Other World Computing

OWC Mercury Elite Pro "Classic"

External Storage Enclosure for 3.5" Serial ATA Hard Drives (SATA)

Assembly Manual

Thank you for purchasing the OWC Mercury Elite Pro. We're confident that it will provide years of high performance service for your storage and backup needs.

Should you require additional support after reading this manual along with helpful tips and FAQs, please see the inside back page for OWC customer support options.

1 INTRODUCTION

1.1 System Requirements

1.1.1 Mac Requirements
•Minimum PowerPC® G4 CPU, 128MB RAM
•eSATA interface, Mac OS X 10.3 or later
•FireWire® interface, Mac OS X 10.2 or later
•USB 2.0 interface, Mac OS X 10.2 or later
•USB 3.0 interface - see your interface card manufacturer for specifications

1.1.2 PC Requirements
•Minimum 500MHz Intel® Pentium III CPU, 128MB RAM
•eSATA interface, Windows® XP / Vista® / Windows 7
•FireWire interface, Windows 2000 / XP / Vista / Windows 7
•USB 2.0 interface, Windows 2000 / XP / Vista / Windows 7
•USB 3.0 interface - Windows XP / Vista / Windows 7

1.2 Package Contents

Item

① 36" FireWire 400 cable *
② 36" Flexible eSATA cable *
③ 36" USB 2.0 (A-B) cable *
④ Removable feet for enclosure ***
⑤ 36" FireWire 800 cable *
⑥ 36" USB 3.0 (A-B) cable **
⑦ Power Cable ***
⑧ Power Transformer ***
⑨ Screws to attach hard drives ***
⑩ Software CD Bundle ****
⑪ User Guide & Owner's Manual ***

Included with Quad Interface models ONLY
**Included with USB 3.0 models ONLY*
***Included with ALL models*
****Incuded with models which include software bundle ONLY. See website description for details.*

1.3 About This Manual
Firmware, images, and descriptions may vary slightly between this manual and the unit shipped. Functions and features may change depending on the firmware version. Please visit the product webpage for the most recent specifications.

1.4 Port View & Cable Connections
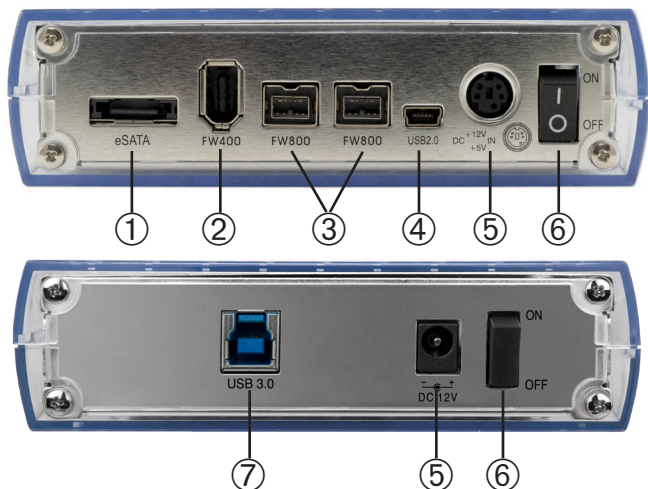
The OWC Mercury Elite Pro comes equipped with multiple connection interfaces and in different models to ensure the maximum computer compatibility and portability.

eSATA

The fastest connection on the Mercury Elite Pro Quad is the eSATA connection ①, which provides speeds up to 300 MB/sec.

FireWire

The Mercury Elite Pro Quad features two FireWire 800 ports ③ and one FireWire 400 port ②. FireWire 800 provides speeds up to 100 MB/sec and FireWire 400 provides speeds up to 50 MB/sec.

FireWire also has the ability to daisy-chain or connect multiple FireWire devices together through one FireWire connection to the computer. OWC recommends having only one bus-powered device in the chain due to the limited amount of power a single FireWire port can provide. If a FireWire 400 device is chained with FireWire 800 devices, all devices will throttle down to FireWire 400 speeds.

