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1. Introduction

Thank you for purchasing the Fujitsu 2.5" External Hard Drive.

Please take the time to read this manual first to familiarize yourself with the **2.5" External Hard Drive** and the bundled software.

The **2.5" External Hard Drive** hard drive is ideal for storing, sharing or backing up your valuable data. Don't be fooled by the **2.5" External Hard Drive's** size. The high capacity drive features a rugged form factor, that includes extensive shock mounting, and a sleek, durable enclosure.

The **2.5" External Hard Drive** is features a convenient, integrated cable, which wraps neatly around the drive when not in use. The 2.5" External Hard Drive is completely powered by your notebook, so no AC adapter is required.

In addition the *2.5" External Hard Drive* protects your data from the rigors of travel with a unique shock mounting system and comes bundled with a **Data Protection Software Suite** that offers backup and synchronization for the Windows® OS.

So whether you are at home, at the office or on the go, the *2.5" External Hard Drive* is the ideal mobile solution for transferring, storing and protecting your valuable data.



2. GETTING TO KNOW YOUR 2.5" EXTERNAL HDD

A. System Requirements

Hardware: Pentium® CPU II or Apple® G3 or later

32MBs RAM USB Port

CD ROM or CD-RW drive

Operating systems:

Microsoft®: Windows® 2000 Professional

Windows® XP Home and Professional

Windows® Vista

Apple®: OS 9.2 or higher

OS X 10.2 and later

B. Package Contents



Fujitsu 2.5" External Hard Drive



1 meter extension cable



USB Y-cable



Software CD



Quick Start Guide

Data Protection Suite for Windows®

Apricorn's EZ Gig® II Backup Software Microsoft® SyncToy (free download link) SMART-ER® Hard Drive Health Monitor

C. Specifications

Features	Benefits		
Ultra-Portable Design	Ideal to take between home and the office or on trips		
Backup Software	Gives you the flexibility to backup a single file or your entire system, OS settings and all		
Disaster Recovery Software	Create a Disaster Recovery Clone of your hard drive. In the event of a hard drive failure you can be up and running in minutes		
Synchronization Software	Provides a variety of options for synchronizing your system for file sharing or backup		
Plug-n-Play	Drivers not required for Windows XP, 2000, Mac OS 9.2 or later, Mac OS X or later		
Hot Swappable	No need to power down your computer, just plug and go		
Moving Files	Excellent for synchronizing data between desktop and notebook computers		
Compatibility	PC and Mac® hardware compatible		
Bus Powered	No external power required		

One gigabyte (GB) = one billion bytes; accessible capacity may be less and actual capacity depends on the operating environment and formatting.

3. SET-UP

A. Installation

Windows® 2000, XP and Vista:

- Ensure your computer is turned on.
- 2. Plug the *2.5" External Hard Drive* USB cable into the appropriate open port on your computer.
- 3. The "New Hardware Found" message will appear briefly on your computer screen.
- 4. Windows® 2000, XP and Vista will install the device drivers included with the operating system. No user intervention is required.

Macintosh®:

- 1. Ensure your computer is turned on.
- 2. Plug the *2.5" External Hard Drive* USB cable into the appropriate open port on your computer.
- 3. The operating system will automatically mount the drive and it will appear on your computer.





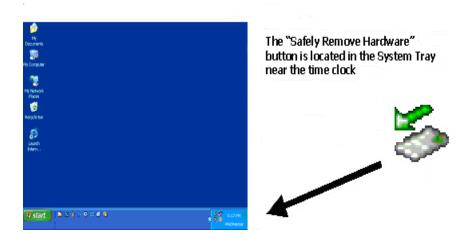


Note: In the rare case that the 2.5" External Hard Drive does not power up on a single USB connection, the included USB Y-cable may be required (Pictured above). Simply plug the two Y-cable USB connectors (black and grey connectors) into the two USB ports on your notebook, connect the 2.5" External Hard Drive, and the External Hard Drive will power.

B. Disconnecting

Windows® 2000, XP and Vista

- 1) Locate the system tray on your Windows Desktop (the system tray is the part of the taskbar that displays the date and time).
- 2) Click on the "Safely Remove Hardware" icon system tray. A dialog box will appear.
- Click 'Safely Remove hard disk Drive (D:) in the dialog box.
 Note: Your drive letter may be different.
- 4) Wait for few seconds until the system prompts 'The hard disk storage device can now be safely removed from the system." Click OK, and then unplug the 2.5" External Hard Drive.





