G|SAFE

Professional Hot-Swappable, RAID Protected Storage

G-Technology
by Hitachi

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Safety & General Use

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Safety Precautions

G-SAFE drive's warranty may be void as a result of the failure to respect the precautions listed here. If you detect a problem with your drive, please contact our Technical Support department.

If the product is returned with damage caused by improper handling, the warranty will be void and liability will rest with the user. Please read our Limited Warranty.

- **Servicing:** Your drive contains no user-serviceable parts. If it appears to be malfunctioning, have it inspected by a qualified Technical Support representative.
- **Moisture:** Place the device away from moisture or liquids. To reduce the risk of damage, do not expose this drive to rain or moisture. Do not use it in damp or wet conditions. Never place objects containing liquids on the drive as they may spill into its openings.
- **Ventilation:** Place the device in a vented area. The drive should never be placed near or over a radiator or heat source.
- **Temperature:** Do not expose this drive to temperatures outside the range of 5°C to 35°C (41°F to 95°F); or to operational humidity beyond 5-80%, non-condensing, or non-operating humidity beyond 10-90%, non-condensing. Avoid placing your drive near a source of heat, or exposing it to sunlight (even through a window), or in an environment that is too cold or humid.
- **Physical Damage:** Do not place heavy objects on the drive. Never use excessive force on your drive.

Backup Your Data

The disk drive contained in your G-SAFE device is a delicate electronic instrument and is susceptible to damage due to excessive physical shock. Under no circumstances will G-Tech be held liable for the recovery or restoration of lost data. Any loss, corruption or destruction of data while using a G-Tech drive is the sole responsibility of the user.

Make Two Backups

To help prevent the loss of your data, we highly recommend that you keep TWO copies of your critical data in separate storage locations. G-SAFE creates a mirrored copy of all data on two separate hard drives. However, if any file system corruption occurs, both hard drives will be affected.

For critical data, it is recommended to keep one copy on your G-SAFE and keep a second copy on your internal hard drive, another G-Tech drive, or a form of removable storage media.

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About Your G-SAFE

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Introduction

Thank you for purchasing the G-SAFE™ from G-Tech. G-SAFE hard drives are the ideal storage solutions for content creation professionals. G-SAFE is a high-speed, low cost storage solution that was designed to safeguard digital photos, audio and video libraries and documents.

With its uniquely designed all-aluminum enclosure, G-SAFE offers the ultimate in peace of mind by simultaneously writing to two independent hard drives. This provides an instant backup of files as you save them so your files are always safely backed up. Unlike single drive systems, if a failure occurs your data is still safe and accessible.

G-SAFE is also fast enough for HDTV video production with formats such as HDV, XD-CAM, DVCPRO™HD and ProRes. The drive works perfectly with demanding content creation applications, such as those found in Apple Final Cut Studio.

What's in the Box

The following items are included in the box:

- G-SAFE drive (eSATA, FW800, USB 2.0)
- eSATA cable
- FireWire 800 cable (9 Pin to 9 Pin)
- USB 2.0 cable

If any items are missing, please contact G-Tech at support@g-technology.com or call (888) 426-5214.

System Requirements

G-SAFE supports the folllowing Operating Systems. The drive is set up at the factory for use with Mac OS X systems, and formatted as 'HFS+ with Journaling'.

- Mac OS 10.5 or higher
- Windows XP, Vista or Windows 7

NOTE: G-SAFE models larger than 2TB are not supported by Windows XP and older 32-bit operating systems. These OS's are limited to a maximum volume size of 2.2TB.

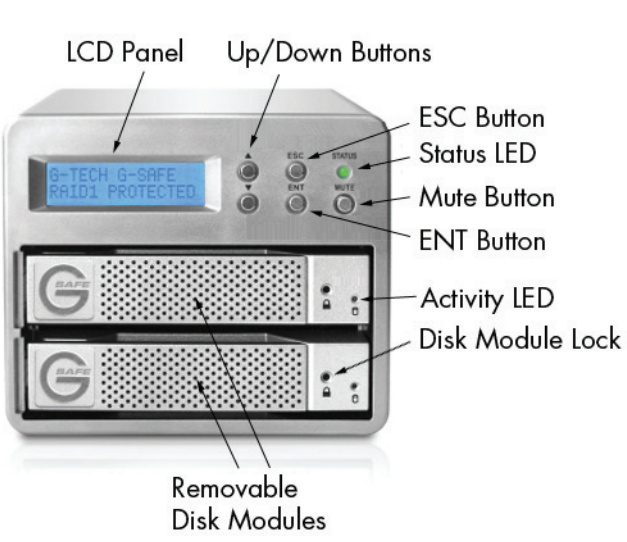
Overview of the Drive

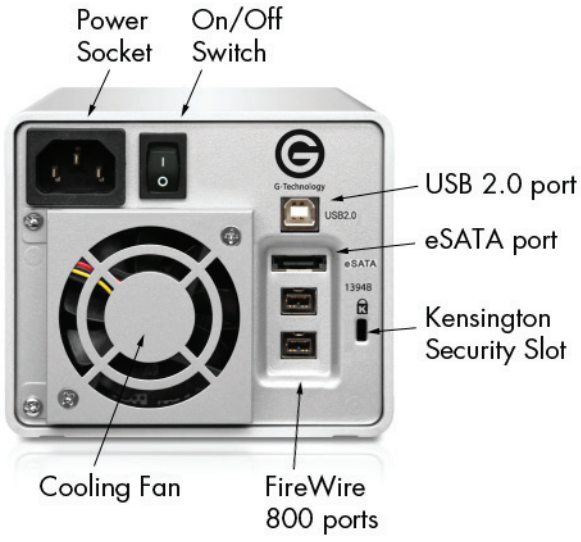
This diagram shows the helpful features of your G-SAFE.

G-SAFE features two hot-swappable drive modules coupled with a hardware RAID 1 (mirroring) engine that was engineered to ensure 24x7 data protection.

On the front panel is a LCD panel used to configure and monitor the health of the system. Inside is a heavy duty power supply and a quiet cooling fan to ensure long life and reliable operation.

On the rear of the drive is a high-speed interface with a USB 2.0 port, a 3Gbit eSATA port and two FireWire 800 ports. This allows for universal connectivity and industry leading performance. All cables are included.





