


2.5" COMBO ION™ Drive **Hi-Speed Portable External Hard Drive**

GHE125C User Manual





Thank you for purchasing IOGEAR's® ION™ Drive, one of the fastest and slimmest Hi-Speed portable external Hard Drives on the market. IOGEAR® only manufactures high quality storage devices so we are sure you will be satisfied with your purchase. IOGEAR® is dedicated to customer service and satisfaction, and wishes you the best with your new ION™ drive.

To better serve you, IOGEAR® offers an array of additional USB 2.0, USB, FireWire, KVM, and other peripheral products. For more information, or to purchase additional IOGEAR® products, visit us at www.IOGEAR.com.

We hope you enjoy using your ION™ Drive, yet another first-rate connectivity solution from IOGEAR®.

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Package Contents

This package contains:

- 1 2.5" ION™ Drive
- 1 Hi-Speed USB 2.0 (Type A to Mini-B) Cable
- 1 FireWire (6 pin - 4 pin) Cable
- 1 IOGEAR® Installation CD
- 1 Power Adapter
- 1 User Manual
- 1 Warranty / Registration Card

If any of the items are missing or damaged please contact your dealer immediately.

The ION™ Drive is yet another innovative FireWire/Hi-Speed USB 2.0 solution developed by IOGEAR®. The ION™ Drive offers a complete high speed storage solutions at the fraction of the cost of other external Hard Drives.

Setup is fast and easy. Simply plug in the drive and install the software and you're ready to go. The ION™ Drive offers a feature rich interface, complete with the latest in Hi-Speed technology.

IOGEAR® brings FireWire and the next generation of USB to your computer. You will enjoy the convenience and reliability that has made these two technologies an industry standard when it comes to connecting multiple high-tech peripheral devices. *FireWire®, also known as Sony's® iLink™ or IEEE 1394, developed by Apple Computer, Inc., is the latest connectivity standard for high speed digital devices like DV Camcorders. Firewire® has a data transfer rate up to 400Mbps (Megabits per second) and allows you to connect up to 63 separate devices simultaneously. USB 2.0 is the next generation of USB connectivity, providing additional bandwidth thus broadening the range of peripherals that may be attached to your computers. USB 2.0 allows you to move data at a blazing rate of 480 Mbps (Megabits per second). Hi-Speed USB 2.0 is fully backward compatible with the first generation of USB devices. With the increase in speed, USB 2.0 offers increased functionality, allowing more devices to share the increased bandwidth. The combination of FireWire and USB 2.0 is the right choice for your external storage environment.

Features

- Transfer pictures, music and more at speeds up to 480 Mbps. Transfer 1 GB in under 30 seconds
- Ideal for backup, storage expansion, file sharing, software installation and data management
- 3 connectivity solutions in one (FireWire, USB 1.1, & USB 2.0)
- Hot plug capable, hot swappable, Plug-N-Play
- Preformatted for your convenience, so you are up and running in no time (those with preinstalled drives)
- The FireWire interface supports data transfer rates of up to 400 Mbps
- USB 2.0 interface, supporting high speed data transfer rates of up to 480 Mbps
- Backward compatible with USB 1.1 specifications
- Compact size, perfect for the mobile professional
- Three year limited warranty

To access FireWire or USB 2.0 speeds, your computer system must be either FireWire or Hi-Speed USB 2.0 enabled. The COMBO ION™ drive will work at USB 1.1 speeds with USB 1.1 enabled computers.

For Mac Users

- Mac OS 8.6 to 9.x *
- Mac OS X **
- Available hi-speed USB 2.0 port or FireWire port
- CD-ROM drive

For PC Users

- PC Compatible, 200MHz or greater
- Windows® 98SE, 2000, ME, XP
- Minimum 64MB RAM
- Available Hi-Speed USB 2.0 port or FireWire port
- CD-ROM drive

* Will operate as a FireWire or USB 1.1 device.

