User Manual Rackmount TeraStation Pro TS-RHTGL/R5



Introduction

Congratulations on your new TeraStation! Your TeraStation Pro is a powerful file server that's as easy to use as a hard drive. With its straightforward configuration GUI, anyone can easily configure the TeraStation's settings. You don't even necessarily need to configure it at all; right out of the box it's ready to be plugged in and put to work. But the TeraStation remains a fast, reliable Linux-based server, with four hard drives that may be configured in RAID 0, RAID 1, RAID 5, or RAID 10 arrays. It also includes SAMBA 3.0, allowing it to join Active Directory domains, download users, passwords, and groups, and keep them up to date. This user manual is intended to assist you in configuring your new TeraStation.

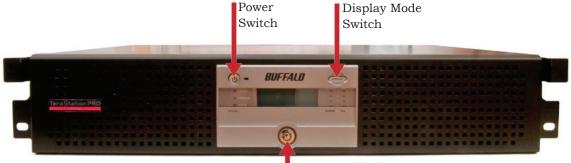
Because we're constantly updating our product, the images and text in this manual may vary slightly from the images and text displayed by your TeraStation. These changes are minor and should not affect the ease of setup adversely. As time passes, future user interfaces, updated software, and later versions of this manual may be freely available for download at our web site: *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 73 and 74.

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TeraStation Layout



Front Panel lock (Turn counter-clockwise to release)

TeraStation Layout

Hard Drives (Squeeze tabs to release)



Init Button (Hold down to reset all settings)

TeraStation Layout



Begin by connecting your TeraStation's power and Ethernet cables. For best results, the Ethernet cable should be connected to a router, hub, or switch on your network. Turn the TeraStation on by pushing the power button on the front panel. It will take about a minute to boot.

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.





TeraNavigator Setup



Press the Begin Installation button to begin.

If you're installing on a PC, click on *Easy Installation* (the pink, upper button). Mac users can skip this step.

Click *Next* to step through the installation.



TeraNavigator Setup



Follow the steps shown and continue pressing *Next* to step through the installation.

When installation is complete, click Finish.



Using your TeraStation with a Windows PC



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



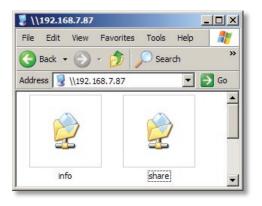
Clicking *Shortcut for TS-TeraStation_name* takes you directly to the folders on your TeraStation. *Share* is the main folder that you can put files and folders in. *Info* contains a copy of your user manual.



The *Buffalo NAS Navigator* icon opens the TeraStation's client utility. Turn to page 59 for more on using the NAS Navigator client utility.

To Access TeraStation Data from a PC:

Your TeraStation uses "shares" (folders) to hold data. A share called "share" is already configured on your TeraStation, and you can create additional shares on page 37. To start using your TeraStation, you can either click on the *Shortcut for TeraStation* on your desktop, or you may just use *drive T* in My Computer, which setup has mapped to the default share in your TeraStation.





Accessing TeraStation Data from your PC

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

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

Run Y Type the name of a program, folder, document, or Internet resource, and Windows will open it for you. Open: Open: MX221501262 ¥ OK Cancel Bronse...



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 **\\TeraStation_ Name\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.



Map Network Drive		×
	folder an you can a Specify ti	is can help you connect to a shared network nd assign a drive letter to the connection so that access the folder using My Computer. the drive letter for the connection and the folder want to connect to:
	Drive:	Z:
	Folder:	share Browse
		Example: \\server\share
		Reconnect at logon
		Connect using a <u>different user name</u> .
		Sign up for online storage or connect to a network server.
		< Back Finish Cancel

Using your TeraStation with a Mac



After installing the TeraNavigator software, your Mac will have a *NAS Navigator* icon on the desktop.



Clicking the NAS Navigator icon opens the TeraStation's client utility.

Accessing TeraStation Data from a Mac

You can add a link from your TeraStation's 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 17.

Accessing TeraStation Data from a Mac

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

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

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







Accessing TeraStation Data from a Mac

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

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

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 Expansion

TeraStation Pro has two USB 2.0 ports on the rear. These ports can be used for adding external USB Hard Drives or UPS systems. 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 Pro. To connect a USB hard drive or UPS to 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 31 for setting up your USB hard drive on the TeraStation. Page 46 shows you how to set up TeraStation to backup to a USB Hard Drive.