USB 2.0

The Mercury Elite Pro Quad features one USB 2.0 mini port ④ that provides speeds up to 60 MB/s. Use it for backwards compatibility with older systems, or on PCs that do not have either an eSATA or FireWire port.

Power Port

Plug the included power transformer into this connection.

Power Switch

It is recommended to always utilize the On/Off power switch ⑤ to ensure proper startup and shutdown of the Mercury Elite Pro when connecting and disconnecting from the computer. OWC recommends attaching the data and power cables before switching the power on. When disconnecting, make sure to unmount and then turn off the Mercury Elite Pro before disconnecting the data and power cables.

USB 3.0

The Mercury Elite Pro USB 3.0 features one USB 3.0 port ⑦ that provides speeds up to 600 MB/s. It is the fastest connection available on any OWC Mercury Elite Pro and is backwards compatible with USB 2.0 for use with older systems.

1.5 Front Activity Light View

The Mercury Elite-AL Dual mini features two multi-color LED indicator lights. The left light corresponds to the left drive, with the right light corresponding to the right drive. Each LED light will illuminate red or blue in color to indicate different activities.

2 SYSTEM SETUP

This guide will get you up and running quickly, demonstrating how to install your own 2.5" hard drives into the OWC Mercury Elite Pro enclosure.

Your computer is a static-sensitive device. It is susceptible to invisible damage if not protected during installation.

We recommend proper grounding by using a grounding strap. Make sure to work in a clean and static-free area, and avoid wearing clothing that retains static charges.
For more information, please visit
http://www.macsales.com/static

Got tools? If you don't have the tools necessary to complete this installation, Newer Technology has a fantastic toolkit with everything you need included to perform this installation, and most common computer hardware installations.

It's available at:
http://www.macsales.com/tools

2 SYSTEM SETUP
2.1 Hard Drive Assembly & Installation

①

Remove the top cover from your OWC Mercury Elite Pro enclosure by sliding the top cover towards the rear of the unit.
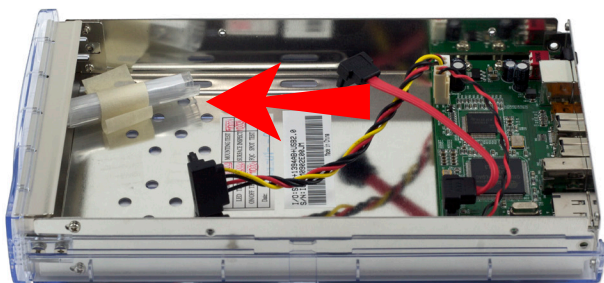
②

Then, remove the single Phillips screw securing the top metal shield. Lift up on it to remove, exposing the inside of the enclosure.

2 SYSTEM SETUP

2.1 Hard Drive Assembly & Installation (continued)
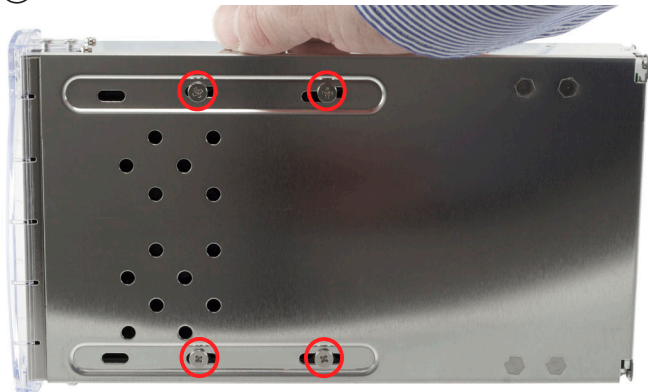
③

Remove the taped down packet of screws.

④

Insert the power and SATA cables into the back of the hard drive and place the drive mechanism into the enclosure.

2 SYSTEM SETUP

2.1 Hard Drive Assembly & Installation (continued)

⑤

Turn the enclosure on it's side, removing the bottom plastic outer shell, and securing the drive you just placed into the enclosure with your fingers as shown above. Lift up on the hard drive mechanism and line the screwholes up with the cutouts on the bottom of the enclosure.

