation. In this example, no USB hard drives are plugged in to the LinkStation.

System Status (Drive Properties)

| Kome | System Stat | us | 7HELP |
|---------------------|------------------|----------------|---------------------|
| Basic | | | |
| Network | Disk Information | ion | |
| Disk Management | Dak 1 | Status | Standard Mode |
| Shared Folders | | Unit Name | WD2500J3-22MHB0 |
| Group Management | | Total Capacity | 237.042.460 kbytes |
| User Management | | local capacity | 237,042,400 kbjites |
| Disk Backup | | Amount Used | 258.948 kbytes |
| 1 Maintonance | | Percent Used | 0.13 % |
| System Status | | File Format | EIT3 |
| System Information | | rile Format | EXIS |
| USB Details | | | |
| Drive Properties | SB Disk Info | rmation | |
| Betwork Information | USB Disk 1 | Status | Not Detected |
| Logout | | | |
| | USB Disk 2 | Status | Not Detected |

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

System Status (Network Information)

| Home | System Status | 7HELP |
|--|---------------------------------|----------------------|
| Basic | Network Information | |
| Network | | |
| Disk Management | MAC Address | 00:0D:08:7A:A0:92 |
| Shared Folders | IP Address | 192.168.1.103 |
| Group Management | | |
| User Management | Subnet Mask | 255,255,255,0 |
| Disk Backup | DNS Server Address | 24.26.193.62 |
| Maintenance | Default Gateway | 192.168.1.1 |
| System Status | Ethernet Frame Size | 1,518byte |
| System Information | Link Speed | 100Mbps(Full Duplex) |
| USB Details | Packets Received | 2.214 Packet |
| Drive Properties | | |
| Network Information | Packets Received with Errors | 0 Packet |
| Logout | Packets Transmitted | 2,799 Packet |
| and the second | Packets Transmitted with Errors | 0 Packet |

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

LinkStation Client Utility

| 🛃 Buffalo NAS Clie | ent Utility | | X |
|--------------------|-------------------------|---------------|------------------------|
| File Setup Mappir | ng Help | | |
| DEVELOPMENT | BT-TERA01 LINKSTATION | TERA3 GIGAAND | RE TERAANDRE TERAROBIN |
| | | | |
| | | | |
| Host Name | DEVELOPMENT | HDD | 89.3GB / 109.7GB (81%) |
| | WORKGROUP | USB-HDD | 32.6GB / 146.7GB (22%) |
| Workgroup | WORKBROUP | | (Used/Full) |
| IP Address | 192, 168, 7, 25 | | |
| | | | |
| Subnet Mask | 255. 255. 255. 0 | | |
| | | | |
| MAC Address | 00:07:40:A4:B7:7B | | |
| Firmware | 1.48 | | |
| Firmware | 1.40 | | |
| | | | |
| HD-H120LAN | | | |
| Link St | tation | | |
| | | | |
| L | | | |
| | | | |

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

With a LinkStation'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 browser management tool that we began exploring on page 20. And clicking *Setup* and choosing *Modify IP Address* takes you to the following screen . . .

LinkStation Client Utility

IP Address Setup

| New IP Address - | |
|-------------------|---------------|
| IP Address | 192 168 1 |
| Subnet Mesk | 255 255 255 0 |
| Administrator Pas | sword |

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

Disk Errors

If LinkStation encounters a disk error, it will be reported in the LinkStation status on the top of any of the Web-Based configuration screens. Run a *Disk Scan* in the event of this error. If that doesn't work, try a reformat. Reformatting the drive will delete all of the data on it so try to backup any data you can before beginning. Finally, if none of the above solutions help, then please contact Technical Support for further assistance.

LED Flash Codes:

- 3 flashes Partition problem with hard drive. Reformat the hard drive.
- 4 flashes Fan problem.
- 5 flashes ROM problem.
- 6 flashes Hard Drive can not be recognized.
- 7 flashes Problem with motherboard (RAM, LAN, or Hard Drive controller).

Technical Specifications

| LAN Standards: | IEEE 802.3u; IEEE 802.3ab; IEEE 802.3 |
|--------------------------|--|
| Transmission Types: | 1000BASE-T: 8B1Q4, PAM5; 100BASE-TX: 4B5B 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) |
| Electric Current: | 120V A/C |
| Power Consumption: | ~21W (Varies slightly with drive size) |
| Dimensions: | 2.4" x 6.3" x 8.5" (60 x 160 x 216 mm.) |
| Weight: | \sim 3.5 lbs (x.x kg.) (Varies with drive size) |
| Operating Environment: | 41°-95° F, 5°-35° C; 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

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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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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

Within the envelope containing the self addressed padded CD shipping envelope, please include a bank draft or money order for \$20 (USD) (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).

We do not send GPL source in bulk on a DVD. And order confirmation is not required by the GNU General Public License.

We are more than happy to comply with your request; however, we must ask you to comply with our GPL distribution policy, which complies with the GNU General Public License.

Sincerely, Buffalo Technology GPL Department

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Buffalo Technology Ireland Ltd 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 \notin 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).

We do not send GPL source in bulk on a DVD. And order confirmation is not required by the GNU General Public License.

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Sincerely, Buffalo Technology GPL Department