See page 51 for more information on using the TeraStation with a UPS.

The Configuration GUI



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IS-LOTOL/RS			
Tera Sta	ation		

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

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

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

TeraStation PRO	\supset		BUFFALD
	Login		7HELP
	Please insert you	r user name and password.	
	User Name		
	Password		
	Login		

User name: *admin* Password: *password*

See page 43 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 63 and 64 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.

8	Home	Home				2HELP
E)	Basic					
4	Network	Se TeraS	tation Name	TERAPR02		
Q	Disk Management	S Model	Name	TS-HTGL/R5 1.01		
ě.	Shared Folders	> IP Ag	traca	192 168 7 87		
11	Group Management					
2	User Management	S Currer	t Date and Time	2006/12/13 2:28:2	6	
	Disk Backup	S HOD S	Space Used	RAID Amay 1	0.00 GB / 695.61 GB (0.00 %)	
۲.	Maintonance					
71	System Status					
E	Logout					

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.

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Q.	Disk Management	TeraStation Histoarne	TERAPHO2
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-	Group Management		l'entre
8	User Management	Date and Time Setup	
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0	Logout		Use Local Time
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		1/19 Bynchrenizatien Progenicy	Cino a tay
		Settings	
		Display Language	Einglisch #47
		Windows Client Languidge	CP437 (United States, Canada)

Network (IP Address Properties)

Home	Network		2HELP
Basic			
Network	IP Address Properties		
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WORKSHOLP/Domain	IP Address	192 948 7 87	
Disk Management	Subret Vlask		
Shared Folders	Subret Mapk	255 255 255 0 💌	
Group Managemient	Delault Cateway Address	192.968.7.1	
User Management	Pemary DNS Server Address	192.908.7.5	
Disk Backup	Secondary DNS Server Address		
11 Maintenance	Secondary Units Server Address	216.201 128 10	
System Status	Ethernet Frame Size Prop	ating	
Lopout			
	Othernet Frame Size	1,518 bytes (Cebuit)	

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)

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Network	Workgroup and Domain P	Toperties
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WORKSROUP Domain	Workgroup Partys	WORKGROUP
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Shared Eolders	STATE STORY P PROPERTY	
Group Management	Authentication Setup	
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Disk Backup	Authentication Type	Delegate Authenty to TeraDiation
Maintenance		C Delegate Authority to External SMD Server
System Statue		E Use Windows Domain Controller as Authentication Server
Logout		E Automatic User Registration
		E Automic aton David Falter
	Authentication Server Name or P Address	[
	Authentication Shared Folder Hame	r
	Apply	

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

To make your TeraStation a member of a workgroup or domain, enter the appropriate information into the fields on this page and click *Apply*. Do not select *Domain* unless you have a Windows Server Domain Controller on your network. Please leave the network type selected as *Workgroup* unless you are a network administrator or have been instructed to do so by one.

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

Domain & Active Directory Authentication integrates the TeraStation Pro with Windows Domain and Active Directory Servers. The TeraStation Pro participates as a member device in the Domain and Active Directory networks, allowing the TeraStation to use Users and Groups that reside on the Domain or Active Directory System and update them automatically. If Active Directory is used, then FTP access to the TeraStation will be automatically disabled. To configure the TeraStation Pro on an Active Directory network, you must have the Domain Administrator login credentials. In an NT Domain environment, select NT Domain as the Network Type. Enter the Domain Name and Domain Controller into the appropriate fields. In an Active Directory environment, check the Active Directory Domain checkbox and fill in the 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 current properties of your hard drives and RAID Arrays. To change these settings, click on *RAID Setup* at left.

Disk Mana	aement	764
SAID Array		
agement AAD Jury 1	Dates	Herrod
perfect	R(NC) Mode	MARK .
•	Don Structure	Det 1, 2, 3, 4
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_	Amount Used	2.800 http://www.ip.80.000/
olders	Percent Used	0.30%
anagement	File Format	175.
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Disk Inform	ution	
Die 1	Status	RAD Avery 1
	the tame	whereast anyon
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	Tubal Capacity	3101,750,384 ktopies (232,89-00))
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USD Dak 1	Manufacturer	(BURY ALC)
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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 0 - All four drives are combined into one large, fast drive, giving the maximum capacity for your TeraStation. This size is the one listed on your TeraStation's box and shows the total capacity of the TeraStation with no data used for redundancy. RAID Spanning is fast and efficient, but with no redundancy, if one hard drive fails, all data on the TeraStation is lost.