G|SAFE

Using Your Drive on Mac

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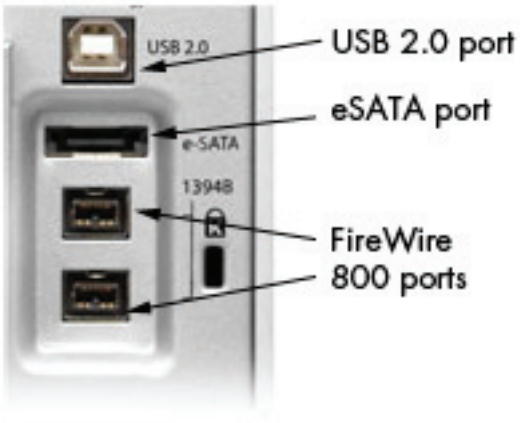
Easy Installation for Mac

G-SAFE attaches to your computer via a USB 2.0, high speed eSATA, or one of two FireWire 800 ports. Choose the connection appropriate for your system and connect G-SAFE with the matching supplied cable.



FireWire 400 connectivity is handled by a 4 Pin to 9 Pin cable or a 9 Pin to 6 Pin cable. You can purchase these cables online at www.g-technology.com/accessories.

Connect the power cord to the unit and plug the other end into a surge protector or wall outlet. Turn on the power switch. The drive will automatically mount on the desktop if you are running Mac OS X.

Optimize Performance

G-SAFE can be connected to any Mac or Windows machine equipped with an eSATA, FireWire 400, FireWire 800 or USB 2.0 port. For maximum performance, G-SAFE should be connected via eSATA or FireWire 800.

Disconnect the Drive

A great feature of G-SAFE is its ability to connect and disconnect while your computer is running. To prevent failures and/or data loss, it is important to follow the steps below when disconnecting or 'unmounting' the drive from your computer.

1. Before powering down and disconnecting the drive, unmount the system by simply dragging the G-SAFE icon to the trash located in the dock.
   Keyboard shortcut: Select the drive icon and hit Command + E.

2. It is safe to remove the drive from your system when the drive icon is no longer present on your desktop.

Helpful links

- To use G-SAFE on Windows, go to Windows Use.
- To use G-SAFE on Mac and Windows together, go to Cross Platform Use.

Powering On

Connect the G-SAFE to your system and then power on the drive. The power On/Off switch is located on the back panel of the G-SAFE enclosure.

The LCD panel on G-SAFE will indicate that Drive 1 and Drive 2 are 'OK' as shown below and the system will automatically mount on the desktop (Mac OS X).

All data saved to G-SAFE is simultaneously written (mirrored) to the system's two removable disk drive modules providing an instant back up of your data. If one of the disk drive modules in G-SAFE should fail, your data is safe and accessible.

WARNING: Never remove a disk drive module while the unit is powered on unless a drive failure has occurred. Data loss may occur.

Activity & Failure LEDs

G-SAFE contains LEDs for disk access and system status. The Activity LED will glow when data is being written or Read from the hard disks. It is normal for data to be written to both drives (RAID 1 mirroring) but only be read from one drive.

In the event of a disk drive or fan failure, the Status LED will change to yellow and the alarm will sound. The alarm can be muted by pressing the Mute button located on the front panel of G-SAFE.

LCD Panel & Audible Alarms

G-SAFE incorporates an LCD panel that displays the status of the system. If any of the error messages appear, contact G-Tech Technical Support. It is critical that action is taken to ensure reliable operation and data integrity.

Normal: During normal operation, the LCD panel will display an OK message.

Drive Missing: If one the disk drive modules is removed or the system does not recognize a drive module on power up, the following message will appear on the LCD. Power off G- SAFE and ensure that the drive modules are completely inserted in to the G-SAFE enclosure.

Drive Failure: If a drive failure occurs, the LCD will indicate which disk must be replaced. See Replacing a Disk Drive Module for how to do this.

Fan RPM: Pressing the Up arrow will display the RPM of G-SAFE's fan.

Fan Malfunction: If the fan malfunctions, the audible alarm will sound and the LCD will display the message below. Stop using G-SAFE until the fan module is replaced.

Overheating: If the system is overheating, the audible alarm will sound and the LCD will display the message below. Stop using G-SAFE and move the unit to a cooler environment.

Temperature: Pressing the ENT button on the front panel will show the current internal temperature of G-SAFE.

G|SAFE

Using for Offsite Backup

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Create an Offsite Data Backup

With the addition of a third drive module it is possible to add a greater level of protection by storing a copy of your data offsite. By rotating drive modules offsite at regular intervals you can always have a copy of your data safe and secure.

The process is simple, but to avoid data loss, follow these instructions carefully.

1. Turn off G-SAFE and remove the drive module you will take offsite using the provided key. You can remove either drive.

2. Turn on G-SAFE. The alarm will sound and the display will indicate a MISSING drive. Mute the alarm by pressing the Mute button on the front panel.

3. Insert the target drive module while the unit is on. This could be, for instance, the drive module you had stored offsite.

   WARNING: The target drive you are inserting will be overwritten with data from the source drive. Be sure you are inserting the correct drive.

4. G-SAFE will ask if you would like to rebuild the array. In our example, G-SAFE will rebuild from Drive 1 (top drive) to Drive 2 (bottom drive).

5. Push the ENT button to begin the process or ESC button to cancel. Alternately, the process will automatically cancel in 10 seconds.

6. G-SAFE will now rebuild the data to the target drive. Note: The rebuild process takes approximately one minute for each 5 GB of storage capacity. For instance, the rebuild time for a 500 GB drive is approximately 100 minutes.

7. Reset the Mute button to re-enable the audible alarm.

8. Once the rebuild is complete, the LCD panel will display an OK message. G-SAFE is now back to protecting your valuable data.

Recover with Offsite Backup

If the data on your G-SAFE somehow becomes compromised, follow the directions below to restore from your offsite backup drive.

1. Turn off G-SAFE. Remove both drive modules.

2. Insert the offsite backup drive module in either bay.

3. Turn on G-SAFE. The alarm will sound and the display will indicate a MISSING drive. Mount the drive on your system and verify the contents of the drive.

4. Insert one of the original (compromised) drive modules in the open bay. WARNING: The target drive you are inserting will be overwritten with data from the source drive. Be sure you are inserting the correct drive.

5. G-SAFE will ask if you would like to rebuild the array. In our example, G-SAFE will rebuild from Drive 1 (top drive) to Drive 2 (bottom drive).

6. Push the ENT button to begin the process or ESC button to cancel. Alternately, the process will automatically cancel in 10 seconds.