** Mac OS X takes advantage all three connectivities; FireWire, USB 2.0, & USB 1.1.

Accessories / Additional Products

2-in-1 Hi-Speed USB 2.0 Memory Bank™ (GFR201)

6-in-1 Hi-Speed USB 2.0 Memory Bank™ (GFR206)

USB Flex™ Web Cam - USB Flexible Web Camera (GCA210U)

KVMP™ Switch – 2 and 4 port USB KVMP™ switch (GCS1712/14)

IOGEAR 4 pin to 4 pin FireWire cable (G2L13944-6)

Introduction

Introduction of the COMBO ION™ Drive's Underlying Technology

The combination of FireWire, USB 1.1, and Hi-Speed USB 2.0 is the backbone of our ION™ Drive. USB 2.0 is the next generation of USB connectivity, providing additional bandwidth thus broadening the range of peripherals that may be attached to your computers. USB 2.0 will move data at a blazing rate of 480 Mbps (Megabits per second), and is fully backward compatible with the first generation of USB 1.1 devices. With the increase in speed, USB 2.0 will offer increased functionality, allowing more devices to share the increased bandwidth.

With the increase in demand for FireWire and USB 2.0 products, IOGEAR® decided to provide our customers with a total solution. We have taken some of the top peripherals on the market and have upgraded them to the new FireWire and/or USB 2.0 standard.

Today's connectivity standards are faster and easier to use than it has ever been. Moving data at a blazing speed of 12Mbps, 400Mbps, and 480Mbps and now allows for high speed devices to take full advantage of the bandwidth and reliability offered by the new technologies.

This manual contains information on the installation and capabilities of your new COMBO ION™ Drive.

In sections of the manual where sequential steps are listed, each action is listed with no indentation. Additional text is included, but indented, to further explain each of these actions. A glossary has been added at the end of the manual so you may look up unfamiliar terms.

A few things should be mentioned before explaining the installation procedure:

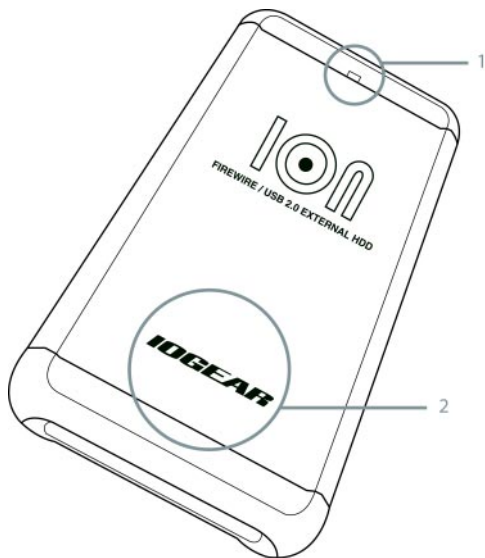
All IOGEAR® ION™ drives are tested before they are shipped.

The connectors on a FireWire and Hi-Speed USB 2.0 cable designed in such a way as to prevent plugging the cable in upside down, backwards, or into a different type of connector.

At time of print, most computers do not have Hi-Speed USB 2.0 capabilities. To ensure optimum compatibility, please make sure your computer is USB 2.0 compatible or has had a USB 2.0 upgrade card added to your computer system.