To protect against unexpected data loss, Windows verifies that all files on the disk are closed before allowing the USB device to be removed. If you receive an error message that says "The device cannot be stopped right now. Try stopping the device again later." Close all programs that are using files from the drive, then repeat steps 1-4.

B. Disconnecting

Macintosh®

- The drive will need to be dismounted. Do this by dragging the 2.5"
 External Hard Drive on the desk top to the "Trash Can".
- Wait a few seconds for the drive to unmount and then you can safely remove the drive 2.5" External Hard Drive.





To protect against unexpected data loss, OS X verifies that all files on the disk are closed before allowing the device to be removed. If you receive an error message that says "The disk "Fujitsu HDD" is in use and could not be ejected". Close all the programs that are using files from the drive, then repeat steps 1 and 2.

Reformatting Your Hard Drive

The **2.5"** External Hard Drive's hard drive is preformatted with the FAT32 Windows File System. While the FAT32 file system is visible to the largest number of operating systems, FAT32 does have limitations. You cannot save a file larger than 4GB. In Windows 2000, XP and Vista you can not create a partition larger than 32GB. The **2.5"** External Hard Drive will be usable in your system, however we recommend that you reformat the hard drive using the following method for Windows 2000, XP and Vista:

Reformatting Windows® 2000, XP and Vista (NTFS File System):



Reformatting your hard drive will destroy any data on the hard drive. Backup any data before you continue with this operation.

- Open "My Computer" or "Windows Explorer".
- 2. Right click on the *Fujitsu HDD* drive and select *Format*.
- 3. This will open the format window:
 - a. In the **File system** drop down box, select NTFS.
 - b. Use "Default allocation unit" size.
 - c. Under **Format options**:
 - i. Select Quick Format. (Optional)
 - ii. Do not **Enable Compression**.
 - Click on the Start button.
- 4. The drive will now be reformatted.
- 5. Verify the reformatting of the drive:
 - a. Go to **My Computer** or **Windows Explorer**, right click on the *Fujitsu HDD* drive, and select **Properties** from the list.
 - b. This will open the *Fujitsu HDD* hard drive properties. The **File System** should now read NTFS.

Reformatting with Mac OS X



Reformatting your hard drive will destroy any data on the hard drive. Backup any data before you continue with this operation.

- 1 Plug the cable from your *2.5" External Hard Drive* into your computer. The drive will appear as a drive on your desktop.
- Open the "Applications" folder on your hard drive, go to the "Utilities" folder and select *Disk Utilities*.
- Select the drive from the list: Note that a description of the drive appears in the window.
- 4. Select the **Erase** tab on the top of the window.
- 5. From the volume format drop down list, select the **Mac OS Extended**.
- 6. Enter *Fujitsu HDD* into the **Name** box.
- 7. Select the check box next to **Install Mac OS 9 Drivers**. This will allow you to see your *Fujitsu HDD* hard drive if you boot to Mac OS 9.x
- 8. Click the **Erase** button: An alert will appear to confirm the erase process.
- 9. Click **Erase**: to start the formatting process.
- To confirm that the 2.5" External Hard Drive hard drive is properly formatted, Select the Fujitsu HDD, then Select: File, Get Info. The format should read Mac OS Extended.

4. SOFTWARE

Before You Backup!

With more of your work and personal life becoming digitized, backups are essential. Backups protect and preserve precious data, music files, digital photos, digital videos and other important computer documents from being lost forever.

Follow the next few steps before backing up to help the process run smoothly:

- Ensure there are no file system errors by running Windows Check Disk (or a similar check disk utility) on your computer's internal hard disk drive.
- 2. Defragment your computer's internal hard disk drive by using *Windows Disk Defragmenter* (or a similar disk defragmenter utility).
- 3. Make copies of any important files or data to another drive.
- 4. Hard drive backups work best when done on a regular basis. Take a moment to establish a backup plan that works for you.

Disk Clone and Disk Image will both create a full backup of your system.

Use Disk Image and create a full backup each day, week or month depending on how critical your data is and how far back you would like to recover a version of the files you are working with.

Use Disk Clone and create a full backup if you are upgrading to a larger hard drive or anytime you want or need to have an exact bootable clone of your hard drive.

5. Once you have decided upon your plan, proceed to the appropriate sections in this manual to either use Disk Clone or Disk Image.