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

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

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

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

Disk Management (RAID Setup)

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

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



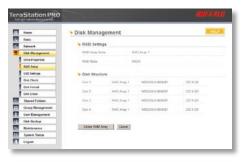
You may also disable *RAID Array Error Detection Response* from this page. Normally, this is set to automatically shut down the RAID array when an error is detected. Though it is not recommended, you may disable that behavior by selecting *Disable*.

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

Disk Management (RAID Configuration)

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

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





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)

Tione 1	Disk Manager	ment		HELP
Back:				
Metwork	RAID Setup			
Disk Management	Name	RAD Mude	Dek Strothere	Capacity
Drive Properties	FTD RAD Array 1	RMD6	Dek 1, 2, 7, 4	695.73 GB
ALLO Setup	EAD Anay 2	Not Configured		
USB Settings	HALD Amay 2	No Congood		
DISK Check	Checking RAID array			
Disk Format				
Disk Erano	RAID Array Erro	r Detection Re	sponse	
Shared Folders	Automatic Studiour	() () () () () () () () () ()	REnable C Double	
Croup Management				
ther Management	Submit			
Disk Backup				
11 Maintenance				
System Status				
Lopout				

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)

Home	Disk Manager	nent		2 H	ELP
Basic					
Network	RAID Setup				
Disk Management	Name	RAID Mode	Disk Structure	Capacity	
Drive Properties	RAID Anay 1	RAID5	Disk 1, 2, 3, 4	695.73 GB	
RAID Setup		未設定			
USB Settings	RAID Analy 2	THERE.			
Disk Check	RAID Array Erro	Detection De			
Disk Format					
Disk Erase	Automatic Shutdown		Enable C Disable		
Shared Folders	and the second sec				
Group Management	Submit				
User Management					
Disk Backup					
Maintenance					
System Status					
Logout					

You'll see this screen when your new RAID Array is completely configured. Click on *Shared Folders* and turn to page 37 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.

<u> </u>	Home	Disk Man	agement		HELP
E.	Basic				
6	Network	Se USB Dis	k Setup		
2	Disk Management	Name		Assigned Disk	Capacity
1	Drive Properties	USB	Disk 1	BUFFALO INC. USB-SATA Bridge	232 82 GB
1	RAID Setup				
	USB Settings	US8 Disk 2		Not Assigned	
1	Disk Check				
	Disk Format				
÷	Disk Format Disk Erase				
8					
20 20	Disk Erase				
	Disk Erase Shared Folders				
2	Disk Erase Shared Folders Group Management				
2	Disk Erase Shared Folders Group Management User Management				
	Disk Erase Shared Folders Group Management User Management Disk Backup				

Disk Management (USB hard drive setup)

Harive	Disk Management	
Dasic		
Network	USB Disk Setup	
Disk Management	USB Disk Name	USB Dek 1
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RAD Setup	Se Assigned Disk	
USD Settings	Assigned Disk.	BUFFALO INC. USB-SATA Bridge
Clisk Check	Status	Monthia
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Shored Folders	Lint Name	00JS-22MH00
Group Management	Capacity	232 I9 GB
Usor Management	and a	110,00
Disk Backup	Remove USB Disk Ar	Solgamont Cancel Format USB Disk
1. Meintenance		
System Status		
Legeut		

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 35 for more information on reformatting disks. Turn to page 36 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* dropbox (internal drives can only be formatted with XFS). Note that FAT32 has a 2 gigabyte single file size limit. If you choose FAT32 for your file system, you will not be able to store single files larger than 2 gigabytes on the drive. Use of the *XFS* or *EXT3* file systems is recommended. Press *Select Target Disk* when done.

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

Shared Folders



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

To delete a share 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.

Add a new Shared Folder

Home	Shared Folders	2142.5	
Elevie Network	Add New Shared Folde		
Disk Hanagement	Dramed Folder Rame	bit and	
Shared Folders		hand	
Shared Folders Setup	Shand Folder Description		
Service Schap	Volume	RAD Away 1	
DES Selles	Shared Folder Support	Rithnoon Ridge DTP Clash Beckel	
Group Hanagement	Shared Folder Attributes	C Read Only State / Vinite / El Hiddun share(Only SME)	
User Managoment			
Disk Backup	Pacycie Der	# Enable C Deable	
Maintenance	File Operation Log	@ Envided C Dirabled	
System Status	Hamota Backup Pasamord		
Lopour			
	Office File	Osabie Olime File	
	Access Restrictions		
	Access Restrictions	C Enable & Duatie	
	Read / serie	Read Owy All Groups / Users	
	Ching	at admine gut s hdy sens	
	User		
		Ber B Dawnstreen	

To add a new shared folder, enter a name for it in the *Shared Folder Name* box and choose the *Volume* 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.

