

**WARNING** - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**CAUTION** - TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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#### FCC Compliance Statements

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate frequency energy and, if not installed and used in accordance with the instructions, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to equipment off and on, the user is encouraged to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the distance between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

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# QuickStart Installation Guide

## Windows & Mac



Thank you for choosing Fantom Drives! Your Fantom Drives External hard disk has been built to the highest standard of quality and workmanship and, when used according to the instructions in this guide, will provide years of trouble-free operation. We at Fantom Drives take great pride in bringing personal satisfaction to each of our customers.

Your drive is compatible with all USB-capable Apple Macintosh computers running MacOS 10.2.8 (or greater) and PC-Compatible computers running Windows 2000, Windows XP, and Windows 2003.

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any part of any Product serviced hereunder. Be sure to remove all features, parts, options, alterations, and attachments not under warranty prior to returning the Product to Fantom Drives. Fantom Drives is not liable for any loss or damage to these items.

This limited warranty does not cover: (1) any consumables (such as batteries) supplied with this product; cosmetic damages; damage or loss to any software programs, data or removable storage media; or damage due to the Product such as but not limited to excessive heat or humidity, or modifications of this Product; (2) improper installation, operation, testing or maintenance of this Product; (3) power failure or connection to improper voltage supply; or; (4) attempted repair by any party other than Fantom Drives. This Warranty does not apply when the malfunction results from the use of this Product in conjunction with accessories, products or ancillary or peripheral equipment, or where it is determined by Fantom Drives that there is no fault with this Product itself. This Limited Warranty is invalid if the factory applied serial number has been altered or removed from the Product.

Repair or replacement as provided under this warranty is the exclusive remedy of the consumer. Fantom Drives shall not be liable for any incidental or consequential damages for breach of any express or implied warranty, breach of contract, negligence, strict liability or any other legal theory related to this product. Such damage include, but are not limited to, loss of profits, loss of data, loss of use of the product or any associated equipment, down time and purchaser's time. Except to the extend prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose on this product is limited in duration of this warranty.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long on implied warranty lasts, so the above limitation or exclusions may not apply to you. This warranty gives you specific rights; you may have other rights which vary from state to state.

## Introduction

Welcome, and thank you for purchasing the Fantom Drives Titanium Combo High Capacity Hard Disk from Fantom Drives.

In photos and illustrations in this guide, The following alert symbols are used in this guide:



This signifies important information for ALL users.



This signifies important information for USB 2.0 users.



This signifies important information for FireWire users.

The Fantom Drives Titanium Hard Disk can only sustain one connection type at any given time; the drive will appear as a FireWire device when connected via FireWire, and as a USB device if the USB cable is connected.

### USB 2.0 compatibility with USB 1.x

USB 2.0 ports are backward compatible with USB 1.x. However, if you connect the Drive to a USB 1.x port, it will operate at USB 1.x speeds.



## Parts & Accessories List

### The package should contain the following items:

- Fantom Drives Titanium Hard Disk
- Base Foot
- USB cable
- FireWire 400 cable (Combo models)
- AC Adapter and Power Cord
- Quick Start Installation Guide



If you are missing any items listed above, please fill out the customer support form at:

<http://www.FantomDrives.com/help>

*Please retain a copy of your receipt. You will need it if warranty repair service is required in the future.*

## System Requirements

### System Requirements for Mac

- Power Macintosh
- Mac OS X 10.2 or newer
- Available FireWire 400 Port (Combo models) or
- Available USB 2.0 or 1.1 port

### System Requirement for PC

- Pentium-based PC with 233 MHz or faster CPU
- Windows 2000, XP, or 2003
- Available FireWire 400 Port (Combo models) or
- Available USB 2.0 or 1.1 port

### Windows XP users:

In order to use the USB 2.0 connection, you must have at least Service Pack 1 for Windows XP.

## One Year Limited Warranty

Fantom Drives warrants this product (the "Product") against defects in material or workmanship as follows:

1. **LABOR:** For a period of one (1) year from the original date of purchase from Fantom Drives or its authorized reseller, Fantom Drives will repair defective Product (or, at its option, replace with a new or recertified product) at no charge. After this 1 year period, you must pay for all labor charges.

2. **PARTS:** For a period of one (1) year from the original date of purchase from Fantom Drives or its authorized reseller, Fantom Drives will supply, at no charge, new or rebuilt replacement parts in exchange for defective parts of this Product. Any replacement parts will be warranted for the remainder of the original warranty period or ninety (90) days from installation by Fantom Drives. All exchanged parts replaced under this warranty will become the property of Fantom Drives.