7. G-SAFE will now rebuild the data to the target drive. Note: The rebuild process takes approximately one minute for each 5 GB of storage capacity. For instance, the rebuild time for a 500 GB drive is approximately 100 minutes.

8. Reset the Mute button to re-enable the audible alarm.

9. Once the rebuild is complete, the LCD panel will display an OK message. G-SAFE is now back to protecting your valuable data.

NOTE: To create a copy of your data for offsite backup, turn off G-SAFE and repeat steps 6 through 9 using the second (compromised) drive module. Now all your drive modules have the most recent data and one drive can be taken offsite for safe keeping.

G|SAFE

Maintenance for your Drive

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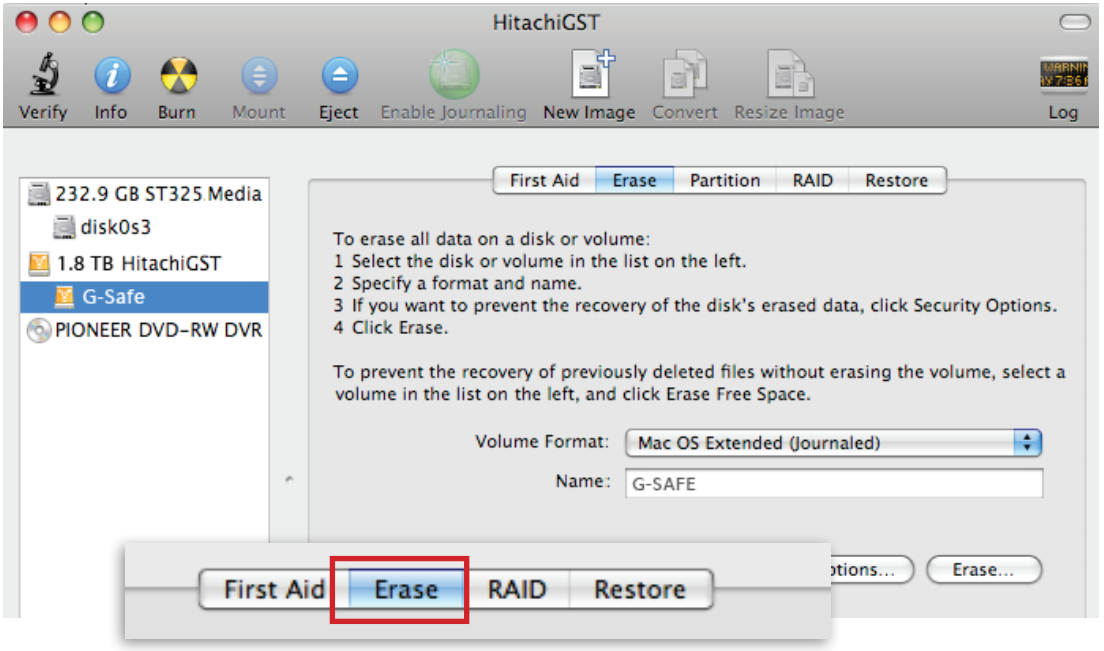
Initialize Drive for Mac

G-SAFE was factory-formatted for use or 'initialized' for Mac OS X. You can reinitialize if you would like to quickly erase the contents of the drive. Here are the steps.

1. First, open the Disk Utility program. This application is located on your hard drive under Applications/Utilities/Disk Utility. The window below will appear. Your G-SAFE will be displayed in the left-hand column.

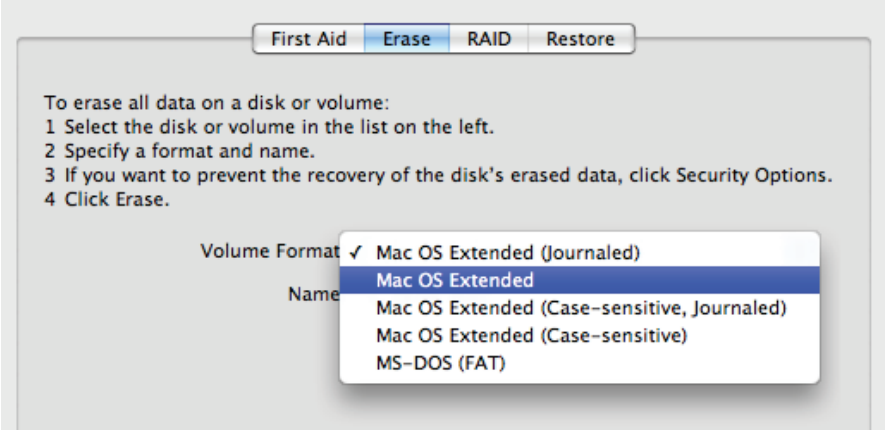
2. Select the G-SAFE by clicking its drive icon in the left-side column. Information about the drive willl be displayed at the bottom of the window.

3. Select the Erase tab to view the formatting options. By default, the Format pop-up menu is set to the Mac OS Extended (Journaled) option.

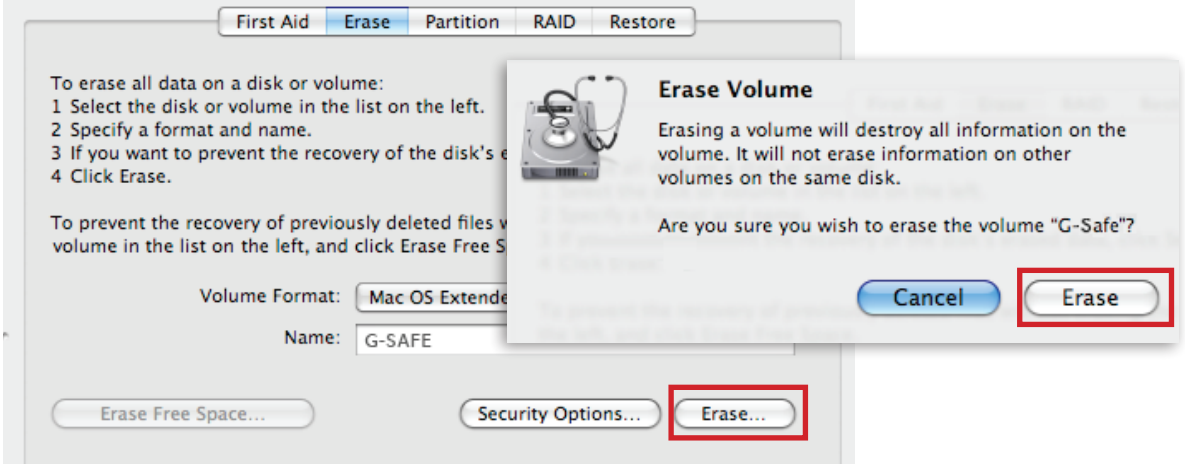


4. Choose the Format option that you prefer.

   - Mac OS Extended (Journaled): Use this format if you intend to use the drive for Time Machine or to create a separate bootable installation of OS X.
   - Mac OS Extended: Use this format for best performance and media storage. To select, click the Format pop-up and its option to Mac OS Extended.