Note: If AD is used on the TeraStation, FTP support will be disabled.

Checking "Apple" by *Shared Folder Support* enables Appletalk for legacy Macs. This gives you all of Appletalk's limitations, including a 2GB maximum filesize and a 32 character limit for filenames. If a folder with AppleTalk enabled 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 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)

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Besic		
Network	Add New Shared Folde	
Disk Management	Shared Folder Name	test
Shared Folders	Shared Folder Description	
Shared lickders Softup	Webume	
Service Setup	visited.	RAD Array 1
DFS Setup	Shared Folder Seport	R Windows R Apple C FTP C Disk Backup
Group Management	Eharod Folder Attributes	C Read Only R Read / Write / El Hidden SharedSMB Only
User Management	Recycle Bri	R Explice C Deable
Disk Backup		
Maintenance	File Operation Log	@ Enabled C Disabled
System Status	Nerro Statue Remote Backup Papeword	
Logout	Official Files	Dasble Office Files
	Access Restrictions	
	Access Restrictions	@ Erubie C Disable
	Read / Write	Read Only All Groups / Users
	Group admin	C
		A pent Mases
	User	G robn G good
	Acpy Cancel	a and the second

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 41 and 42.

Shared Folders (Service Setup)

TeraStation PRC			BUFFALO
Home	Shared Folders		THELP
Basic Network	Service Sharing Service Sharing Service Statements Statements Service Statements Service Statements Service Statements Service Statements Service Statements Service Statements Statements Service Statements Service Statements Service Statements Service Statements Service Statements Statements Service Statements Service Statements Service Statements Service Statements Service Statements Service Statements Statements Service State	vices	
Disk Management	AppleTalk Protocol	@ Enable C Disable	
Shared Folders	FTP Server	C Enable & Disable	
Shared Folders Setup			
Service Setup	Apply		
DFS Setup			
Group Management			
Usor Management			
Disk Backup			
11 Maintenance			
FII System Status			
Logout			
	Copyright 2002-2006 (C) BUF#	FALO INC. AI Rights Reserved	

To allow FTP Access to TeraStation, choose *Enable* for *FTP Server*. To enable legacy AppleTalk support, choose *Enable* for *AppleTalk Protocol*. FTP access will not be available if AD is in use.

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

Home	Group Management	760
Basic		
Setera k	Security Settings	
Disk Management	E Group Nome	
Shared Folders	100	Group Description
Group Management	1218	Extaut Administrative Group
User Management	post	
Disk Backup	- Prov.	Default Due of Group
Maintenance	history	
System Status		Default System Group
Lopout		

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*.

None	Group Managem	ent		HELP
Banic Network	S Add New Group			
Disk Management	Geoup Name			
Shared Folders	Geoug Description			
Group Management				
User Management	a management of			
Diek Deckup	S Member Users			
Mointenance	E Unic Name			
System Status	E size			User Denergelon
Logout			Puttin access	the identifiering the lighters
	E gunt			
			Bullist account	for given access to the system.
	E rote			
	Anthy Cancel			

User Management

eraStation PRO		BUFFALO
E Hone	User Management	2HELP
Basic		
Metwork	Local User Settings	
Disk Management	Coor Name	
Shared Folders	STE admin	User Description
Group Management	61 82 SOUT	Bull-is account for administration for system.
2 User Management	2.41	
Diek Beckup		Bullies account for guest accounts to the system
1. Maintenance	E MB BurAcris	
System Status		Disaria Atmin Account
Logout		
	Add Local User Defete Local Oce	
	Couvright 2000-2001 (C) RUFFALO INC. AL Rights Resul	and.

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

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

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*.