This warranty only covers the hardware components packaged with the Product. This warranty does not cover any software contained in, or included with, the Product; any such software is provided "AS IS". Please refer to any documentation included with the software for your rights and obligations with respect to the software.

This warranty extends only to you, the original purchaser. It is not transferable to any one who subsequently purchases the Product from you.

Proof of purchase in the form of a bill of sale (which is evidence that the Product is within the warranty period) must be presented to obtain warranty service.

To obtain warranty service you must take the Product, or deliver the Product freight prepaid, in either its original packaging, or in a package that provides the Product with a degree of protection equivalent to that of the original packaging, to Fantom Drives. Please contact Fantom Drives at the number listed on the reverse side for further information.

Fantom Drives is not responsible for any damage to, or loss of, any programs, data, or other information stored on any media or

**Q: Is the Drive compatible with Windows NT 4.0?**

A: No.

**Q: I do not see my Drive listed in the My Computer window, but it does appear in the Device Manager list.**

A: Right-click on My Computer. Select Manage in the pop-up menu. In the Computer Management window, select Storage, then select Disk Management. In the Disk Management window, you should see a list of available storage devices. Look for the Disk that has a capacity closest to your Fantom Drives External Hard Drive. Right-click on the right-hand box; in the pop-up menu select Delete Partition. Once you do this, it will say "Online" & "Unallocated". Right-click on the box and select Create New Partition in the pop-up menu. When the Partition Wizard appears, select Primary Partition and click on Next. You will see a default value for the Drive; click Next. You will then see a drive letter (you can change this drive letter if you wish); click Next. You will then be asked to format the Drive.

**Q: After I connected the Drive to my PC, I got the following alert message: HI-SPEED USB Device Plugged into non-HI-SPEED USB Hub." What does this mean?**

A: Windows 2000 and XP users will get this alert message if you plugged the Drive into a USB port that only supports USB 1.1. This is fine, except your Drive will operate USB 1.1 speeds.

**If an issue cannot be resolved by using our FAQ, please contact Technical Support via the Fantom Drives support site at <http://www.FantomDrives.com/help>**

## Base Installation

**Note:** Installation of the base requires a Philips head screwdriver.



1. Unpack the disk drive. Remove the drive and the base foot.



2. Using the Philips screwdriver, loosen the two screws on the bottom of the base foot by turning them a turn counterclockwise.



3. Slide the protruding nut heads into the groove on the bottom of the disk drive.



4. Once the foot is fully inserted into the groove, tighten the screws at the bottom of the base with the Philips screwdriver by turning them clockwise.



# FireWire & USB 2.0 Compared



## Data transfer rate of 400 Mbps

FireWire is suitable for applications where delayed or out-of-order data frames are unacceptable, such as digital video editing.

## Supports up to 63 devices

FireWire devices can be linked in a daisy-chain configuration. With the use of FireWire hubs, up to 63 devices can be linked on a single FireWire bus.

## Peer-to-peer architecture

FireWire devices are intelligent. Data transmission can take place without the need for input from the computer.

## Cable length up to 14ft

## On-bus power up to 45 W

FireWire can power larger, higher power consumption devices than USB 2.0.

## Plug & Play

You do not need to install drivers, assign unique ID numbers, or connect terminators.

## Hot-swappable

Devices can be added and removed while the computer is running. Also, you can turn off the device when not needed, in order to conserve electricity.



## Data transfer rates up to 480 Mbps

With USB, data transfer rates can vary depending on a number of factors, including available CPU resources.

## Supports up to 127 devices

Connecting more than one or two USB devices to a computer typically requires the use of one or more hubs: each hub can accommodate several USB devices.

## Master-slave architecture

The computer dictates data flow to, from, and between attached devices.

## Cable length up to 16.5ft

## On-bus power up to 2.5 W

Suitable for low-power-consumption devices such as flash card readers.

## Plug & Play

You do not need to assign unique ID numbers, or connect terminators. On most operating system you do not need to install drivers.

## Hot-swappable

Devices can be added and removed while the computer is running. Also, you can turn off the device when not needed, in order to conserve electricity.

**Q: I have a FAT32 disk, and when I try to copy a large file I get an error saying there is not enough room on the drive - I have lots of free space!**

A: FAT32 only allows files up to 4GB in size. To copy larger files, please reformat the volume using MacOS Extended Format.

## FAQs for PC Users:

**Q: My computer does not recognize the Drive.**

A: Make sure all of your connections are secure. If you have an add-on card, make sure it is working properly and/or update the driver. Also, make sure you have all the latest updates for your Windows operating system.

**Q: Can you make the External Hard Drive bootable?**

A: This depends on your computer's BIOS (Basic Input/Output System). The BIOS contains code required to control a number of miscellaneous functions. Please check with your computer manufacturer for BIOS updates to determine if your computer's BIOS supports this feature.