5. Click the Erase button in the lower right corner of the window. A dialog box will appear asking if you want to erase the G-SAFE partition.

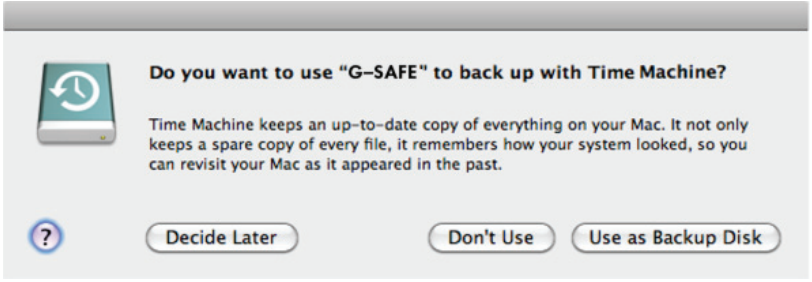


WARNING: THIS NEXT STEP WILL ERASE ALL DATA ON YOUR DRIVE.

6. Click on the Erase button to continue. A progress bar in the lower right corner of the window will show the progress of the disk's reformatting.

7. After the drive is reinitialized, you should automatically see the Time Machine dialog box.

   - Click the Use as Backup Disk button if you want to use the drive with Time Machine.
   - Click the Don't Use or Decide Later button if you do not want to use Time Machine at this point.



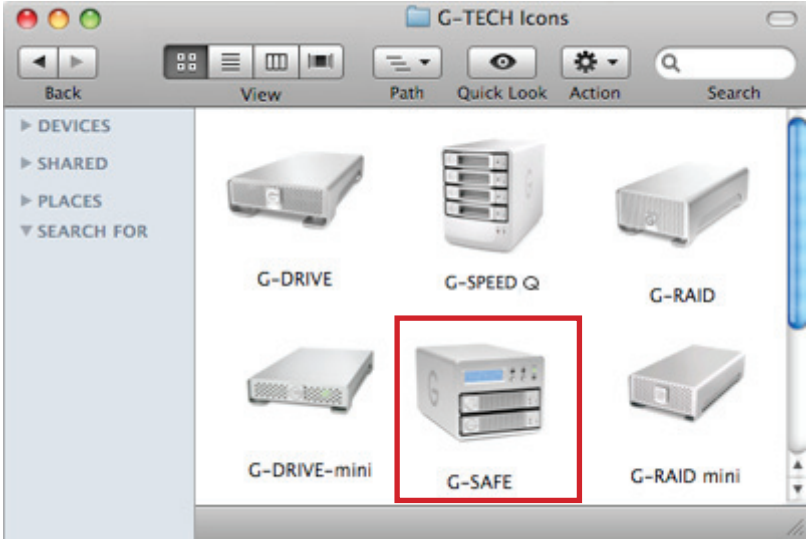
8. Quit the Disk Utility program. After reinitializing the drive, the custom icon for G-SAFE has been erased. You can optionally restore this icon with the steps on the next page.

Restore the Drive Icon

If the G-SAFE drive icon was erased during the reinitializing process (see previous section), you can restore the icon with the following easy steps.

NOTE: This process is not required for the operation of G-SAFE. However, it will make your drive's appearance on the computer desktop look nicer and more accurate.

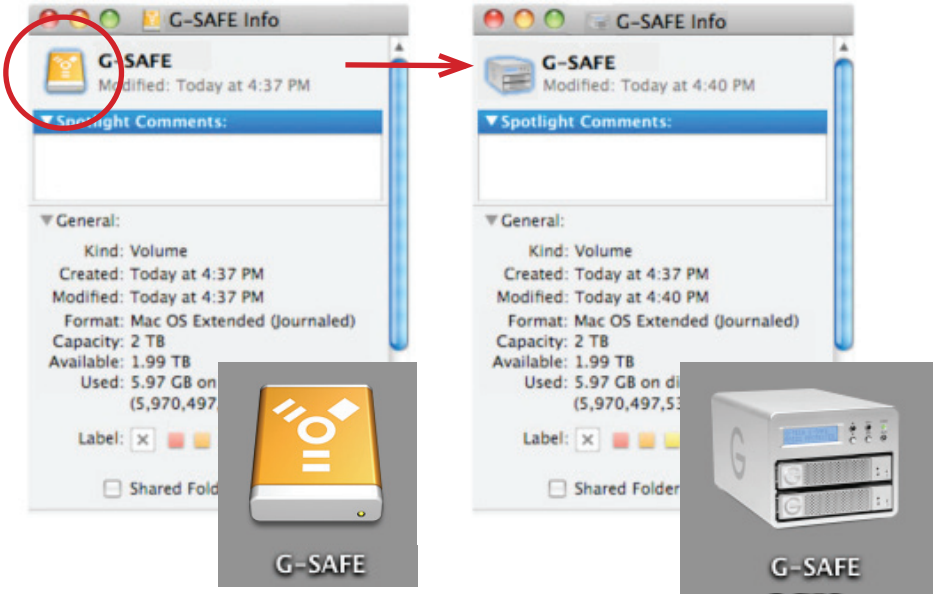
1. To get the G-Tech icon package, go to www.g-technology.com/support and navigate to your product. There will be a link to download the icons.
2. Once downloaded, it should automatically open the G-Tech Icons folder as shown below. If not, double-click the Zip file to open. Next, double-click the DMG file to open the G-Tech Icons package.
3. Click to select the drive icon for G-SAFE in the package window. Press Command+C to copy the icon. *(below)*



4. Select the G-SAFE icon on your desktop and press Command+I. This opens its Get Info window. *(below left)*

5. Select the default icon in the Get Info window. *(below left)*

6. Press Command+V to paste the custom G-SAFE icon into the Get Info window. *(below right)*



The icon for your G-SAFE has been restored and you can close the Get Info window. Your drive is now fully ready for use!

