



## GT 062™ Quickstart

Tabletop FireWire 800, FireWire 400, USB 2.0 enclosure  
with RAID 1, RAID 0, JBOD and Spanning modes

610022-2.1 GT 062 Quickstart.pdf  
December 16, 2008



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## Contacting Glyph

Please use the following contact information to contact Glyph and its distributors.  
Glyph USA offers phone support Monday through Friday, 9:00 am to 6:00 PM Eastern Time.

Note: DO NOT ship any return goods to the mailing addresses below unless you have a valid RMA number. All goods will be refused delivery unless a valid RMA number is displayed on the outside of the package.

### United States of America

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Sales Contact  
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Technical Support:  
support.europe@glyphtech.com

## Unpacking Your GT 062

Your Glyph GT 062 and accessories are packaged in a sturdy shipping container. Please inspect the container for evidence of shipping damage and mishandling. If the container is damaged, file a report with the carrier or dealer immediately. Do not attempt to unpack and operate your GT 062 until the carrier or dealer confirms the damage. If the container is in good condition, proceed with unpacking the GT 062. Verify that all of the items described in the next section are present and in good condition. If any of the items you expect to find in your container is missing or damaged, contact the dealer before proceeding any further.

In any case, do keep the shipping container and all packing materials in a safe place.

### The GT 062 package includes:

GT 062 Enclosure  
9-Pin FireWire 800 Cable  
6-Pin FireWire 400 Cable  
Hard-shell plastic carrying case  
IEC Power Cable

# About the GT 062 and Drive Modes

The GT 062 enclosure contains two hard disk drives, and can be configured to function as one single drive or two individual drives. Through the use of the Glyph Manager software utility, it supports four drive modes: JBOD, Spanning, RAID 1 (mirroring) and RAID 0 (striping). Each drive mode has its own advantages, depending upon the application.

**JBOD mode** is the simplest of all drive modes, you can think of it as simply two separate disks inside the GT 062. In JBOD mode (standard storage lingo for *Just a Bunch of Disks*), the two internal disks appear and function as two independent drives. If you have a 1TB GT 062, for example, your computer will see it as two 500GB drives. It is a secure drive mode because the failure of one drive will not affect the health of the other. For this reason, JBOD mode is very well suited for audio production. The GT 062 ships in JBOD mode.

In **Spanning mode**, the two drives are seen as one large drive and data is written sequentially across them. When the first drive fills to the limit, data is then written to the second drive. This mode is useful for applications requiring large volumes, but not requiring the speed of RAID 0. Spanning does not provide any performance or redundancy benefits.

**RAID 0 (striping)** increases the performance of the drive system by spreading the data across two drives. RAID 0 is a proven technology for editing video, working with huge graphics files, sound libraries, and streaming instruments that play hundreds of samples simultaneously. In RAID 0 (striping) mode, the two drives are seen by the computer as one large drive, and reading and writing occurs on both drives simultaneously. It is designed to increase the performance and data throughput of the drive system. The GT 062's built-in RAID controller splits each piece of data across both of the drives in segments and distributes the I/O burden. Since data is written without any form of parity data-checking, it allows for the fastest data transfer of all other RAID levels. However, if one drive becomes damaged, the data on both drives can become corrupted. RAID 0 is not redundant or fault tolerant like RAID levels 1, 3, and 5, but the trade off is that it's the fastest of all RAID levels. **MAKE SURE TO BACKUP YOUR DATA OFTEN!**

**RAID 1 (mirroring)** offers data redundancy and real-time backup by writing the same data to the two hard drives at the same time. Should a drive failure happen, data is still available on the remaining drive. In RAID 1 mode, the two drives are seen by the computer as one volume, but with half the capacity. For example, a 1TB GT 062 will be seen as a 500GB drive. Reading and writing occurs on both drives simultaneously so that each of the drives contains exactly the same data, mirroring each other. If either of the drives should fail the other is there to seamlessly continue to provide operation.