Remove the 4 large Phillips screws from the plastic bag and insert them through the bottom of the enclosure, firmly tightening into the new hard drive mechanism.
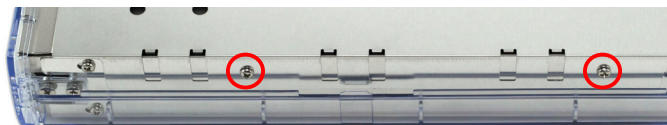
⑥

Lay the power and SATA wires flat inside the case, then place the metal shield back on top of the enclosure.

2 SYSTEM SETUP

2.1 Hard Drive Assembly & Installation (concluded)

⑦

Secure the metal shield with the 3 short Phillips screws that were inside the clear plastic bag and the one screw you removed to initially remove the metal cover - it takes 2 per side to assemble.

⑧

Place the top cover back onto the OWC Mercury Elite Pro, sliding it into the guide rails.

⑨

Insert the 4 screws through the top and bottom covers into the body of the OWC Mercury Elite Pro.

2 SYSTEM SETUP

2.2 Computer Connections

Please see the previous section which details the different interface options available to you with your OWC Mercury Elite Pro.

Choose which interface you wish to connect to your computer, connect that interface and then you need to format the hard drives you just installed into your new OWC Mercury Elite Pro enclosure. Proceed to the next page to learn how to do that.

Important Note! You can connect multiple drives together using either of the FireWire connections. No other interface type supports this type of "daisy chain" connection. If you connect a FireWire 400 device, all devices connected via the FireWire bus, including FireWire 800 drives, will be reduced to the maximum speed of FireWire 400.
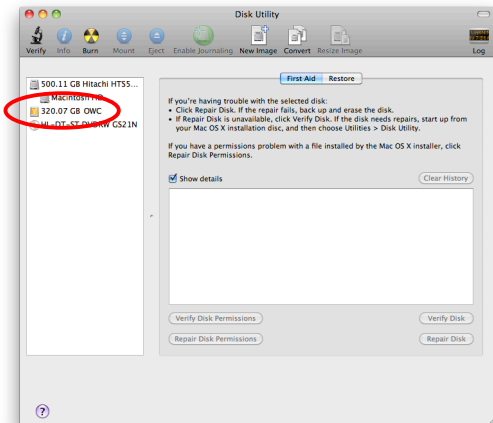
3 FORMATTING

3.1 Formatting your OWC Mercury Elite Pro on a Macintosh with Mac OS X

IMPORTANT NOTE: This procedure will erase all data on your hard disk drives in the OWC Mercury Elite Pro. Back up any important data before proceeding!
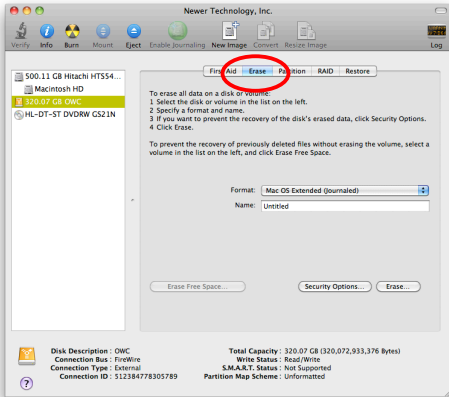
Open the Disk Utility application, which is located in /Applications/Utilities

Select the device with no volumes attached to it; in this picture, that would be the 320.07 GB OWC device. Click on the picture of the drive icon next to the text.
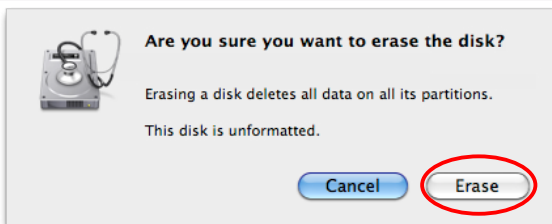
②

Once you've selected the OWC device, you will notice the above change in the Disk Utility application. Click on the "Erase" tab in this picture.