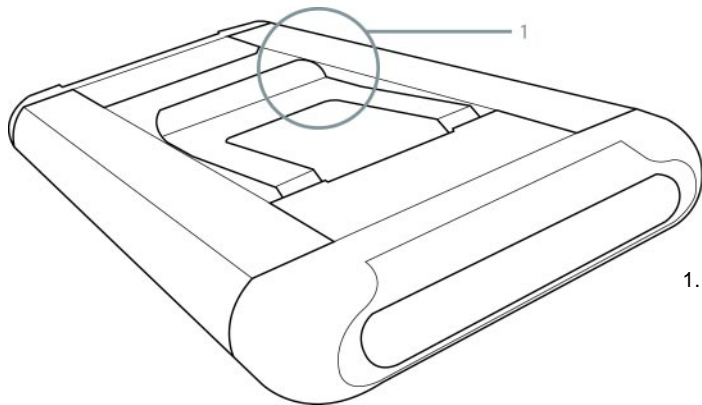
Pictorial Introduction

Top View



1. Activity Indicator Light
2. The IOGEAR Logo, a mark of quality

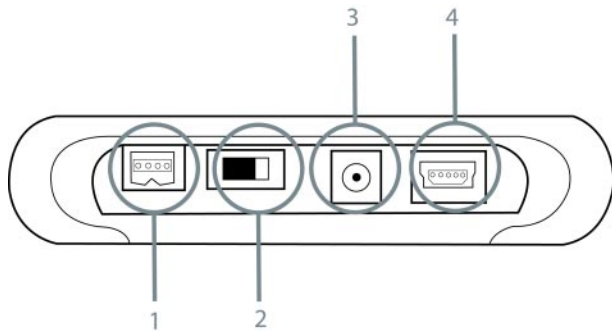
Bottom View



1. Pocket Clip

Pictorial Introduction

Side View



1. FireWire 4-pin Port (female)
2. Power Switch
3. Mini Power Port
4. Hi-Speed USB 2.0 Type mini B Port (female)

Installation of Hard Drive

If you purchased the enclosure model (GHE125C), please follow these instructions to install your 2.5" Hard Disk Drive. **OTHERWISE, PROCEED TO PAGE 17.**

WARNING: Opening ION Drive's with built in Hard Drives (GHD125C40, GHD125C60, etc...) **WILL VOID YOUR WARRANTY.** For assistance with your hard drive, please contact your IOGEAR service support representative.

Hardware Installation:

Attention! Please take all proper Electro Static Discharge (ESD) precautions during the installation of your new hardware. For further information on ESD please visit <http://www.esda.org>.

Step 1.

Before you begin, please have a Phillip's head screw driver available.

Step 2.

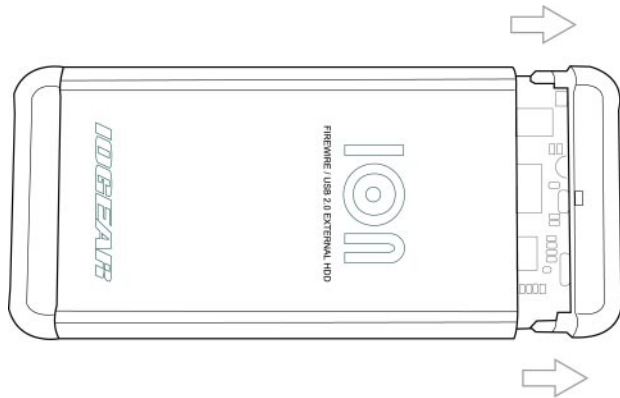
Unscrew the top two screws of the ION Drive.



Installation of Hard Drive

Step 3.

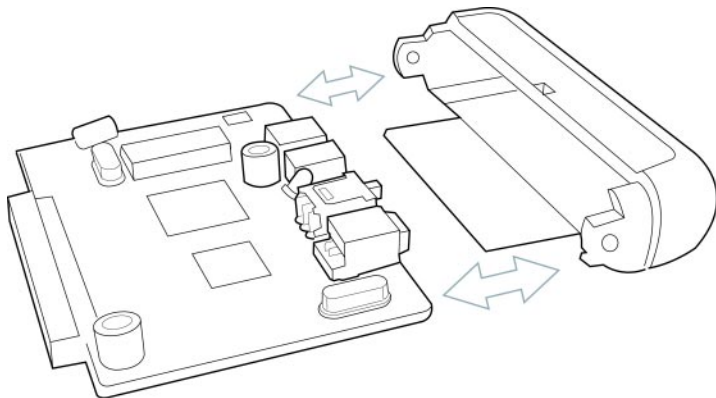
Gently pull the top end cap out of the main body of the ION Drive.



Installation of Hard Drive

Step 4.

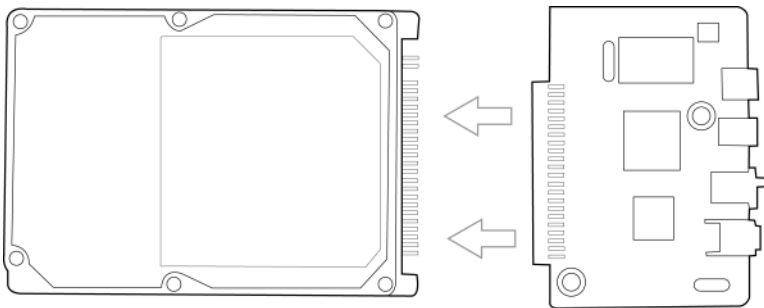
Remove the Bridge Board from the end cap.