## GT 062 Ports

The fastest interface on the GT 062 is FireWire 800, and there are two FW800 ports on the rear panel. Officially, these IEEE 1394b ports run at up to 800Mbits/sec. One of these ports should be connected to your computer, and the other should be connected to other downstream FireWire devices, if applicable. It doesn't matter which port you connect to the computer, they are functionally identical. If your computer has a FireWire 800 port you can use the provided FireWire 800 9-pin cable. If your computer has a FireWire 400 port only, you can use the FireWire 400 port on the back of the GT 062, which provides 400Mbits/sec. If your computer doesn't have any FireWire ports you can either purchase a FireWire adapter card (recommended), or use the USB 2.0 port on the back of the GT 062. A USB cable is NOT included with the GT 062.

# Setting up the GT 062 with Mac OS X

## Installing the Hardware

1. Position the GT 062 by placing the unit on a flat, level surface, or install the unit into a rack with one of Glyph's rack kits. Caution: Speakers are magnetic devices; they can harm your data if they're too close to your hard drives or tapes.
2. Connect the power cable. Make sure that the power is off on all of your computer equipment and the GT 062. Connect the power cable to the back of the GT 062. Plug the three-prong plug into an appropriate power receptacle, preferably with surge and spike protection.
3. Connect the FireWire 800 or FireWire 400 cable. Plug one end of the cable into your computer's FireWire port, and the other into the back of the GT 062. The two FireWire 800 ports are functionally identical, so it doesn't matter which one you use.
4. Power up the GT 062 and power up your computer.

## Understanding Glyph Manager Software for OS X

The Glyph GT 062 ships with Glyph Manager software, a utility for Mac OS X and Windows. When a GT 062 is connected to the computer either by USB, FireWire 400 or FireWire 800, information about the drives contained within the GT 062 will be displayed. Glyph Manager essentially does two things:

1. Configures the GT 062 in one of the four drive modes: JBOD, Spanning, RAID 1, and RAID 0

2. **When configured in RAID 1 mode only**, Glyph Manager constantly monitors the health of the drives and displays the health status. When a problem is detected, Glyph Manager alerts the user by animating in the Mac OS X dock or displaying an error balloon from the Windows System Tray. Data can then be backed up before any is lost due to drive failure.

**NOTE:** *Glyph Manager does not, however, format your GT 062. After configuring your GT 062 in one of the four drive modes, you must take further steps to format your GT 062 and prepare it for use. These steps are explained in the next sections.*

## Installing Glyph Manager Software in OS X

Insert the Glyph Manager CD. There are two OS X install packages, one for OS X 10.3 (Panther) and one for both OS X 10.4 (Tiger) and 10.5 (Leopard). Make certain only to install the version designated for the operating system you are using. You can find your operating system version by going to the Apple Menu and clicking on "About This Mac". To get the latest version of Glyph Manager, go to the support section of [www.glyphtech.com](http://www.glyphtech.com) and download the version for your operating system.

Glyph Manager can run in the background automatically under OS X by using System Preferences/System Accounts/Login Items/Add (+) then selecting Glyph Manager from the Applications folder. Check the "Hide" box to load the Glyph Manager on the Dashboard at login. (Note: The Panther version of OS X calls "Login Items" "Startup Items".) The above actions are specific to the Account name selected. It is necessary to perform these same steps for each Account name desired to have Glyph Manager automatically load at login.

**Note:** We recommend that you set Glyph Manager to run in the background if you are using RAID 1 because it will alert you to any problems with your GT 062, and allow you to backup your data before any is lost.