③
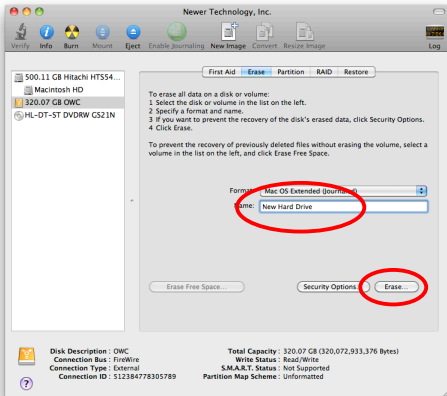
You then need to name the volume that you want to format, and erase it. Name the volume as you want, choose the Volume Format pulldown (Mac OS Extended (Journaled) is default), and click the Erase button.

④

Are you sure you want to erase the disk?

Erasing a disk deletes all data on all its partitions.

This disk is unformatted.

(Cancel)   (Erase)

Click the erase button to confirm you wish to erase the disk.

⑤
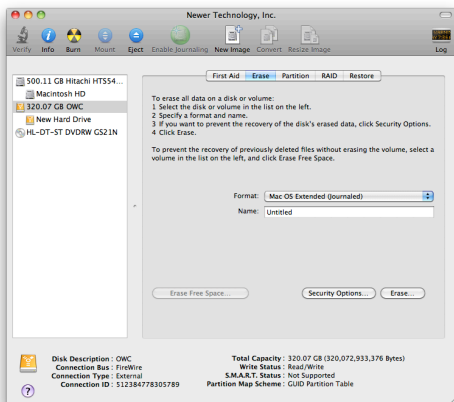
After a few moments, the erase command will complete and the OWC Mercury Elite Pro volume will mount on your desktop. You can quit Disk Utility, you're all set!

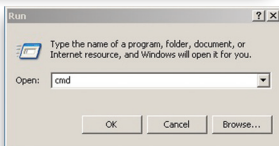**3.2 Removing the GUID Partition Scheme**
Only for XP, 2000, ME and earlier. (XP 64-BIT, Vista & Windows 7 can continue to the next section)
If your OWC Mercury Elite Prowas formatted for use on a Macintosh, it will not be readable by Windows without special software. If you wish to use your storage solution on a computer running Windows, you will need to repartition and reformat using the following instructions.
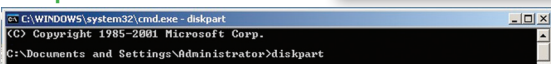
① Go to the DOS command prompt by selecting "Run" from the Start Menu.
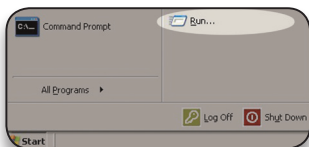
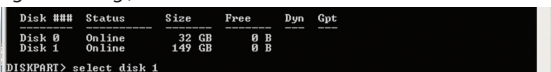② Type in **cmd** in text box, and hit the "OK" button.

③ Type **diskpart** and hit enter.

```
C:\WINDOWS\system32\cmd.exe - diskpart
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>diskpart
```

④ Type **list disk** and hit enter.

```
Microsoft DiskPart version 5.1.3565

Copyright (C) 1999-2003 Microsoft Corporation.
On computer: BBELLMAN-XP

DISKPART> list disk
```

⑤ Type **select disk x** replacing *x* with the number of the disk you want to reformat. (Typically, you will see an asterisk (*) under "GPT" for the disk requiring formatting.)

```
Disk ###   Status      Size      Free     Dyn   Gpt
--------   ------      ----      ----     ---   ---
Disk 0     Online      32 GB     0 B
Disk 1     Online      149 GB    0 B

DISKPART> select disk 1
```

> ⚠ **WARNING:** The **clean** command will destroy ALL data on the disk you run it on!!! Be sure there is **nothing** you need to keep on your drive before running any of these commands.

⑥ Type **clean** and hit enter.

```
Disk 1 is now the selected disk.

DISKPART> clean
```

⑦ Type **exit** and hit enter.

⑧ Close the command prompt window.

You may now proceed with formatting the drive.