Installation of Hard Drive

Step 5.

Attach the 2.5" Drive to the Bridge Board. Please take care to line up the drive pins to the bridge board so as to not bend them in any way.



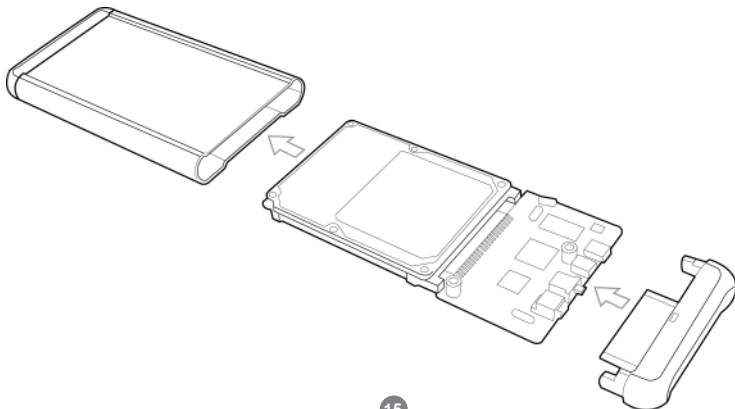
Installation of Hard Drive

Step 6.

Insert the Bridge Board with attached drive back into the end cap.

Step 7.

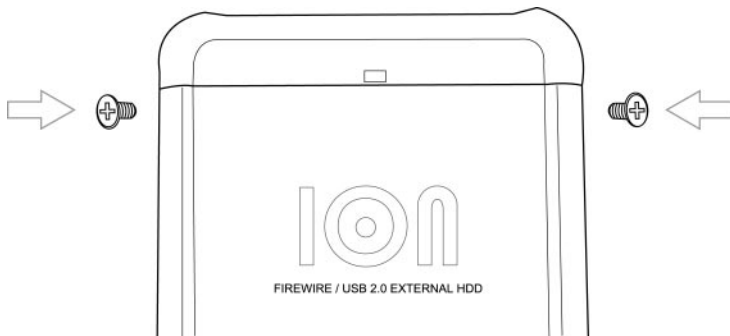
Gently insert the Bridge Board with attached drive and end cap back into the main body of the ION Drive enclosure. Be sure the Bridge Board slides into the channels on the inside of the main body of the ION Drive.



Installation of Hard Drive

Step 8.

To complete the installation simply replace the two top screws.

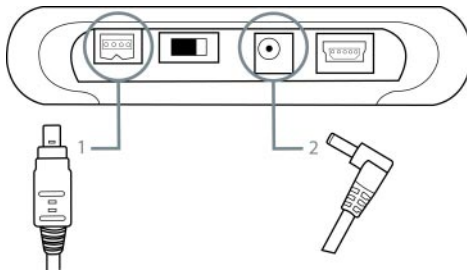


FireWire Installation



(It is not necessary to install a driver for FireWire under any OS, however please make sure your computer has all of the latest updates, critical updates, service packs, service releases, OS patches, security updates, and all other OS updates provided by the respective developers.)

Note: Before you begin, please make sure that the power to the device and your computer has been turned off.

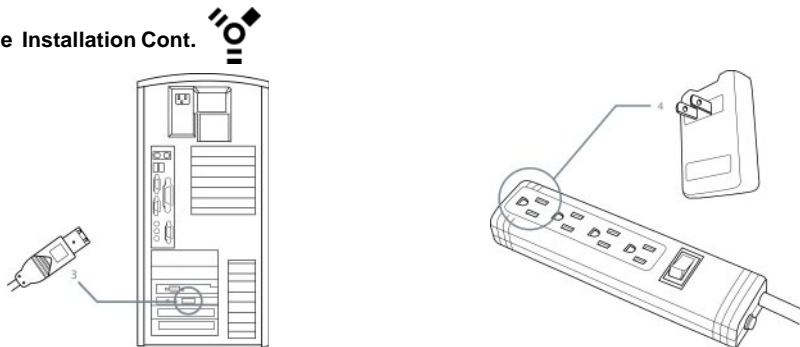


Step 1. Plug the FireWire 4 pin connector into the back of the ION™ Drive.