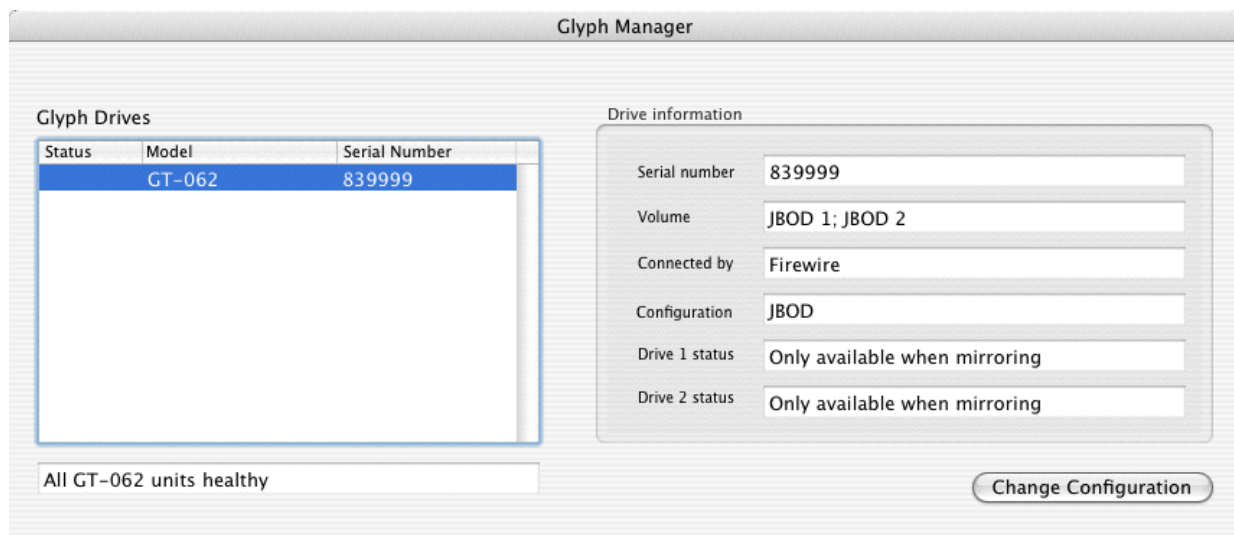
## Glyph Manager Operation in OS X:

The GT 062 ships in JBOD mode, and drive mode changes are done by using the Glyph Manager software utility (not the OS X Disk Utility). Disk Utility is used to format the new device after drive mode changes are made.

**READ THIS FIRST!** Changing drive modes with Glyph Manager will require you to re-format the GT 062, and result in erasing all of the current data on the drive. Make sure you backup all data before doing so!

To change the drive mode, follow these steps:

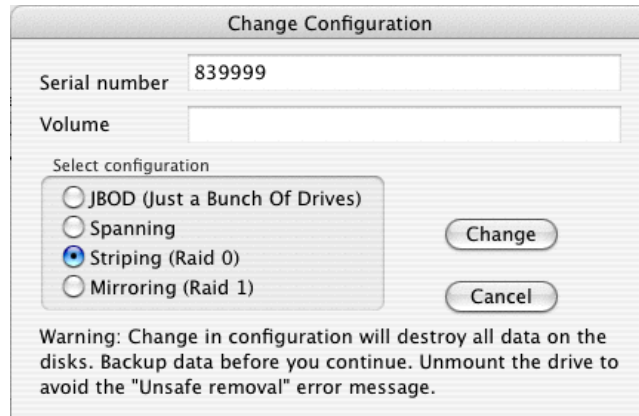
1. Install Glyph Manager software.
2. Open Glyph Manager software. If you have more than one GT 062 connected, choose the desired unit from the list on the left. You can identify the units by their volume names, or by their serial numbers, which are located on a sticker on the bottom of each unit. The serial number in Glyph Manager should match the last six digits of the P/N on the sticker.



3. Un-mount the volume(s) associated with the unit you are configuring by dragging them to the trash in the Finder. **This is very important to ensure successful drive mode change because it forces Mac OS to “forget” the current configuration.**

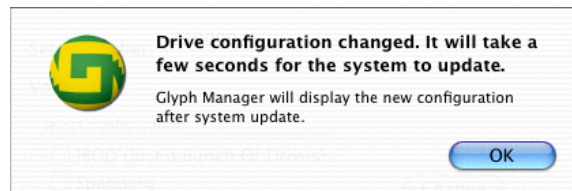
4. Click the **Change Configuration** button.