**3.3 Formatting your OWC Mercury Elite Pro on Windows 2000 and later**

Instructions for other operating systems can be found at http://www.macsales.com/format.

IMPORTANT NOTE: This procedure will erase all data on your hard disk drives in the OWC Mercury Elite Pro. Back up any important data before proceeding!

① With the drive connected to the computer and powered on, right click on the "My Computer" icon and select "Manage" from the menu. The "Initialize and Convert Disk Wizard" window should appear.

If the Wizard does not appear, expand the Storage menu by clicking on the plus (+) sign.

Then, right click next to the disk number of the drive that you have just connected and click Initialize to bring up the Wizard.
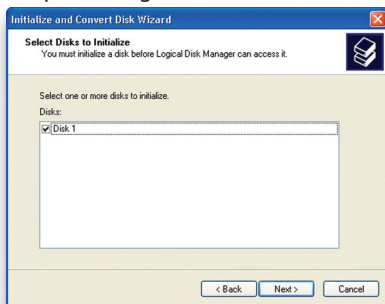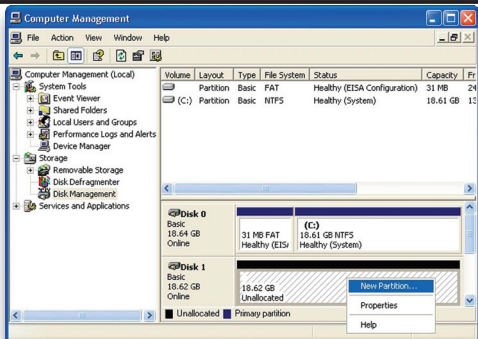
② In the next window, there should be only one drive listed. That will be the drive that you connected via eSATA, FireWire or USB. Make sure the box next to the drive name is checked and click "Next."
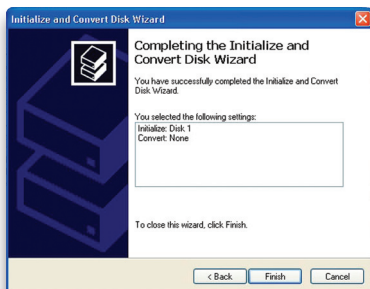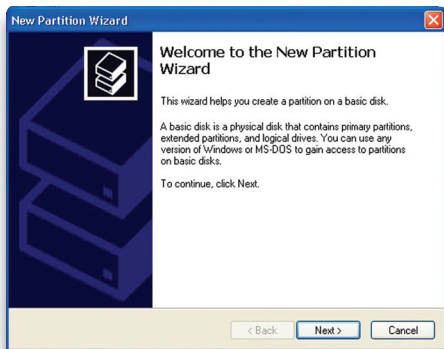
③ The Wizard will perform its tasks, and you will get the following screen. You may click "Finish."

④ Your drive will appear similar to how Disk 1 does below. Notice that the space on the lower right reads as "Unallocated." Right click in this space and choose "New Partition."

⑤ The "New Partition Wizard" will launch. Click "Next" to continue.

Welcome to the New Partition Wizard

This wizard helps you create a partition on a basic disk.

A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. You can use any version of Windows or MS-DOS to gain access to partitions on basic disks.

To continue, click Next.

⑥ Specify your partition type as "Primary," and click "Next."

Select the partition you want to create:

⦿ Primary partition
○ Extended partition
○ Logical drive

⑦ The wizard will display the maximum partition size for your drive. It is strongly recommended that you **do not** change the default value. Click "Next"

Maximum disk space in megabytes (MB):	19069
Minimum disk space in MB:	8
Partition size in MB:	19069