Step 2. Plug the Power Adapter into the back of the ION™ Drive. (You must connect the power adapter in order to utilize the drive)

ION™ Drive Setup

FireWire Installation Cont.



Step 3. Plug the FireWire 6 pin connector into your computer's FireWire Port.

(if your computer only has a 4 pin FireWire or iLink® connection please use a FireWire 4 pin(m) to 4 pin(m) cable. IOGEAR part # G2L13944-6 ; or you may pick one up at any local electronics store or catalog reseller.)

Step 4. Plug the power adapter into a surge protector.

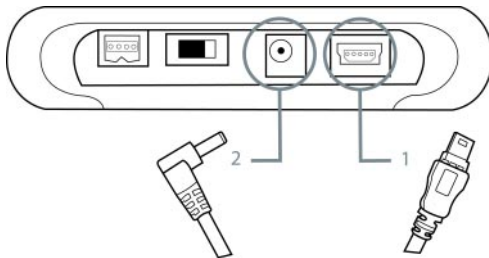
Step 5. Once complete, turn the ION™ Drive and your computer on. Your computer will automatically identify the ION™ Drive and load all necessary drivers.

Hi-Speed USB 2.0 Installation



Note: Before you begin, please make sure that the power to the device and your computer has been turned off.

For Windows® 98SE users, Insert the IOGEAR® Installation CD into your computer's CD-ROM tray before you begin. (It is not necessary to install a driver under Windows® 2000, ME, XP or under any Mac OS) Please refer to page 14 after completing the instructions on pages 12 and 13.

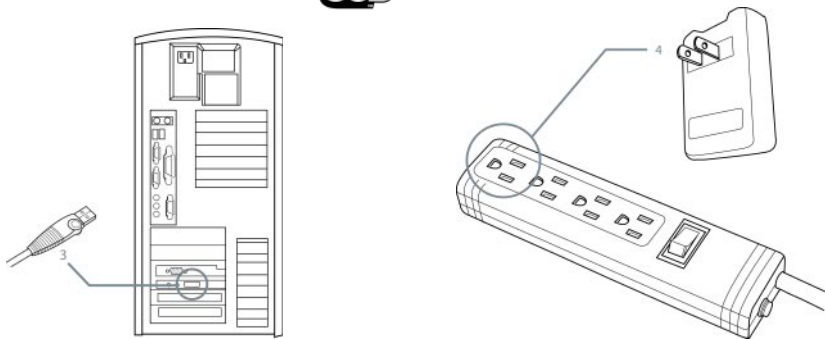


Step 1. Plug the USB Type mini-B connector into the back of the ION™ Drive.

Step 2. Plug the Power Adapter into the back of the ION™ Drive. (You must connect the power adapter in order to utilize the drive.)

ION™ Drive Setup

Hi-Speed USB 2.0 Installation Cont.



Step 3. Plug the USB Type A connector into your computer's USB 2.0 Port.

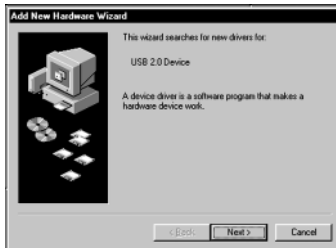
Step 4. Plug the power adapter into a surge protector.

Step 5. Once complete, turn the ION™ Drive and your computer on. Your computer will automatically identify the ION™ Drive and load all necessary drivers.

Installation of ION™ Drive Software (PC)

For Windows® 98SE Users Only

Step 1. Once the ION™ Drive has been plugged in, the following window should appear. (If the drive automatically loads you will not need to continue.) Click *next* to continue.



Step 2. In the next window please select “Search for the best driver for this device” and click *next* to continue.



Installation of ION™ Drive Software (PC)

Step 3. The next window will allow you to point the driver search to a specific folder. Please select the “Specify a location:” button and Click “Browse...”.