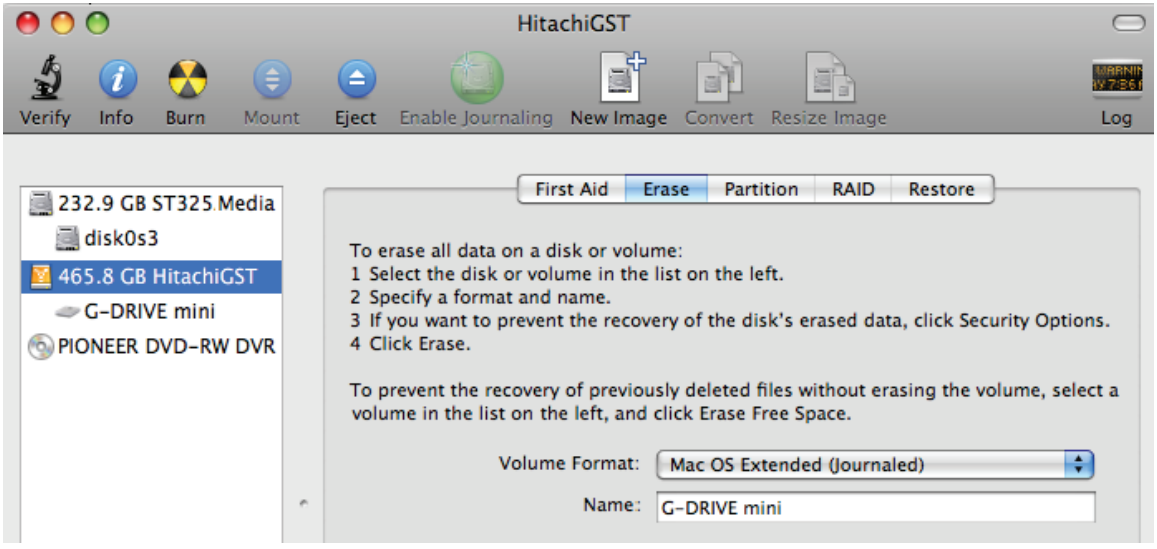
Reformat with Partitions

'Partitioning' a hard drive is the process of dividing a hard drive into separate, discrete sections called 'volumes'. Each volume works like a separate disk. You can create up to 16 different partitions on a hard drive in OS X and each partition can be a different size and format.

With hard drives getting bigger, it is useful to partition your hard drive so sections of its space can be used for different purposes. For instance, segment user data from backup data, set up a multi-boot environment with different Operating Systems or create a dedicated capture scratch disk for programs like Final Cut Pro.

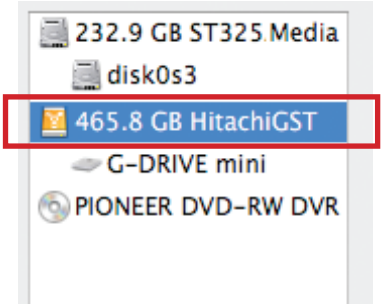
The following steps will guide you through this simple process of partitioning your drive. *In this example, we will partition a 500 GB G-DRIVE mini connected via FireWire. The steps will be identical for your drive, only the name may be different.*

1. First, open the Disk Utility program. This application is located on your hard drive under Applications/Utilities/Disk Utility. The window below will appear. Your G-Tech drive will be displayed in the left-hand column.