Fera	Station PRO	>	BUFFALO
	Home	User Management	HELP
R K	Besic	S Add Local User	
	Disk Management	Uper Nome	
ô.	Shared Folders	Preparet	
	Group Management		
2	User Management	Contres Pasquerd	
1	Disk Backup	User Description	
17	Halutonance		
11	System Status	Apply Cencel	
	Logost	Carcel	

User Management (changing passwords)

TeraStation PRO		BUFFALO
E Home	User Management	THELP
Elasic		
Network	Local User Settings	
Disk Management	Coor Name	
Shared Folders		User Description
Group Management	ECTE2 admin	full-is account for administrating the system.
User Management		states and a set and states of the states
Diek Beckup	quest	which account for guest accounts to the system
1. Maintenance	E ME BurAceie	
System Status	L HELITA	Delver's Atenie Account
Logout		
	Add Local User Defete Local Oce	
_	Copyright 2000-2000 (11) RUFFIL O BID: At Reparts Reserved.	

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

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

Home	User Management		HELP
Basic			
Hotwork	Se Edit Local User		
Disk Management	Uper Name	robin	
Shared Folders	Pateword		
Geoup Management			
User Management	Contine Password		
Disk Backup	Uper Dependion	mo	
Maintenance			
System Status	and month		
Logout	Apply Concol		

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!

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 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

raStation PRO	\sim		BUFFALI
Here	Disk Backup		THELP
Bask.			
Network	Se Disk Backup		
Citik Management	Job Number Schedule	Statup	
Shared Folders	1 dol. [373	Not Created	
Group Management	ATEL And 2	Not Owned	
User Management			
Dick Backup	E ast CT	Net Created	
DiskBackup	1 dol.	Not Created	
Tera Station List	STED Job 5	Nat Created	
Add ToraStation			
Maintenance	6 dol.	Nat Created	
System Status	10 A 40 7	Not: Created	
Loput	ki i	Not Created	
	Search for a Backup De	stination by Password	
	Papeword to Sapech		
	Apply		
	Cepvript 2302 3081 (C) EUFF4		

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

Disk Backup (Edit Backup Job)

Т	Home	Disk Backup		HELP
5	Basic			
5	Network	Se Edit Backup Job		
2	Diak Management	Jeb Nambor	Job 1	
1	Shared Folders	Backup Job Schedule	C flor Scheduled C Imme	dataly C Dary tay # Dary and
	Group Management	Backup Date	Saturday 💌	
1	User Management		_	
	Disk Backup	Backup Time	Heur Heur Minuta	
	Disk Backup	Backup Operation Made	Normal Backup	2
1	Tere Station List	Backup Options	Create a Felder Inside of	the Backup Tarred
5	Add TeraStation			and the second sec
1	Haintenance		C Use Encryption	
Щ.	System Status		E Use Compression	
Ц.	Logest		Create a Dackup Log Pi	
			Fignore Errors and Proce	ed with Pararo Backups
		Appy Cancel Cearum Cearum Backup Source and Destina Could bokup Shared Protein		ucing Shaned Felder
		Chaose a nautor and destination fol	der fer backup sed olick Select	
		-	TS HTGL0060	usbálski 🔳
		Select Rowers		

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

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

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

Disk Backup (TeraStation List)

Home	Disk Backup			THELP
Bosic	a sugarante a			
Motwork	TeraStation List			
Disk Management	fiame	IP Address	Backup Support	Disk Sleep
Shared Folders	13-0LAM	192 168 7 107	Supported	Not Configured
Group Management	ERMYLS		Supported	Not Carlloured
User Management	D-N1-C0	192.168.7.125	Seboould	higt Compared
Disk Backup	TERAPRO2	192 168 7 87	Supported	Not Carifigured
Disk Backup	DEVELOPMENT	192.168.7.25	Septented	Not Centigered
TernStation List				
Add TenaStation	Refesh			
Maintenonce				
System Status				
Logout				

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.

Maintenance (Notification)