5. Select the desired configuration on the following screen and click the **Change** button.

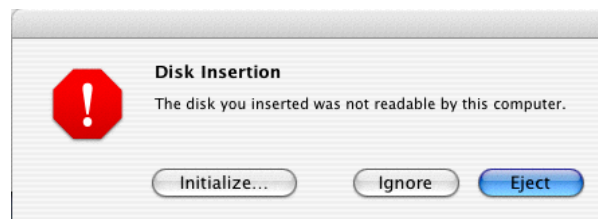


6. The next window requires that you verify the change request. Click **OK** to change the drive configuration. **NOTE: ALL DATA ON THE DRIVES WILL BE DESTROYED.**

7. The next window reports that the drive configuration has changed. After a few seconds the system will update, and Glyph Manager will display the new drive configuration. Click **OK** in this window.



8. At this point you **may** see the Mac OS Disk Insertion window. If you change to JBOD mode, you may see two of these windows. Now that the drive configuration has changed, Mac OS has re-discovered the GT 062 and prompts you to format the newly configured device. If you see the window below, click **Eject**. If you do not see this message, simply go to step 9.



9. Power off the GT 062, unplug the FireWire cable, plug the cable back in, then power it back on again. **This is important to force Mac OS to "forget" any current drive information.**

10. If you get the Disk Insertion dialog box, this time click **Initialize** which will open Disk Utility. If not, open Disk Utility from your System Volume > Applications Folder > Utilities Folder, and format the new volumes. Mac OS X formatting instructions can be found later in this manual.

## Mac OS X Formatting Instructions

Since your GT 062 comes pre-formatted for Macintosh you don't need to format them on installation. If you decide to reformat or partition your drive at a later date, use Disk Utility (supplied with the Mac OS X operating system).

*Caution: This procedure will destroy any data currently on the drive. Before formatting a drive, save any important data it contains.*

1. Open Disk Utility:

- Double click on your internal hard drive mounted on the desktop
- Open Applications Folder > Utilities Folder > double click on Disk Utility

2. Select your GT 062 drive(s) from the list on the left. The top entry represents the FireWire device and the entry underneath it represents the volume associated with that device. Click on the top device which will say something like "XXXGB Glyph Technologies".

3. Click the "Erase" tab on the right side of the screen.

4. Choose the desired volume format from the drop-down list. Glyph recommends the default "Mac OS Extended (Journaled)".

5. Click in the "Name" field and type the desired name for the drive. This name will identify the drive on the desktop.

6. Click the "Install Mac OS 9 Disk Driver" button if you would like your drive to be compatible with OS 9.

7. Click the "Erase" button to erase your drive. Your new drive should automatically mount on the desktop as a Glyph volume.

## Mac OS 9 Formatting Instructions

Since Glyph drives come pre-formatted for Macintosh you don't need to format them on installation. If you decide to reformat or partition your drive at a later date, you can use the Erase Disk command in the Mac OS 9 operating system. This command will erase all the data on a volume and create a new file system. Erase disk will not allow you to re-partition a FireWire drive or create a different volume structure than what was previously there.

*Caution: This procedure will destroy any data currently on the drive. Before formatting a drive, save any important data it contains.*

1. Select the volume by clicking on it once in the Finder

2. Go to the Special menu and select Erase Disk... The Erase Disk dialog box opens to verify your decision to erase the disk.

3. In the Name field, enter the new name for the disk or leave the name as it is.

4. In the Format drop-down menu, choose an Extended volume and click "Erase".

# Setting up the GT 062 with Windows XP and Vista

## Installing the Hardware

1. Position the GT 062 by placing the unit on a flat, level surface, or install the unit into a rack with one of Glyph's rack kits. Caution: Speakers are magnetic devices; they can harm your data if they're too close to your hard drives or tapes.
2. Connect the power cable. Make sure that the power is off on all of your computer equipment and the GT 062. Connect the power cable to the back of the GT 062. Plug the three-prong plug into an appropriate power receptacle, preferably with surge and spike protection.
3. Connect the FireWire 800 or FireWire 400 cable. Plug one end of the cable into your computer's FireWire port, and the other into the back of the GT 062. The two FireWire 800 ports are functionally identical, so it doesn't matter which one you use.
4. Power up the GT 062 and power up your computer.