Whenever the *2.5" External Hard Drive* is used to store a Cloned Image the data cables on the *2.5" External Hard Drive* should be removed while booting or rebooting the computer. IF NOT DAMAGE CAN OCCUR TO YOUR OPERATING SYSTEM

Installation of Apricorn's EZ Gig II for Windows®

- 1. Insert Fujitsu CD into your CD-ROM drive.
- 2. Setup screen will pop up. Click *EZ GIG II* button.



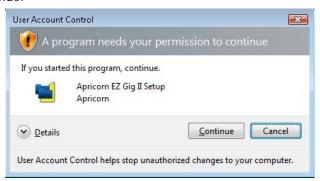
- 3. EZ Gig II installation screen will pop up.
- 4. Follow instructions for installation.



EZ Gig II installation instructions for Windows Vista:

Windows Vista's User Account Control helps stop unauthorized changes to your computer. The User Account Control window pops up in Administrator Approval Mode whenever a program tries to install on your Windows Vista system. If the User Account Control window does not pop up, please skip to the EZ Gig II installation.

When the User Account Control window pops up there will be a warning symbol and message that reads, "A program needs your permission to continue." The instructions will read "If you started this program, Continue."



Please click the Continue button and proceed to the EZ Gig II main installation screen.

Change the default "Power Options" for Windows Vista operating systems:

Be default Windows Vista operating system will "Turn display off" after 20 minutes and "Put the computer to sleep" after 1 hour of keyboard or mouse inactivity. It will take more than 20 minutes to backup most of today's larger hard drives. If the system goes into display is turned off or the computer goes to sleep during the backup, your backup may fail. This will not damage your original hard drive in any way but you will have to restart the backup. To avoid this issue change the default "Power Options" before starting the backup on Windows Vista Systems.

From your Window Vista Start menu type "Power Options" in the "Start Search bar" and the "Power Options" program will be listed in the results window. Alternately you can go to Start Menu – Control Panel – Power Options. Click on "Power Options" to launch the program. On the left window click on "Choose when to turn off display" and make the changes as listed below.

Turn Display Off Never
Put computer to sleep Never

Once you have completed the backup go to "Power Options" and restore the default settings.

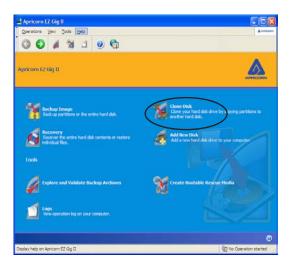


Read all instructions carefully before cloning. This is only a quick overview of how to use Disk Clone. For detailed instructions, read Chapter 7 "Transferring the system to a new disk" located in the EZ Gig II manual located on the Data Protection Suite CD

Cloning your hard drive with Disk Clone

EZ Gig II allows you to clone your hard drive from inside the Windows operating system or by booting directly to the Data Protection Suite CD provided in the kit. If your system is running normally we recommend that you clone your hard drive by starting up the program inside the Windows operating system.

- 1. Ensure your *2.5" External Hard Drive* is connected to your computer.
- To start EZ Gig II, click Start > Programs > Fujitsu > EZ Gig II and click on EZ Gig II. This will open the main screen of EZ Gig II. You can also click on the EZ Gig II icon on the Desktop.
- Under New Disk Deployment on the main screen double click on the "Disk Clone" icon to open Disk Clone Wizard.



4. When you see the **Welcome to the Disk Clone Wizard!** screen. Click **Next** to continue.



5. The **Clone Mode** screen will appear. Select **typical** and click **Next** to continue.



6. If the hard disk drive to receive the cloned data is new or blank, proceed to step 10. If the hard disk drive to receive the cloned data either contains data or is formatted, proceed to step 7.

 The Source Hard Disk screen will appear. Select the appropriate source hard disk. The interface and disk size can be used to help identify the correct disk number. Click Next to continue.



8. The **Destination Hard Disk** screen will appear. Select the appropriate destination hard disk. The destination hard disk is typically your new hard disk drive. Click **Next** to Continue.



9. The Nonempty Destination Hard Disk screen will appear when you have selected to transfer data to a drive that already contains data. If you have chosen the proper source and destination drives, then select the "Delete partitions on the destination hard disk" button. Click Next to continue.



Note: If you need to confirm that you have selected the proper source and destination drives, click the Back button to check.

10. The next screen outlines the operations that Disk Clone will perform.

Click **Proceed** to continue with cloning your hard disk drive.