Installation of ION™ Drive Software (Mac)

For Mac OS X Users Only

- Open *Combo ION Drive* Folder
- Open Mac OS 10 folder that corresponds to your OSX installation. Either 10.1.X for 10.1.5 or before or choose 10.2.X for 10.2 or later.
- Double click on *GHE125C Installer.pkg*
- Enter Administrator Password and click *OK*.
- Click *Continue* when prompted
- Again, click *Continue* when prompted
- Select Destination. Make sure to choose the partition that has your OS X installation on it. Then click *OK*.
- Now click *Next* at the next screen.
- The computer will prompt you that the installation will require a reboot. Click *Continue Installation*.
- After installation completes click on *Restart* and computer reboots. When boot is complete the drive is ready to be attached and used.

Installation of ION™ Drive Software (Mac)

For Mac OS 9 Users Only

- Open Combo ION Drive Folder
- Open Mac OS 9.X folder
- Double Click on *Install Cypress MSC Driver*
- When complete click *OK*.



Device Removal (PC Users)

Step 1

Before you unplug the ION™ Drive, click on the green arrow on the lower right corner of the Window.



Step 2

A message of [Safely Remove...] will appear, click on this message to remove the device



Step 3

The system will tell you that you can safely unplug your ION™ Drive now



Driver Removal

Step. 1

Follow the path of “Start”>”Settings”>”Control Panel”.



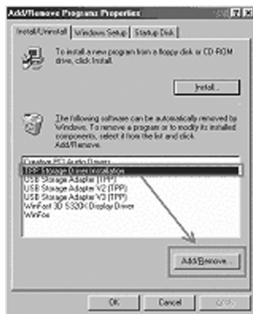
Step. 2

Click on “Add/Remove Programs”.



Step. 3

The “Add/Remove Programs Properties” will appear. Select [TPP Storage Driver...], then click “Add/Remove.”



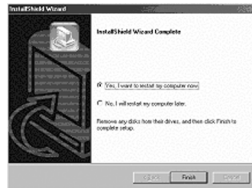
Step. 4

Click on “OK” when the system ask you if you want to remove driver.



Step. 5

After the removal of the driver, select Restart Computer and click on Finish.



Care & Handling

Your IOGEAR® storage device is a high performance FireWire/Hi-Speed USB 2.0 HardDrive (ION™ Drive). The head that reads the information on the disk is a fragile piece of technology. Therefore, care must be taken not to bump the ION™ Drive while it is operating. Please do not bump the ION™ Drive excessively when the drive is turned off.

To insure maximum reliability of the ION™ Drive, please follow the guidelines listed below:

- DO NOT block the air circulation around the vents of the drive.
- DO NOT move or bump the drive while it is operating.
- Keep all cables out of isles and off desktops where they can be hooked and pulled.
- Keep the drive firmly secured in the shipping container when shipping the drive.
- Keep the environment around the drive clean and free of excessive dust and chemicals.
- Use a damp cloth to clean the drive. NEVER put cleansers directly on the drive case.
- Use surge protectors with the drive.
- DO NOT expose the ION™ Drive to extreme temperatures.
- DO NOT expose the ION™ Drive to direct sun light for extended periods of time.
- DO NOT get the ION™ Drive wet.
- DO NOT place the ION™ Drive in an area with an excessive amount of dirt.

Basic Trouble Shooting

ION™

- Make sure you have Critical Updates from the Microsoft® Website at <http://windowsupdate.microsoft.com>; then, click on “Product Updates,” select the latest Critical Update package for your Windows® OS, and then click “Download.”
- Make sure the drive is turned on before you start-up your computer.
- Make sure your new IOGEAR® ION™ Drive is the only device hooked into the USB 2.0 or FireWire port.
- Do not use a hub or repeater in connecting your drive to the computer.
- Use the cable that was shipped with your ION™ Drive.
- Check all cable connections.
- Use other IOGEAR® cables if you have any extra.

Other Issues

At the very least, make sure your computer has all available updates provided by the manufacture of both your hardware and software. Updates can be found at <http://www.versiontracker.com> or <http://www.download.com>. Upgrade your CPU firmware to the latest revision. Please read all text on the download pages to determine which firmware update is appropriate for your computer.