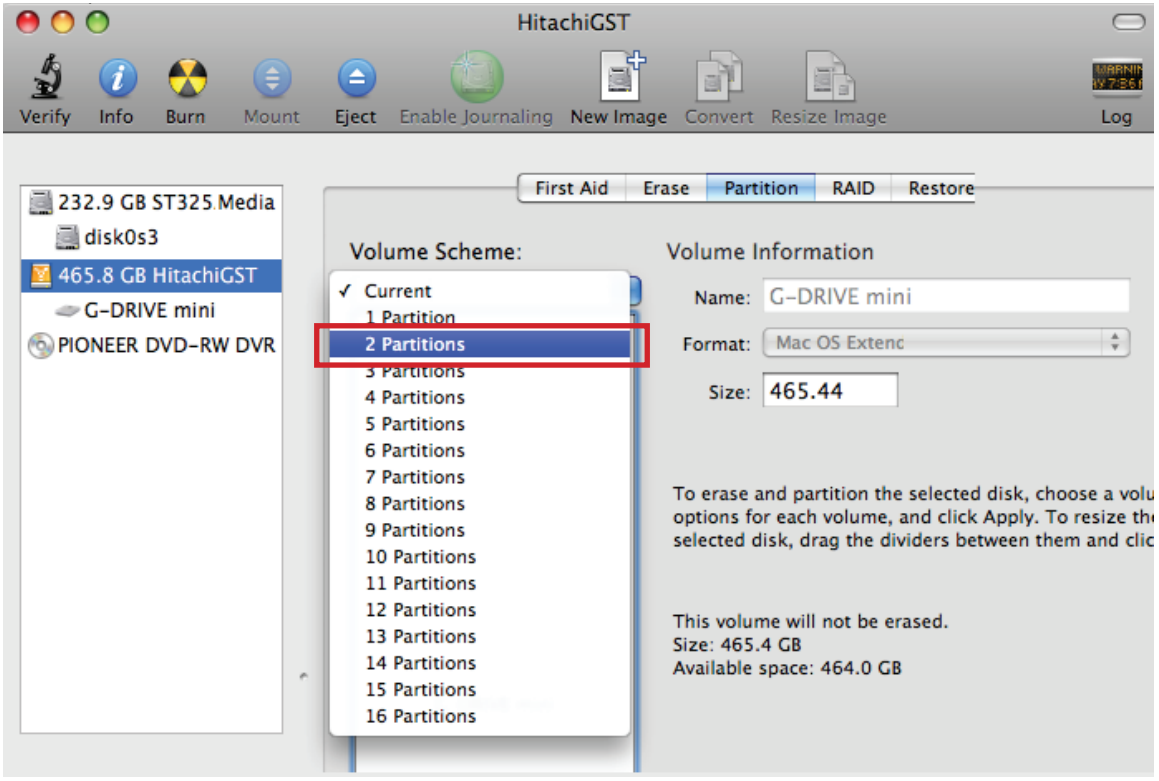


2. Select the FireWire or USB icon – not the G-Tech drive icon – by clicking it in the left-side column.

3. Click on the Partition button in the main window.

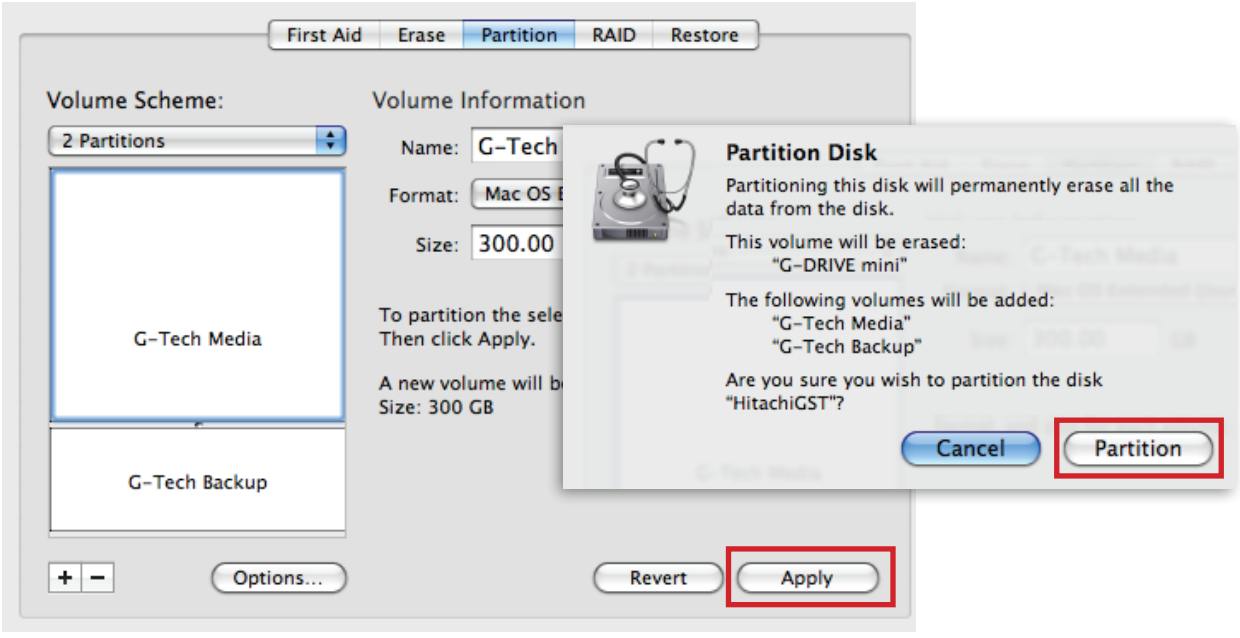


4. Select the number of partitions you would like from the Volume Scheme menu. Below, we have selected '2 Partitions' to create two partitions.

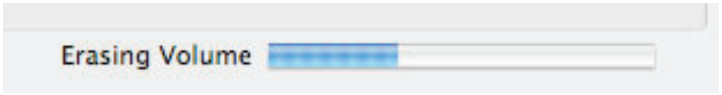


5. Click on the first partition in the Volume Scheme area. Your partition will be highlighted by a blue bounding box.
   - In the Name field, type a name for the partition.
   - From the Format menu, choose your desired disk format. If you will use your drive primarily on Mac OSX, it is recommended to use Mac OS Extended or Mac OS Extended (Journaled). For info about formats, go here.
   - In the Size field, type in a size for the partition. Alternately, you can drag the bar in between each partition to quickly change the size.
6. Repeat this process for each partition you have created.
7. Click the Apply button in the lower right corner of the window. A dialog box will appear asking if you want to erase the G-Tech drive partition.

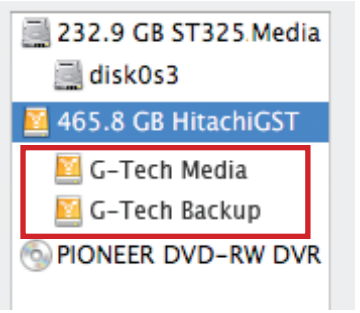
   WARNING: THIS NEXT STEP WILL ERASE ALL DATA ON YOUR DRIVE.



8. Click on the Partition button to continue. A progress bar in the lower right corner of the window will show you the progress of the disk's reformatting.



9. When partitioning is complete, the multiple partitions will be displayed in the left-hand panel of Disk Utility.



10. Quit the Disk Utility program. After reinitializing the drive, the custom icon for the G-Tech drive has been erased. You can optionally restore this icon to each partition with the steps on this page.

11. The multiple partitions of the G-Tech drive will be displayed on the desktop. Your drive is now setup with two or more partitions and ready for use.

Replace a Disk Drive Module

In the event of a disk drive failure, the G-SAFE alarm will sound and the LCD will display a message like that below. Mute the alarm by pressing the Mute button on the front panel. The blue LED on the failed disk drive module will also be illuminated.

Your data is still intact, but it is important that you replace the failed drive as soon as possible. Contact Technical Support to request a new disk drive module.

Follow the directions below to replace the failed disk drive module.

1. Power on G-SAFE. Note: It is not necessary to have your computer powered on during this process.

2. Identify the failed disk drive module indicated by the LCD panel and the blue LED on the disk module (in this example Drive 2) as shown below.

3. Remove the failed disk drive module by inserting the provided key in to the lock hole and gently pull out the module.

   WARNING: Be absolutely sure to remove the module indicated by the LCD. In our example, Drive 2 is the bottom drive. Removing the wrong disk drive module can result in data loss.

4. Carefully insert a new disk drive and secure the module by latching the handle. G-SAFE will ask if you would like to rebuild the array. In our example, G-SAFE will rebuild from Drive 1 (top) to Drive 2 (bottom).

5. Push the ENT button to begin the process or ESC button to cancel. Alternately, the process will automatically cancel in 10 seconds.

6. G-SAFE will now rebuild the data to the target drive. Note: The rebuild process takes approximately one minute for each 5 GB of storage capacity. For example, the rebuild time for a 500 GB drive is approximately 100 minutes. It is possible to access the G-SAFE during rebuild, however, your data access may be slower than usual.

7. Once the rebuild is complete, the LCD panel will display an OK message. G-SAFE is now back to protecting your valuable data.

G|SAFE

Using Your Drive on Windows

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by Hitachi

Windows Use

G-SAFE is set up at the factory for use with Mac OS X systems. A simple initialization will prepare your drive for use with Windows XP, Vista and Windows 7 systems.