12. The computer will reboot and the cloning process will now begin.



Do not turn your computer off during this process. However, your computer will reboot itself during the clone process (this is normal) and you should let the process continue until you see the congratulations screen. When the congratulations screen appears, turn off your computer using the power button. Then unplug the Apricorn product from the computer. DO NOT REBOOT THE COMPUTER WITH A CLONED HARD DRIVE IN THE Apricorn product. To do so may alter some settings of the Windows operating system.

13. You have completed the cloning process and now have an exact bootable clone of your hard drive.



Read all instructions carefully before cloning. This is only a quick overview of how to use Create Image Wizard in Typical Mode using the default options. For detailed instructions including how to set the options manually read Chapter 5 "Creating Backup Archives" located in the EZ Gig II User Guide located on the Fujitsu software CD that came with your Fujitsu 2.5" External Hard Drive. Alternately if you have installed EZ GIG II on Windows, go to: start/All Programs/Fujitsu/Apricorn EZ Gig II/Apricorn EZ Gig II User Guide

Imaging your hard drive with Create Image Wizard

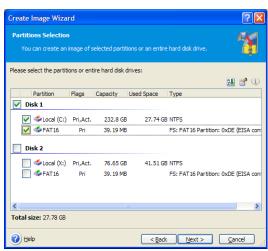
- Under certain conditions, Apricorn EZ Gig II may require your computer to reboot. Please save all work before starting Apricorn EZ Gig II.
- To start EZ Gig II, click Start > Programs > Fujitsu > EZ Gig II and click on Apricorn EZ Gig II. This will open the main screen of EZ Gig II. You can also click on the Apricorn EZ Gig II icon on the Desktop.
- Double Click on the **Backup** icon from the main screen to open Create Image Wizard.



4. This will bring up the **Welcome to Create Image Wizard** window. Click **Next** to continue.

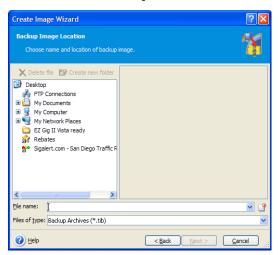


At the Partition Selection screen, select the disk or partition(s) you
would like to back up by checking the appropriate box. Click Next to
continue.



At the Backup Image Location window, find your Fujitsu 2.5" External
 Drive (it will have the name Fujitsu HDD, and the drive letter will vary depending on the configuration of your computer).

7. Enter the image name in the *File Name* text box, located near the bottom of the window. You can enter any name you wish. It might be a good idea to use the date, such as Jan2606 for January 26 2006. Click *Next* to continue.



8. The **Choose Backup Options** window will open. Select **Use Default Options** and then click **Next** to continue.





Note: For detailed instructions on how to set the options manually read Chapter 5 "Creating Backup Archives" in the "Apricorn EZ Gig II User Guide" located on the Fujitsu software CD that came with your Fujitsu 2.5" External Hard Drive. Alternately if you have installed EZ GIG II on Windows, go to: start/All Programs/Fujitsu/Apricorn EZ Gig II/Apricorn EZ Gig II User Guide

 The Image Archive Comments window will open. You can use this window to write comments about the image (such as the imaging date, computer, operating system, etc.). Click Next to continue.



10. This will open the Apricorn Disk Image Archive File Creation Script window. Verify the operations listed in the white box. If there are corrections to be made, click the *Back* button to change selected options. The selected operations will not execute until the Proceed button is clicked. If everything is correct, you can click the *Proceed* button to create the image file.



- 11. When Disk Image completes the selected options, the Congratulations screen will appear.
- 12. BACKUP COMPLETE!!! Your Fujitsu 2.5" External Hard Drive now contains a complete image of the selected drive or partition(s).

Microsoft® SyncToy

SyncToy provides an easy to use, highly customizable program that helps to simplify the process of copying, moving, and synchronizing directories between your computer and your Fujitsu External Hard Drive.

Most common operations can be performed with just a few clicks of the mouse, and additional customization is available without added complexity. SyncToy can manage multiple sets of folders at the same time; it can combine files from two folders in one case, and mimic renames and deletes in another. Unlike other applications, SyncToy actually keeps track of renames to files and will make sure those changes get carried over to the synchronized folder.