**Q: Does the Drive work with Norton Ghost?**

A: Yes. Norton Ghost 2003 or newer support USB drives. Fantom Drives does not provide any additional drivers.

**Q: Where are the drivers for 2000/XP?**

A: Windows 2000 and XP already include all the necessary drivers! No additional drivers are necessary.

**Q: Do you have "DOS Driver" for the Drive?**

A: No.

**Q: When I leave my computer idle for a while, my Drive won't work properly.**

A: The most likely cause is that your computer is going into sleep mode. The immediate solution is to shut down your computer and turn off the Drive, and then restart your computer. Once your computer is completely booted up, turn on the Drive. You should see the drive in the Windows Explorer. To prevent this problem from recurring, open the "Power Settings/Energy Saver" and set it to never go into sleep mode.

## Troubleshooting/ Frequently Asked Questions (FAQs)

### FAQs for Mac Users:

**Q: Why is my Drive asking me to format it? It was already formatted and it contains data.**

A1: Run a disk repair utility on the drive.

A2: Perform permission repair on your system drive. Open the disk utility (located in /Applications/Utilities/Disk Utility. app.) Select your system drive (usually the first disk listed) and click "Repair Disk Permissions" in the "First Aid" Tab.

A3: Restart your computer. As soon as the bootup chime sounds, press and hold down the option-command-p-r key combination to reset the PRAM. Release the keys when the chime sounds a second time.

Please refer to your Mac manual for more information on these procedures

**Q: My computer does not recognize the Drive.**

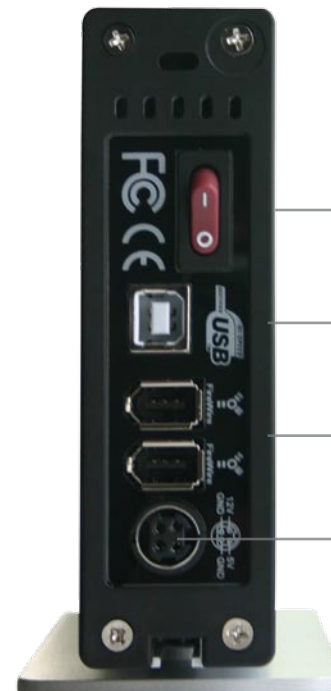
A: First, check to make sure that all of your connections are secure, and that the power switch is in the "ON" position. Then check if your External Hard Drive is listed in the Apple System Profiler. If the problem persists, verify that the USB port used is functioning.

**Q: I'm trying to copy files to/from FAT32 volumes or network shares, and it keeps failing.**

A: FAT32, HFS+, and other file system formats allow different standards of filename length or use of special characters. Rename the offending file(s) and try the operation again.

## Fantom Drives Titanium Hard Disk at a Glance

Power (Red)/  
Activity (Blue)  
Indicator Light



Power Switch

USB 2.0 port

FireWire ports  
(Combo models)

AC adapter port



# Precautions

Failure to follow the precautions described below may cause damage to your Fantom Drives External Hard Drive and void the warranty.

- DO NOT open the case. Doing so will void the warranty.
- DO NOT use a third-party AC adapter or power cord. Doing so may damage the Drive and void the warranty.
- DO NOT bump, jar or drop the Drive as this may damage it or result in loss of data.
- DO NOT disconnect any cables while the Drive is powered on without first properly dismounting the device via your operating system; doing so can result in data loss and possible damage.
- DO NOT set any liquids or beverages on the Drive as they may damage the internal electronics.
- Fantom Drives highly recommends that you regularly back-up the files stored on your Fantom Drives External Hard Drive. Fantom Drives is not responsible for any data loss, nor will Fantom Drives perform any recovery on lost data or files.

# Performing Basic Tasks

## How to open files and folders stored on the External Hard Drive

### PC and Mac Users

1. Double-click on the Drive icon. A window showing the files and folders stored on the Drive will appear.
2. Double-click on the file or folder that you want to open.

## How to copy files and folders to your External Hard Drive

### Mac Users

1. Highlight the file or folder that you want to copy by clicking on it, but do not release the mouse button.
2. While keeping the mouse button pressed down, drag the highlighted file or folder to the Drive icon or to a specific folder on the Drive.
3. Release the mouse button. The file or folder will copy over.

### PC Users

1. Single-click the file or folder that you want to copy in order to highlight it.
2. Go to "Edit -> Copy".
3. Double-click the Drive icon to open it.
4. If you want to copy the file or folder to a specific folder on the Drive, double-click that folder to open it.
5. Go to "Edit -> Paste". The file or folder will copy over.