## Understanding Glyph Manager Software for Windows XP and Vista

The Glyph GT 062 ships with Glyph Manager software, a utility for Mac OS X and Windows. When a GT 062 is connected to the computer either by USB, FireWire 400 or FireWire 800, information about the drives contained within the GT 062 will be displayed. Glyph Manager essentially does two things:

1. Configures the GT 062 in one of the four drive modes: JBOD, Spanning, RAID 1, and RAID 0

2. *When configured in RAID 1 mode only*, Glyph Manager constantly monitors the health of the drives and displays the health status. When a problem is detected, Glyph Manager alerts the user by animating in the Mac OS X dock or displaying an error balloon from the Windows System Tray. Data can then be backed up before any is lost due to drive failure.

**NOTE:** *Glyph Manager does not, however, format your GT 062. After configuring your GT 062 in one of the four drive modes, you must take further steps to format your GT 062 and prepare it for use. These steps are explained in the next sections.*

## Glyph Manager Installation in Windows XP and Windows Vista:

Insert Glyph Manager CD. To get the latest version of Glyph Manager, go to the support section of [www.glyphtech.com](http://www.glyphtech.com) and download the version for your operating system.

Double click the file called setup.exe.

Accept the End User Licensing Agreement.

Accept (or change) the target install folder.

The installation will create a Start Menu folder by default. Check the box marked "Don't create a Start Menu folder" if a Start Menu folder is not desired. The install routine will NOT create a desktop icon by default, check the box marked "Create a desktop icon" if one is desired.

Note: The Glyph Manager will start automatically when the computer is booted. Since there are options to disable this automatic launch of Glyph Manager, it is recommended that at least one of the above options (icon or Start Menu folder) be used to provide a manual way to launch the Glyph Manager.

The final step of the installation provides three options:

View readme.doc

Launch Microsoft .NET Framework Version 2.0

Launch Glyph Manager

The readme.doc contains support contact information and should be reviewed.

Glyph Manager requires Microsoft .NET Framework Version 2.0 to be installed. It is recommended that this option be allowed. If .NET Framework Version 2.0 is already installed, the Glyph Manager installation will not attempt to overwrite what's already there. If the installation does detect an existing .NET Framework Version 2.0 already installed, a "Maintenance Mode" dialog box will appear offering the choice to "Repair" or "Uninstall". Neither of these options should be selected and the Cancel button should be clicked. Taking this action will require confirmation by clicking Yes in response to the "Are you sure..." message that follows. Lastly, click Finish in the Setup Cancelled dialog box.

### **Glyph Manager Operation in Windows XP and Windows Vista:**

The Glyph Manager will start automatically and will display a Glyph icon in the lower right corner of the system tray. Right clicking on this icon and then selecting Show will invoke the Glyph Manager to the screen.

When a GT 062 is connected to the computer either by USB, FireWire 400 or FireWire 800, information about the drives within the 062 will be displayed.

To change the mode of the drives, click the Change Drive Configuration button and select the desired configuration on the following screen.

Note: After changing drive mode, it is necessary to utilize the Windows Control Panel/Administrative Tools/Computer Management/Disk Management to format the drives in their new configuration before they will be usable.

The Glyph Manager menu options are as follows:

"File" contains the method to close the program.

"Tools" contains Options with four settings involving the starting and stopping of Glyph Manager.

"Help" contains About Glyph Manager information as well as help files.

The last line of Glyph manager tells you the Windows policy settings for your GT 062. If the line reads "quick removal – BAD", then you may experience slow write speeds to the Glyph drive. The default Windows settings for FireWire-connected drives can reduce your Glyph drive performance by as much as 90%. This problem is easily corrected, just follow the instructions in the Glyph document

**630012\_WinXP\_Vista\_write\_performance.pdf.**

This document is available on the support pages of our website and also on the Glyph Manager CD.

Known Restrictions in Glyph Manager Release 2: Windows Vista requires Service Pack 1.

## **Windows 2000 / XP / Vista Formatting Instructions**

1. Right-click My Computer and click Manage.
2. In the Computer Management window, under Storage, click Disk Management.

The Write Signature wizard pops up.