The Fujitsu software CD provides a free download link to MicroSoft® SyncToy

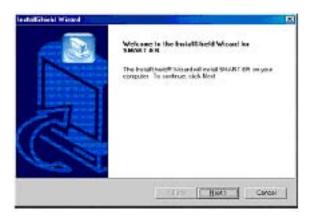
- 1. Insert Fujitsu CD into CD-ROM drive.
- 2. Setup screen will pop up. Click *Microsoft® SyncToy* button.



- 3. Follow instructions for download.
- 4. Follow instructions included in Microsoft® SyncToy download for installation of the SyncToy program.

SMART-ER® Hard Drive Monitor for Windows

- 1. Insert Fujitsu CD into CD-ROM drive.
- 2. Setup screen will pop up. Click SMART-ER button.
- The SMART-ER Setup program will appear (pictured below) with a text file containing your serial number. Click <Next>



- 4. The License Agreement Dialog appears. Please read through first and Click **<YES>** if you accept the terms.
- Enter your name, organization and serial number from the text file. Click
 Next>
- Choose the Destination Drive location. This will select the folder where Setup will install the files. Click <Next>
- Install wizard is complete! Select, Yes, I want to restart my computer now.[™] Click <Finish> and the computer will automatically reboot with SMART-ER installed.

Once you reboot your system, you will notice a Blue S in your system tray. Your system tray is located in the lower right-hand corner of your desktop. By pointing your mouse over the blue S, you will get a message **SMART-ER status: OK**

5. TECHNICAL SUPPORT

A. Contact Information

Fujitsu provides the following helpful resources for you:

- Setup, Software and FAQs sections of the User's Guide.
- Fujitsu's Website http://us.fujitsu.com/hdd/external
 This gives you the ability to check for up-to-date information.
- Or call the Technical Support Department
 Software: 1-800-925-2168 Hardware: 1-800-626-4686
 Fujitsu's Technical Support Specialists are available from 8:00 a.m. to 5:00 p.m., Pacific Standard Time from Monday to Friday.

B. RMA Policy

An RMA (Return Merchandise Authorization) tracking number must be issued by Fujitsu. If you need to return or replace your *2.5" External Hard Drive*, Fujitsu requires that you perform the following steps:

- Simply call Fujitsu's technical support department with your 2.5"
 External Hard Drive part number and a description of the problem(s) you are experiencing.
- 2. If the Fujitsu representative finds cause for a return, they will issue an RMA number. Please write this number down.
- 3. Fill out an RMA authorization form with your package. The RMA form is available on-line at http://www.fujitsu.com/us/services/computing/storage/hdd/warranty/rma.html.
- 4. Please send the package to the following address, make sure the RMA# is written on the exterior of the package:

Fujitsu			
RMA#:			
12191 F	<i>Kirkt</i>	nam	Road
Poway,	CA	920	064

The purchaser shall be responsible for any loss or damage to the returned product until it is received by Fujitsu. Purchaser should consider obtaining insurance with respect to shipping the product.

WARRANTY CONDITIONS

One Year Limited Warranty:

Fujitsu offers a 1-year warranty on the **2.5" External Hard Drive** against defects in materials and workmanship under normal use. The warranty period is effective from the date of purchase either directly from Fujitsu or an authorized reseller.

Disclaimer and terms of the warranties:

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6. FAQs

1. What is USB 2.0?

USB 2.0 represents the next generation of PC peripherals and connectivity. USB 2.0 is the first major evolution of the Universal Serial Bus standard, which was originally designed to bring low cost connections and "plugand-play" consumer devices to the PC world. USB 2.0 adds new functionality to your laptop, by allowing faster connections and greater flexibility without the need for upgrading your existing USB devices.

2. Why USB 2.0?

Modern PC peripherals can run faster and do more than the original USB designers ever dreamed. The USB standard was upgraded to keep pace with the rapid advances in technology, and the explosion of new consumer devices. USB 2.0 host controllers add the faster speeds and greater flexibility than these new devices require. USB 2.0 will allow your computer to connect to the newest USB devices: High-Speed Video and Ethernet, ultra-fast scanners and disk drives, etc.

3. How much faster is USB 2.0?

USB 1.1 devices can communicate at about 12 Megabits/sec. USB 2.0 devices can communicate at speeds of up to 480 Megabits/sec

4. The 2.5" External Hard Drive power LED is on, but the drive is not automatically detected by the operating system.

The mass storage device drivers are not installed correctly or there is a resource conflict in the system. Use the Windows Add New Hardware Wizard to detect the drive, or, if the drive has already been installed, use the Windows Update Device Driver Wizard. Be sure that there are no resource conflicts in the Windows Device Manager before installing the drive.