## How to safely dismount and turn off the Drive with the computer running

### Mac Users

Drag the icon for the External Hard Drive to the Trash. The Drive will dismount and you can then safely turn it off. You may then unplug the power cord and data cable if you want to disconnect the drive.

### PC Users

1. Locate the System Tray. The System Tray includes the time display in the bottom right, and icons to the left of the time. One of the icons will be an icon with a green, diagonal arrow on it.

2. Left-click on this icon. You will receive the alert message "Safely Remove..." or "Stop..." followed by the drive letter for the device.

3. Left-click on the appropriate device (with the drive letter matching the one used by the External Hard Drive). After a few seconds, Windows will give you a message that it is safe to remove the device.

4. Click OK. The Drive will dismount and you can then safely turn it off. You may then unplug the power cord and data cable if you want to disconnect the drive.

## How to turn off and disconnect the Drive with the computer turned off (PC and Mac)

When you shut down your computer the Drive dismounts automatically. With the computer turned off, simply turn off the Drive. You may then unplug the power cord and data cable if you want to disconnect the drive.

## Connecting the Drive to Your Computer

1. Plug the AC adapter cord into the power port on the back of the Drive. The plug should not require much effort to insert. If the plug will not go in, do not force it; the plug is probably upside down. Rotate the plug and try again. Incorrectly inserting the plug could damage the Drive and void the warranty.

2. Plug the power cord into the cord socket in the AC adapter. Plug the other end into a three-prong outlet.

3. Plug in the FireWire or the USB 2.0 data cables.

**Connect the USB 2.0 connector of the included USB cable to a free USB 2.0 port on your computer.**

**FireWire plugs are shaped so they can only be properly inserted one way. Be sure to insert the plugs properly or you may damage the Drive and void the warranty.**

**The Fantom Drives Titanium Combo Hard Disk has two FireWire ports for connecting additional FireWire device in a daisy chain. You can use any port to connect the Drive to your computer..**

4. Press the power switch located on the back of the Fantom Drives Titanium Hard Disk. Once the Drive is powered up, your computer should recognize it and the Drive will be ready to use.



# Formatting your Fantom Drives Titanium Hard Disk

The Fantom Drives external hard disks are preformatted at the factory with the FAT32 file system, which will mount on most modern operating systems. FAT32 has some limitations, and we recommend you reformat the volume to a file system format more compatible with your particular computer and operating system environment.



***Formatting a hard drive erases all data contained on the drive. If you wish to reformat your Fantom Drives External Hard Drive, be sure to create a copy of the files you wish to keep before reformatting.***

## Formatting the Drive in Mac OS X

1. Launch the Disk Utility application (Disk Utility is located in the Utilities folder; inside the Applications folder). The Disk Utility window will open with a small sub-window at left and a larger sub-window with a series of tabs at the top.
2. You should see the Drive listed in the left sub-window. Click on the drive to highlight it. Information about the Drive will appear in the Information sub-window.
3. Click on the Erase tab. In the Erase sub-window you will see a Volume Format pop-up menu and a Name field.
4. In the Volume Format pop-up, select the format type (MacOS Extended is recommended.)



***Although it is possible to format a hard drive on Mac OS X using the DOS file system, we do not recommend this, as an artificial capacity limit may be imposed on the drive.***

5. Click Erase. You should see an alert pop up with the message: "Erasing a disk will destroy all information on all of the volumes of the disk..." Click Erase. Once initializing is complete, you should see the drive listed in the left sub-window of the Disk Utility screen. Quit Disk Utility. You should now see the Drive icon on the Desktop.

## Formatting the Drive in Windows 2000/XP/2003

1. Open the disk management console. A list of the attached drives and their respective volumes will appear. Select the Fantom Drives Fantom Drives Titanium Disk.

***The Disk Management Console can be found under \\Windows\\System32\\diskmgmt.msc on your system drive. For an illustrated guide, please see <http://www.fantomdrives.com/support/faqs>***

2. Right-click on the drive letter and select Format in the pop-up menu. The Format dialog box will appear.
3. Under Capacity, verify the Drive capacity. It should be close to the stated capacity of your Drive in gigabytes.
4. In the File System pop-up menu, select NTFS. The default formatting option is Full format. A Full format will take about 30-90 minutes. A Quick format will take just a few minutes, but will do less verifying of the Drive than a Full format. Click Start. Once the format process is complete, your External Hard Drive is ready to use.
5. In Windows XP, it is possible to optimize the drive for performance or quick removal. To select your desired mode, open the device manager (located in \\Windows\\System32\\devmgmt.msc on your system drive.) right-click the Fantom external disk in Disk Drives, and select properties. Select the Policies Tab near the top left of the window, and click your desired optimization level. press OK when finished, and you may close the disk management applet.