Trouble Shooting

Notes:

All URLs are subject to change. If the URLs listed in this manual are no longer valid, you can find the majority of necessary updates at <http://www.versiontracker.com> or <http://www.download.com>.

Seagate Trouble Shooting Tip

Set up the jumper on the Seagate drive to the SLAVE position.

Setting up your drive:

If for some reason you need to re-partition your ION™ drive, you will need to keep in mind that Windows limits the partition size that can be created, through the USB interface, to roughly 30GB when using the FAT32 file system. If you have Windows 2000 or XP you can format the drive with NTFS which has no limit on the partition size.

Compatibility Note:

FAT32 is compatible with Windows 98/98SE/ME/2000 & XP

NTFS is only compatible with Windows 2000 & XP

Contacting IOGEAR® Service Support

If you are still experiencing problems using your IOGEAR® ION™ Drive, please follow the directions on pg. 31 on how to contact IOGEAR's Service Support department for your technical support needs.

To help IOGEAR® customers obtain the highest level of performance from their ION™ Drive, IOGEAR® Service Support team is available to answer your technical questions. Do not hesitate to call if you are having trouble getting your drive to work correctly. Service Support can be reached at IOGEAR® from 8am to 5pm Pacific Standard Time, Monday through Friday or at the following address:

23 Hubble Drive
Irvine, CA 92618

You may also reach us online at www.iogear.com/support 24 hours a day. Please be ready to give a brief description of the problem, and what you were doing when the problem occurred, before calling Service Support. The Service Support representative will be able to serve you much quicker if you are prepared to answer the following questions listed below.

- 1) What version of OS are you using?
- 2) What type of computer are you using?
- 3) Can the problem be reproduced? If so, what are the steps necessary to reproduce the problem
- 4) When does the problem occur?
- 5) What have you already tried to get the problem resolved?
- 6) What is the purchase date and serial number of the drive?
- 7) Are you on a network? If so, what type of network is it?
- 8) Were any messages displayed on the screen when the error occurred? If so, what was the exact wording of the message?
- 9) What type of data are you trying to transfer to your ION™ Drive?

Appendix

Glossary

Desktop - The background area on the computers monitor screen. This area also includes the menu bar. Document windows are not part of the desktop; rather they sit on the desktop.

Icon - Symbols used to represent a particular object. For example a disk has an icon on the desktop which represents the disk. When you double click the disk icon it tells finder to display information related to that disk.

Mount - Makes the computer aware of a disk.

Power Adapter Port - The plug on the ION™ Drive into which the power-cord is plugged into.

Service Support - The team of IOGEAR employees dedicated to help you resolve your technical issues.

Spin down - The act of the disk inside the drive or cartridge ceasing its rotation.

Spin up - The act of the disk inside the drive getting up to the proper rotations per minute. The disk inside the drive must spin at the proper speed for the disk to work.

Product Specification (MODEL: GHE125C, GHD125C(XXX))

Function	Specification
Power Consumption	Power Adapter
Input Voltage	5.0V 2.1A
Connector Type	Firewire 4pin (f) / USB 2.0 Type mini-B (f)
Storage Temperature	32 ~ 158 ° F (0 ~ 70 ° C)
Operating Temperature	68 ~ 122 ° F (20 ~ 50 ° C)
Operating Humidity	20-80% RH, (Non Condensing)
Dimensions	0.6 in. (1.7 cm) x 6.4 in. (16.5 cm) x 3.1 in. (8.1cm)
Weight	.45 lbs. (.20 Kg)
Case	Aluminum

Radio & TV Interference Statement

WARNING!!! This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. This equipment has been tested and found to comply with the limits for a Class B computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Limited Warranty

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK, OR ITS DOCUMENTATION EXCEED THE PRICE PAID FOR THE PRODUCT.

The direct vendor makes no warranty or representation, expressed, implied, or statutory with respect to the contents or use of this documentation, and especially disclaims its quality, performance, merchantability, or fitness for any particular purpose.

The direct vendor also reserves the right to revise or update the device or documentation without obligation to notify any individual or entity of such revisions, or updates. For further inquiries please contact your direct vendor.



Contact info.

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