5. The computer installs the device but operates at the slower USB 1.1 speed.

The drive is connected to a standard USB connector on your computer and cannot communicate using the high-speed USB 2.0 protocol. Verify that the USB host controller supports USB 2.0 transfer rates and that the USB host controller has the correct device drivers installed. If you are using the USB 2.0 hard disk drive on a standard USB connector on your computer, the high-speed transfers are automatically disabled and the USB 2.0 hard disk drive will operate as a USB 1.1 device. For more information on connecting to USB connectors on your computer, refer to your Notebook User's guide.

6. What software is included with my 2.5" External Hard Drive?

PC Software Includes: Apricorn's EZ Gig® II, a free download link for Microsoft® SyncToy and SMART-ER® Hard Drive Health Monitor.

EZ Gig® II for Windows is one of the most powerful yet easy to use backup utilities available. EZ Gig II is the second generation of the award winning EZ Gig Data Transfer Utility. It now supports transferring data via USB, PC Card, FireWire, or internal IDE Bus. EZ Gig II is comprised of two modules:

Disk Clone is ideal for users who require an exact copy of their hard drive. A cloned copy of a hard drive can be used for disaster recovery backup, or as a hard drive upgrade.

Disk Image takes a snapshot of your entire system and compresses it into a file half its original size. This method takes up less space, thus allowing multiple backups to a single drive. The Image option also includes a File Editor that allows the editing or restoration of individual files or folders and a password to be assigned to a backup image, providing security for your data. A detailed description for each image can be entered giving the user total flexibility to retain backups from multiple dates, or multiple computers.

Microsoft® SyncToy

SyncToy provides an easy to use, highly customizable program that helps to simplify the process of copying, moving, and synchronizing directories between your computer and your Fujitsu External Hard Drive.

Most common operations can be performed with just a few clicks of the mouse, and additional customization is available without added complexity. SyncToy can manage multiple sets of folders at the same time; it can combine files from two folders in one case, and mimic renames and deletes in another. Unlike other applications, SyncToy actually keeps track of renames to files and will make sure those changes get carried over to the synchronized folder.

SMART-ER® Hard Drive Health Monitor

By polling the S.M.A.R.T. data from a hard drive, SMART-ER gives the user advanced warning of a hard drive failure with a pop up message or e-mail to the IT administrator. Using less than 1MB of system resources, SMART-ER also monitors the hard drive free space and is compatible with Windows PC with IDE Hard Drives.

7. What is the difference between "cloning" and "imaging"?

Disk Cloning is a bit for bit copy of one drive to another. In doing so, a Clone can boot and run the operating system as if it is the original drive. The data is same on both drives. A Disk Image copies the data on the drive and stores it as a file. This file can be compressed to a smaller size to take up less space. The Image is not bootable.

8. The drive works at home but when I take it to work, I cannot see the drive in My Computer.

You may have a network drive that is mapped to the same letter as the **2.5"** External Hard Drive wants to use. You can use Disk Management (right-click My Computer, select Manage and then Disk Management) to assign a new drive letter. Locate the drive in the lower window and right click in the bar graph area. Right-click and select "change drive letter and path..." to change the letter to one that is not being used.

9. Is it possible to restore a single file from an image stored on my 2.5" External Hard Drive?

Yes. EZ Gig II allows you to mount an image as a "virtual" hard drive. You can access this "virtual" drive as if it was a physical hard drive. You would use your **Windows Explorer** or **My Computer** and copy the file or folder and paste it on to your hard drive.

10. Why am I unable to save a file larger then 4GB on to my 2.5" External Hard Drive?

Fat 32 has a file size limitation of 4 GB. If you are using Windows 2000 or XP, you can reformat the drive to NTFS. By reformatting the drive to NTFS, you eliminate the 4GB limitation, but you will also lose any data stored on the drive. Either reformat my 2.5" External Hard Drive to NTFS before using for the first time, or backup the data on 2.5" External Hard Drive before reformatting.

11. I am unable to format my 80GB or larger 2.5" External Hard Drive with FAT 32 in Windows 2000, XP or Vista?

Windows 2000 and XP limit a FAT32 partition to 32 GB. If you choose to format the drive in a larger the 32 GB partition, you will need to use the NTFS file system.

12. Can I boot Windows to my USB Device?

No. Because of limitations (both hardware and software) Windows is currently prevented from booting and running off a USB drive.



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