3. Use the wizard to write a signature to the new drive. If you want only one partition we suggest using a primary partition and selecting the maximum size. In most cases you'll want to use NTFS volumes, this is the default for Windows 2000, Windows XP and Vista. Choose FAT32 if you want to use the drives with Windows 98 or ME, or if you want to use the drive with Windows and Mac OS.
4. Formatting will take a few minutes, after which your drive will be ready to use.

## **Windows 98 / 98SE Formatting Instructions**

1. From your computer's task bar, go to Start > Programs > MS-DOS Prompt.
2. At the prompt, type fdisk and press Enter. You'll see a long message about disk support.
3. Enter Y (type Y and press Enter).
4. You are invited to make a choice. Enter 5 to change the current fixed disk drive. MS-DOS displays the connected disk drives.
5. Enter the number of the disk that has no corresponding drive letter.
6. You are invited to make a choice (same list as in Step 3). Enter 1 to create a primary DOS partition. Your computer verifies the drive's integrity, after which you are asked to choose whether you want to use all the space available.
7. Enter Y to opt for using the maximum available space. Your computer again verifies the drive's integrity.
8. When the drive's integrity has been verified, press ESC (Escape) three times to exit fdisk.
9. At the prompt, type exit.
10. Restart your computer.

Your new drive is now ready to use.

# More Information

## GT 062 Features

Brushed, stainless steel face plate 1/8" thick (3MM)  
Scratch-resistant black powder-coated aluminum chassis  
Engineered to support professional audio and video  
Supports four software-selectable drive modes: RAID 0, RAID 1, JBOD, and Spanning  
84MB/sec sustained transfer rate  
Internal power supply, no wall wart, internal quiet fan  
Ships in hard-shell plastic carrying case  
3 Year Warranty  
2 Year Free Basic Data Recovery  
Advance Replacement in 1st year of warranty

## GT 062 Specifications

Part Number	GT0621F-xxx (xxx is equal to total capacity)
Interfaces	(2) 9-pin FW800 rear ports (1) 6-pin FW400 rear port (1) USB 2.0 Hi-speed rear port
Bridging Chip	Oxford 924
Maximum Transfer Rate	FireWire 800: 100MB/sec (800Mb/sec)
Sustained Transfer Rate	FireWire 800: >84MB/sec
Dimensions	H 1.7" x W 8.6" x D 9.5"
Configuration	Desktop enclosure (rack mount optional)
Weight	5.9 lb. / 2.7 kg
Internal Power Supply	Universal 100-240v 50/60 Hz
OS Compatibility	Mac OS 8.6, 9.X, 10.X Microsoft Windows 98SE, ME, 2000, XP, Vista Modern Unix-based, Linux, or BSD
Warranty	3 Years 1 Year Overnight Advance Replace 2 Years Free Basic Data Recovery

## Content Creation Applications

Qualified with Final Cut Pro, Avid Xpress, Adobe Premiere.  
Qualified with all major audio production packages that support FireWire storage, including Digidesign Pro Tools, Steinberg Nuendo and Cubase, Apple Logic, MOTU Digital Performer, Cakewalk Sonar, Sony Vegas and more...

## Configuration

The GT 062 can be rack mounted in a standard 19-inch rack with Glyph's optional rack kits. There is a single kit (part# GT-RACKEAR) for mounting one drive, and a dual kit (part# GT-RACKEAR2) for mounting two drives. The dual kit allows any two of Glyph's GT Series tabletop drives to be mounted in a single rack space.

## About FireWire

FireWire is an implementation of the IEEE 1394 serial bus standard. It not only supports automatic configuration (“plug and play”) and hot-swapping of devices, it’s fast, and best of all it’s reliable for audio/video as well as for computer peripherals. FireWire supports peripherals in a tree-like structure, and it allows peer-to-peer device communication—e.g. between a scanner and a printer—to take place, without using system memory or the CPU. With FireWire you can hook up to 63 devices to the same bus, with cable lengths of up to 4.5 meters (14 feet) including internal cabling, allowed between devices. Its cable is convenient and can also carry power. This allows low-consumption devices to operate without a separate power cord, by using power supplied by other devices on the bus.