Sele: Mail Rootification Sele: Mail Rootification Sele: Sele: Sele: Sele: <t< th=""><th>lame .</th><th>Maintenance</th><th></th><th>7148</th></t<>	lame .	Maintenance		7148
Add Marganical Mar Bataganical Mar Bataganical Mar Bataganical See Managanical Marganical Marganical Marganical See Managanical Marganical Marganical Marganical	læsic.			
America Folders Solgest Description Solgest Institution Soles Report Description Solgest Mark Address 2 Institution Soles Description Solgest Mark Address 3 Institution Soles Description Solgest Mark Address 4 Institution Soles Description Solgest Mark Address 5 Institution Soles Description Solgest Mark Address 5 Institution Soles Description Advice Solgest Mark Address 5 Institution Soles Description Advice Solgest Mark Address 5 Institution Soles Description Advice Solgest Mark Address 5 Institution Soles Institution Soles Solgest Ma	lotwork.	Mail Notification		
Parto Hanagament Immediate Description Fare Managament All factors Description Balance Andrea Provide Andrea Description Balance Andrea Resport Mail Andreas 2 Description Balance Andrea Resport Mail Andreas 2 Description Balance Andreas 3 Description Description Balance Andreas 4 Description Description Balance Andreas 5 Description Description Ba	lisk Management	Mai Notification	C Endle @ Dashle	
ber Hangemenn Ak Bucker Ak Bucker Bergert Mar Address 1 Hangert Mar Address 1 Hangert Mar Address 2 Hangert Mar Address 2 Hangert Mar Address 4 Hangert Mar Addre	hared Folders	SI/TP Server Address		
ser Management ser Management bibrereactor	iroup Management			
Adversers	sor Management	Subject	TerroStation Status Report	Ostiut
bit longest fills Address 2 in stratege in fillege in fillege interpret fills Address 3 interpret fills Address 4 interpret fills Address 5 interpret fills Add	lisk Backup	Recipient Mail Address 1		
PS telegen Incourt fablic Addess 3 Incourt fablic Addess 3 Incourt fablic Addess 4 Incourt fablic Addess 4 Incourt fablic Addess 4 Incourt fablic Addess 5 Incourt fablic Add	laintenance	Recipient Mail Address 2		1
Se settinge Inscripted Mark Address 4 Inscripted Mark Address 4 Inscripted Mark Address 5 Inscr	all Notification			
New COP West State Second State	PS Settings	Neopert Max Address 3		
strag franker hansens kakens prime Stehen speler Stehen All Cost frank Stehen S	lert Setup	Recipient Mail Address 4		1
Nadrow Brock and Figure Brock States Aver Services Aver Separat Brock Figure States States Aver Separat Brock Figure States Stat	totus LCD Penel Setup	Recovers Mail Address 6		
Senses years Sense gener gener III Dea Fail III Dea Fail III Dea Fail III Dea Fail	solog Transfor			
prime Stelan sport Wran Fal Wran Fal W Constant Destup	hutdown	Notification Trigger	R HOD Status Report	
ngeut III cea frai III ren Fait III Constitute Destup	station		R System Alert	
IF Fan Fail If Concise Beckup	iyatean Stotus		R Oak Fail	
	tuege		R Fan Fal	
HDD Status Sending Time Science			E Complete Backup	
		HOD Status Sending Time	C B o'dock	

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 (UPS Settings)

Home	Maintenance	7HELP
Dasic	UPS Power Settings	
Network		
Disk Management	Synchronize with UPS	C Erable @ Disable
Shared Folders	UPS Connection Type	UFS Dedicated Port (APC Style)
Group Management	Stutdown Candition when Power Failure	
User Management	Shutsown Cardoon when Power Failure	Shundown TaraStation after 5 Seconds of Power Failure.
Disk Backup		Shuidown TeraStation when UPS Reports
Maintenance		"Battery Low" status
Mai Notification	UPS Behavior After TeraStation has Shutdown	@ Tum off @ Alve
UP's settings	UPS Recovery Function	C Use C Do acture
Alert Setup		A 1010 A 112 AL 200
Status LCD Panel Setup	Apply	
Syslog Transfer	-4444	
Shutdown		
Initialization		
System Status		
Logout		

You may enable *Synchronize with UPS* and *UPS Shutdown Conditions* from this page. Consult your Uninterruptable Power Supply's documentation for further information about setting up your UPS system.

Buffalo Technology recommends the use of APC SmartUPS Serial Uninterruptable Power Supplies. Other UPSs may use different pin configurations. Compatibility cannot be guaranteed with other UPSs. See page 52 for more on the TeraStation's UPS serial port.

Maintenance (UPS Settings)

UPS / Maintenance port

This is TeraStation's serial port pin assignment for serial UPS products.

Connector Pin Assignment.