For helpful information on configuring and using your drive with Windows, please visit www.g-technology.com/windows

NOTE: G-SAFE models greater than 2TB are not supported by Windows XP or older 32-bit operating systems. These OS's limit maximum volume size to 2.2TB.

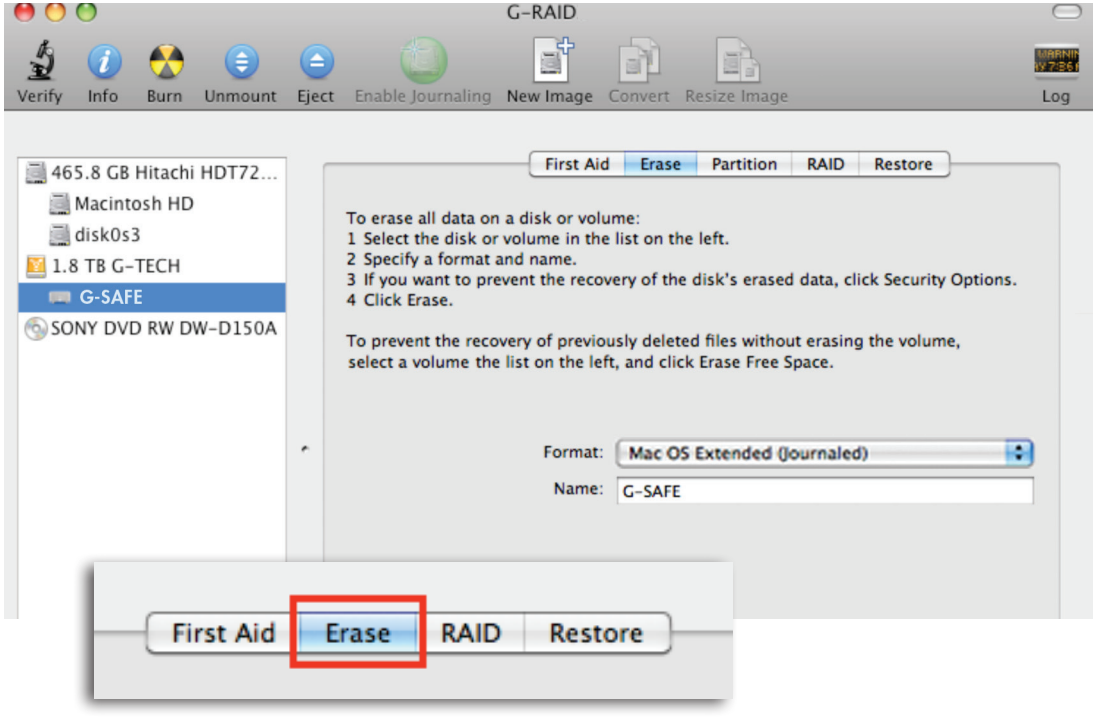
Cross Platform Use

You can set up G-SAFE for use on both Windows and Mac system by formatting the drive as 'FAT32'. To do this, use the Disk Utility application and format the drive to MS-DOS (FAT), also known as FAT32.

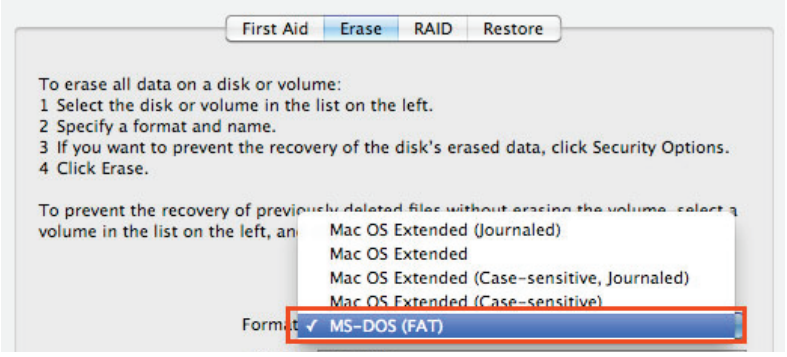
1. First, open the Disk Utility program. This application is located on your hard drive under Applications/Utilities/Disk Utility. The window below will appear. Your G-SAFE will be displayed in the left-hand column.

2. Select G-SAFE by clicking on its drive icon in the left-side column. Information about the drive will be displayed at the bottom of the window.

3. Select the Erase tab to view the formatting options. By default, the Format pop-up menu is set to the Mac OS Extended (Journaled) option.

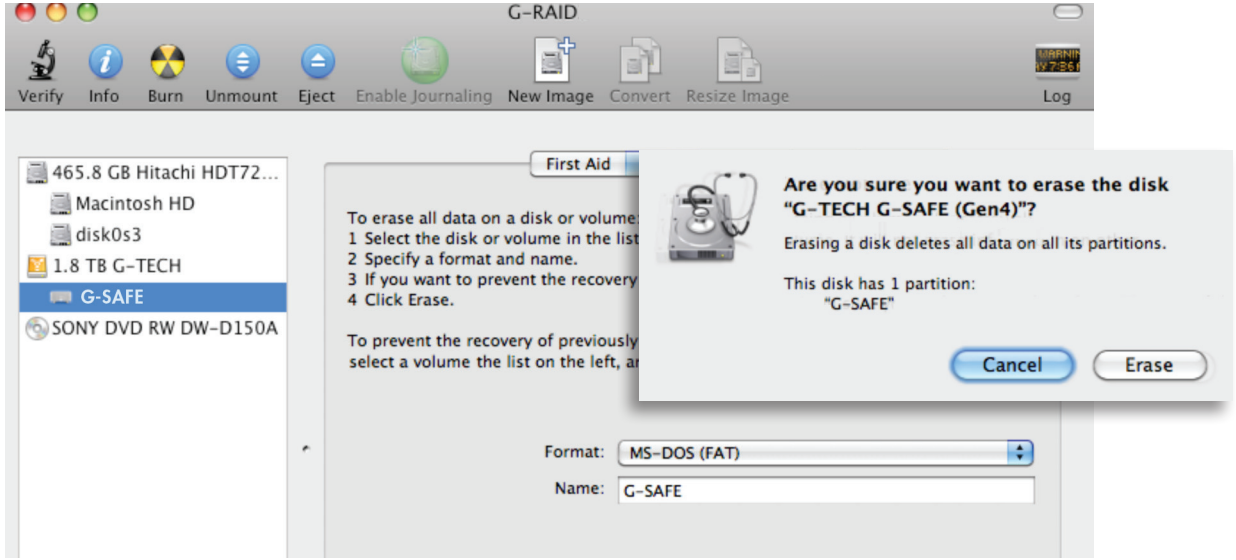


4. Select MS-DOS File System from the Format pop-up menu. This will format to FAT32. NOTE: You may need to rename the drive because FAT32 does not support more than 11 letters in the drive name.