## About FireWire 800

- FireWire 800 supports speeds up to 800 Mb/sec, twice as fast as FireWire 400.
- If your computer does not have built-in FireWire 800, you’ll need a PCI card to achieve a true FireWire 800 connection.
- Most 800 ports are Bi-Lingual, which means they speak both FireWire 400 and FireWire 800.
- If you connect a 400 device to an 800 device, you will be running at 400 speed maximum.
- FireWire is forward-compatible and back-compatible, but the bus always runs at the speed of the slowest link.
- Beta cables are used to connect 800 devices to 800 devices.
- Bi-Lingual cables are available to connect 400 devices to 800 devices.
- Bi-Lingual cables have a 9-pin Bi-Lingual connector at one end and a 4-pin or 6-pin FireWire 400 connector at the other end

# Frequently Asked Questions

Q: How do I know if I have the correct version of Glyph Manager?

To get the latest version of Glyph Manager, go to the support section of [www.glyphtech.com](http://www.glyphtech.com) and download the version for your operating system.

Q: Do I need to have Glyph Manager installed to use the GT 062?

No, Glyph Manager is used for configuration and monitoring only. It is required to change drive configuration or monitor drive health when in RAID 1 mode. If you set the unit to RAID 1 mode, for example, Glyph Manager will warn you of potential drive failure. It is not necessary to install Glyph Manager, but it is recommended.

Q: Do I need any drivers to use the GT 062?

No drivers are required to read and write to the drive using FireWire or USB. A driver is required to use Glyph Manager to change configuration or monitor drive health. All necessary drivers are installed as part of the Glyph Manager installation.

Q: Do I need RAID software?

RAID software is not needed because the RAID intelligence is built into GT 062 hardware. To configure as a RAID 0 or RAID 1 array, use the Glyph Manager software to switch drive modes, and format the drive. Instructions for re-initializing your drive are included in this manual.

Q: My Windows computer doesn't show the drive in My Computer. What's up?

The default format on the GT 062 is for the Macintosh, and Windows doesn't recognize it. Once you have connected the GT 062 to your Windows PC, you have to re-initialize it for use with Windows. For Windows XP and 2000, that's going to be NTFS format; for Win98/SE, that will be FAT32 format. Instructions for re-initializing your drive are included in this manual.

Q: I'm still running Mac OS 9 or Win/ME. Can I still use the GT 062?

Yes. You can connect either the FireWire 400 port or the USB port on the drive to your OS 9 or Win/ME machine. You cannot run Glyph Manager to change configuration or monitor drive status, however the GT 062 will run in the last drive mode that it was set to.

Q: What are the differences between FireWire 800 and FireWire 400?

Speed and Protocol. FireWire 800 has a max transfer rate of 800 Mb/sec (about 100 MB/sec peak). FireWire 400 has a max transfer rate of 400 Mb/sec (about 50 MB/sec peak). The higher bus speed helps with things like large file copies and RAID, where FireWire 400 bus speed can be a limiting factor. FireWire 800 uses IEEE-1394b "Beta" protocol; FireWire 400 uses IEEE-1394a "DS" protocol.

For more information, be sure to check out the Glyph website at [www.glyphtech.com](http://www.glyphtech.com). There is information posted there concerning FireWire 800/1394B, as well as information about the rest of Glyph's product line.

Q: How can I make my drive work across Windows and Mac platforms?

The only file system that works well between Mac OS and Windows is FAT 32, otherwise known as MS-DOS file system. This is a native Windows file system, but Mac OS 9 and X will mount FAT 32 volumes. Mac OS 9 and 10.1.x would only work with FAT 32 partitions less than 32GB. While Mac OS 10.2.x increased that limitation to 128GB, it wasn't until Mac OS 10.3.x that you could use FAT 32 partitions of any size. Mac OS 10.3.x can additionally read NTFS volumes but cannot write to them. See next question for information specific to Pro Tools software.

Q: How can I use my drive with Windows and Mac Pro Tools systems?

If you are trying to use a hard drive between Windows and Mac Pro Tools systems, FAT 32 will not work for you because a Mac running Pro Tools can only work with HFS formatted volumes. Your best option is to install MacDrive ([www.mediafour.com](http://www.mediafour.com)) on your Windows machine to mount your Mac formatted volumes.