Pin	Signal	Description
1	NC	NC
2	RXD	APC_Line_Fail
3	TXD	APC_UPS_Shutdown
4	NC	OMR_UPS_Shutdown
5	GND	GND
6	NC	NC
7	NC	+12V
8	NC	OMR_Line_Fail
9	NC	NC

Maintenance (Alert Settings)

Home	Maintenance		7HELP
Basic			
Network	Alert Sound Setup		
Disk Management Shared Folders	Alert Sound Conditions	Exceeding Temperature	
		Disk Error has Occurred	
Group Management			
User Management		Fan Error has Occurred	
Disk Backup		UPS Power Error has Occurred	
Maintenance			
Ital Notification	Apply		
UPS Settings			
Alert Setup			
Status LCD Panel Setup			
Syslog Transfer			
Shutdown			
Initialization			
System Status			

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

Maintenance (Status LCD)

Home	Maintenance	THELP
Besk		
Network	Status LCD Setup	
Disk Management	LCD Display here	R Host Name / IP Address
Shared Folders		R HDO Usage Amount
Group Management		P Deck Mode
User Management		
Disk Backup		Ø line
Maintenance	Automatically Switch LCD Display Itoms	@ Enable C Dicable
Mail Notification		
UPS Settings	LCD Back Light Setting	Dim Down.ss C1 C2 C3 C4 R5 ss.Dim Up
Alert Setup	> LED Settings	
Status LCD Penel Setup		
Syslog Transfer	LED	Denter AS C1 C2 C3 C4 6 5 25 legiter
Shutdown	LED Synchronization	C Use @ Do not use
Initialization	LED (Sleep)	Destructor @1.@2.@3.@4.55.Beghter
System Status	LFD wakeup time	
Logout	LED vakeup time	0 H True
	LED sleep time	10 M Trine
	Accily	

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)

raStation PRO			BUFFALD
Homo	Maintenance		THELP
Basic	Syslog Transfer		
4 Network			
Disk Management	Syslog Transfer	C Enable @ Cisable	
Shared Folders	Sysieg Sever IP Address		
Group Nanogement		-	
User Management	Log Information for transfer	III System Log	
Disk Backup		File Operation Log (SMB)	
11 Maintonanco			
Hal Rothcation	Apply		
UPS Settings			
Alart Setap			
Status LCO Panel Setup			
Systop Transfer			
Shutdown			
Instal 24500			
HI System Status			
Logout			
	CrewfeM 2002 2004 (C) BUFFA		

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

Maintenance (Shutdown)

Home	Maintenance
Basic	
Network	Shutdown
Disk Management	Shutdown TeraStation Apply
Shared Folders	Restart the TeraStation Restart Now
Group Management	TO SUBTINIE TO M
User Management	
Disk Backup	
Maintenance	
Mail Notification	
UPS Settings	
Alert Setup	
Status LCD Panel Setup	
Syslog Transfer	
Shutdown	
Initialization	

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)

Home	System Status	7HELP
Basic		
Network	System Information	
Disk Management	TeraStation Name	TERAPRO2
Shared Folders	TeraStation Description	TeraStation
Group Management	Model Name	TS-HTGL/R5
User Management		
Disk Backup	Firmware Version	1.01
Maintenance	Current Date and Time	2006/12/13 2:33:04
System Status	Time Zone	GMT-05:00
System Information		
USB Details	Windows Network Workgroup Name	WORKGROUP
Drive Properties	AppleTalk Function	Enabled
Network Information	AppleShare Network Zone Settings	
Log Information		
Logout	FTP Server Function	Disabled
	NTP Function	Disabled
	Email Alert Notification	Disabled
	Fan Status	Normal (1070 RPM)

This page shows you the System Information for your TeraStation.

Firmware updates are occasionally available from *www.buffalotech.com* for the TeraStation 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)

Home	System Sta	tus		HELP
Basic				
Network	USB Details			
Disk Management	USB Class	Manufacturer	Device Name	USB 2.0/1.1
Shared Folders	Storage	BUFFALO INC.	BUFFALO INC. USB-SATA	USB 2.0
Group Management			Brdge	
User Management				
Disk Backup				
11 Maintenance				
System Status				
System Information				
USB Details				
Drive Properties				
Network Information				
Log Information				
Logout				

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

System Status (Drive Properties)