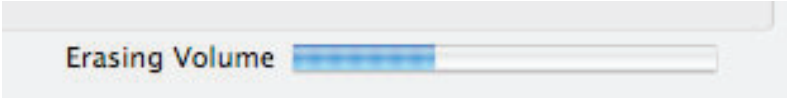


WARNING: THIS NEXT STEP WILL ERASE ALL DATA ON YOUR DRIVE.

5. Click the Erase button in the lower right corner of the window. A dialog box will appear asking if you want to erase the G-SAFE partition.



5. Click the Erase button. A progress bar in the lower right corner of the window will show the progress of the disk's reformatting. Your drive will be formatted to its full capacity as FAT32.



6. Quit the Disk Utility program. You are finished!

7. After reinitializing, the custom icon for G-SAFE will be erased. No icons are available for FAT32.

With this format, you will be able to read/write on Windows XP, Vista, and Windows 7 and on Mac OS X machines.

NOTE: G-SAFE models greater than 2TB are not supported by Windows XP or older 32-bit operating systems. These OS's limit maximum volume size to 2.2TB.

Limitations with FAT32

There are some limitations when using FAT32.

The 'MS-DOS File System' cannot write files over 4 GB. If you are working with files over 4 GB, you may want to choose a software option like MacDrive, www.macdrive.com. MacDrive is Windows software that enables you to mount Mac formatted drives on your Windows computer.

NOTE: You could format your drive on a Windows machine FAT32. However, Windows currently limits FAT32 partitions to only 32GB in size.

G|SAFE

Support & Warranty

G-Technology
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Technical Support

Thank you for purchasing G-SAFE. If you have any comments or questions about this manual or the product, please let us know!

G-Tech appreciates and values its customers, striving to give you the finest service and support. If you encounter any difficulties while installing or using G-SAFE, please contact G-Tech Technical Support via one of the following ways:

Telephone: (888) 426-5214
Fax: (408) 717-9007
E-mail: support@g-technology.com
Internet: www.g-technology.com/support

Helpful information for support

When contacting Technical Support, make sure to be in front of your computer and have the following information available:

- Your G-SAFE serial number (on bottom of unit)
- Operating System and version
- Computer brand and model
- List of other devices attached to your computer

Limited Warranty

Hitachi Global Storage Technologies ("Hitachi GST") including G-Technology by Hitachi Limited Warranty for External Hard Disk Drives

What does this limited warranty cover?

This Limited Warranty applies to new Hitachi GST external storage products purchased from an authorized Hitachi GST dealer by the original purchase for normal use and not for resale. Hitachi GST warrants that a covered product is free from defects in materials and workmanship, with the exceptions stated below.

How long does limited warranty coverage last?

This limited warranty lasts for 3 years or a fixed period from date of purchase, depending on when and where it was originally purchased. To determine the warranty specifically for your product, visit www.g-technology.com. A valid proof of purchase may be required to prove eligibility. If you do not have a valid proof of purchase, the limited warranty period will be measured from the date of sale from Hitachi GST to the authorized distributor.

What does this limited warranty not cover?

The limited warranty does not cover damage resulting from commercial use, misuse, accident, modification or alteration to hardware or software, tampering, unsuitable physical or operating environment beyond product specifications, improper maintenance, or failure caused by a product for which Hitachi GST is not responsible.

There is no warranty of uninterrupted or error-free operation. There is no warranty for loss of data—you must regularly back up the data stored on your product to a separate storage product. There is no warranty for product with removed or altered identification labels.

HITACHI GST DOES NOT PROVIDE ANY OTHER WARRANTIES OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SOME JURISDICTIONS DO NOT ALLOW THE LIMITATION OF IMPLIED WARRANTIES, SO THIS LIMITATION MAY NOT APPLY TO YOU. Hitachi GST is not responsible for returning to you product which is not covered by this limited warranty.

What must you do?

If you are having trouble with a product, before seeking limited warranty service, first follow the troubleshooting procedures that Hitachi GST or your reseller provides.

To obtain limited warranty service, you must first obtain a Return Materials Authorization (RMA) and ship-to address by contacting G-Technology by Hitachi at http://www.g-technology.com/support. Please follow the instructions found on the website. You must return the covered hard disk drive using approved packaging to our logistics center. You must pay any associated transportation charges, duties and insurance in shipping the drive to our logistics center. You should remove all personal information from the product prior to its return.

What will Hitachi GST do?

Hitachi GST will repair or replace covered defective product and ship you repaired or replaced product, transportation prepaid. You receive title to the repaired or replaced product at delivery to carrier at Hitachi GST shipping point. You are responsible for importation of the repaired or replaced product, if applicable. These limited warranty terms apply to the repaired or replaced product, except the limited warranty period is for the greater of the remainder of the original limited warranty period for the returned product or 90 days.

How is our liability limited?

HITACHI GST AND ITS AFFILIATES, SUPPLIERS, DISTRIBUTORS, AND RESELLERS ARE NOT LIABLE FOR ANY OF THE FOLLOWING: 1) THIRD-PARTY CLAIMS AGAINST YOU FOR DAMAGES (OTHER THAN BODILY INJURY INCLUDING DEATH AND TANGIBLE PERSONAL PROPERTY; 2) LOSS OF, OR DAMAGE TO, YOUR DATA; OR 3) SPECIAL, INCIDENTAL, OR INDIRECT DAMAGES OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS OR SAVINGS), EVEN IF INFORMED OF THE POSSIBILITY. SOME JURISDICTIONS DO NOT ALLOW LIMITATION OF LIABILITY, INCIDENTAL DAMAGES, OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

How do local laws apply?

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION.

G-Technology, a division of Hitachi Global Storage Technologies
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One gigabyte (GB) is equal to one billion bytes and one terabyte (TB) equals 1,000 GB (one trillion bytes). Accessible capacity will vary from the stated capacity due to formatting and partitioning of the hard drive, the computer's operating system, and other factors" For G-Technology by Hitachi products less than 1TB: "One gigabyte (GB) is equal to one billion bytes when referring to hard drive capacity. Accessible capacity will vary depending on the operating environment and formatting.