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

	 System Sta 	itus	
	· RAD Array	Information	
angenerati	RAD Array 1	Sat.	forul .
- idea		RAD Male	NACE .
anapartent			
aprend		Dek Stratore	D(0.1, 2, 3, 4
- P		Tatal Capacity	725.396.362 kbytes (855.441 081)
10 C		Arteast Good	2.801 (99,901 (2.81) (20)
adus		Perser Unit	4.81%
a state		The Toma	173
-		The Points	214
tradat	HAD NOT 7	Dates	Not Carligated
_	· Diak Inform		
	Chult 1	Data	EAD Array 1
		2H.Rate	1102305A/8-028C81
		Tend Capacity	284, 796, Mil Myree (212 85 (18))
	0+m 2	Date	Kinth Away 1
		un fans	1/52508/6-071C81
		Terral Capacity	244, 190, 184 kityree (212, 80, 001)
	Unit 3	Data	KAD Away 1
		paters.	11020108/8-024C81
		Trial Capacity	244, 195,384 kitylwo (212 85 021)
	Chan &	Dates	RAD Away 1
		Soltare	W00008-0-029C01
		ferar Capacity	244.190.584 KDy/wi (252.80.08)
	S USB Diek In	from all on	
	utit be t	Mandatow	0.075.5
	Come and it	Model Speece	100 Part-Drie
		un have	Use man bes
		Finial Capacity	fan Ottanwi
		File Format	Net Otrainel
	USE Day 2	Sana .	Aut Deschel

System Status (Network Information)

Home	System Status		7HELP
Basic			
Network	Network Information		
Disk Management	MAC Address	00 16 01 99 00 06	
Shared Folders	IP Address	192.168.7.87	
Group Management	Subnet Mask	255.255.255.0	
User Management			
Disk Backup	Primary DNS Server Address	192 168 7 3	
Maintenance	Secondary DNS Server Address	216.201.128.10	
System Status	Default Gateway	192 168 7 1	
System Information		106.000.1.1	
USB Details	Ethernet Frame Size	1,518 bytes	
Drive Properties	Link Speed	1000Mbps(Full Duplex)	
Network Information	Packets Received	219.376 Packets	
Log Information		210,010 P 800010	
Logout	Packets Received with Errors	0 Packets	
	Packets Transmitted	2,801 Packets	
	Packets Transmitted with Errors	0 Packets	

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

System Status

Log Information

Ŧ	Home	System S	tatus		HELP
8	Basic				
る	Network	System L	go		
0	Disk Management	Log Type		System Log	
Ě.	Shared Folders	Save			
	Group Management	June			
2	User Management		File Dow	doud	×
1	Disk Backup		-	want to open or save this file?	
1	Maintenance				
FIL	System Status			Name: 001601990006_system.txt Type: Text Document	
	System Information			From: 192.168.7.87	
	USB Details			Open Seve Cancel	
	Drive Properties				
	Network Information			While files from the internet can be useful, some files can potentially	
	Log Information			ham your computer. If you do not trust the source, do not open or save this file. <u>What is the risk?</u>	
	Logout				

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

TeraStation Client Utility

🙄 TeraStation Client Utility								
<u>File Setup Ma</u>								
BT-TERA01 GI	GAANDRE TEST2X	TERAANDRE TERAPRO	TERACHRIS TERABRIAN DI					
Host Name	TERABRIAN	HDD(RAID5)	246.468 / 696.568 (35%)					
Workgroup	WORKGROUP							
IP Address	192. 168. 7. 55]						
Subnet Mask	255. 255. 255. 0							
Firmware	1.00							
TS-1.0TGL/R	δ;							
Tera Station								
		I'm here	e Refresh View Shares					

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

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

TeraStation Client Utility

IP Address Setup

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

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

Troubleshooting

If TeraStation encounters a disk error, it will be reported in the *TeraStation status* on the top of any of the Web-Based configuration screens. Run a Disk Scan in the event of this error. If that does not resolve the problem, a *format* is recommended. Formatting the drive will delete all of the data on it, so back up any data you can before formatting. Finally, if none of the above solutions help, then please contact Technical Support (see pages 73 and 74 for Technical Support contact information).

Troubleshooting

DIAG LCD Codes:

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

Turn the key counterclockwise to unlock the front panel.



Pull on the right hand side of the front panel to remove it.





Squeeze the tabs gently and swing the tray latch upward.



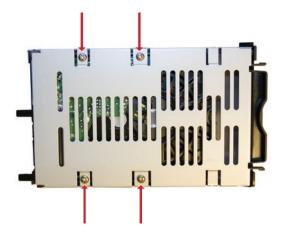
Slide out the drive tray.

Lower the drive carefully to the work surface.





Pull the plug straight out.



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.

Reattach the front cover to the TeraStation.











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	
UPS:	UPS Compatible (Serial/USB connection)	
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:	~17-56W (Varies with size)	
Dimensions:	16.9" x 3.4" x 13.8" (430 x 86 x 350 mm)	
Weight:	~15.8 lb. (7.2 kg.) (Weight varies with size)	
Operating Environment:	32° - 113° F; 20-80% non-condensing	

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GENERAL INQUIRIES

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