⑧ If you like, you can specify the drive letter designation for your new drive. Otherwise, one will automatically be assigned. Click "Next."
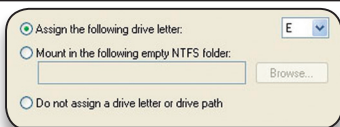
⑨ Before you can use the drive, it must be formatted. On most systems running Windows 2000 or later, it is advisable to specify the file system as NTFS. Leave the Allocation unit size as "Default," and feel free to give the drive whatever name you prefer. Be sure to check the box "Perform a quick format".
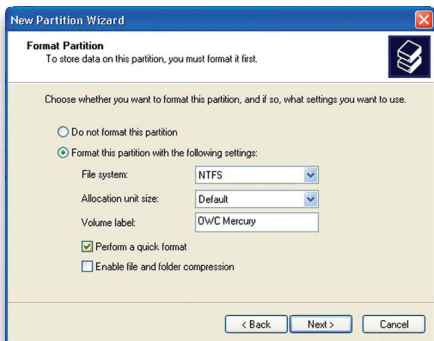
If you do not check the "Perform a quick format" box, it will take several hours for your drive to format. Click "Next."

⑩ At the end of the Wizard, you will see a summary of the information that you specified during the previous steps. Click "Finish."
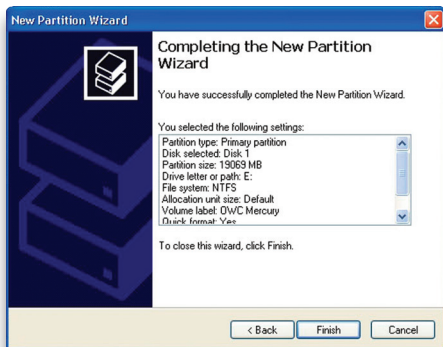
①① Once you have finished with the formatting wizard, you will see that your new drive (represented as "Disk E" in this case) will display a message of "Formatting." This should only take a couple of minutes if you chose the quick format option.
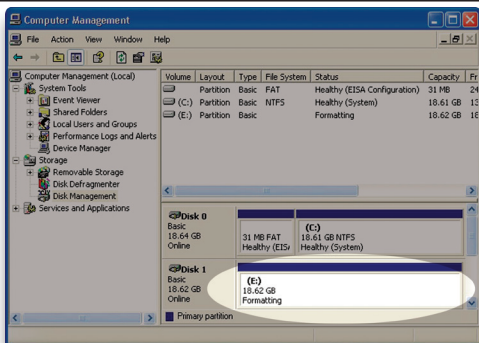
①② After a moment or two, the drive's status will change from "Formatting" to "Healthy."
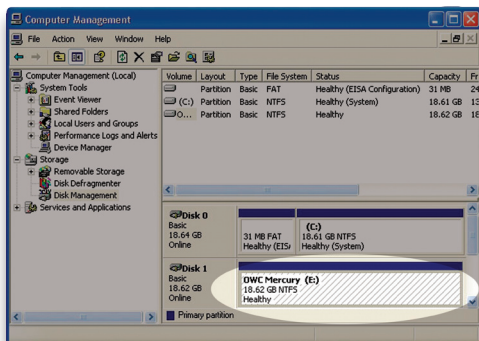
①③ At this point, you may close the Computer Management window. Your drive is ready to use and can be found in "My Computer."

Using your new Storage Solution on both Macs and PCs?

MacDrive™ takes the guesswork out of sharing files. Whether you are transferring files between home and the office, a class room lab and your dorm room or even on the same computer, MacDrive makes it painless.
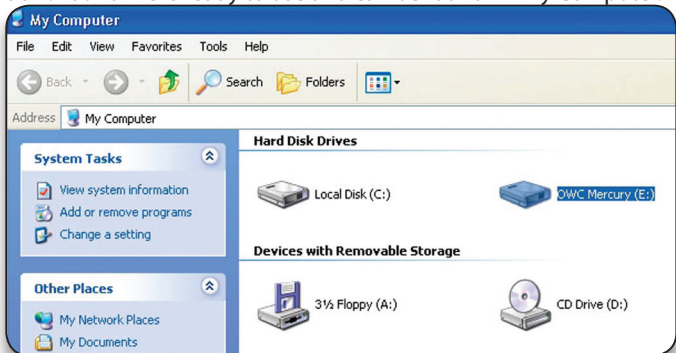In fact, you'll hardly know MacDrive is working.

Once installed MacDrive will automatically give you access to any Mac disk you pop into your computer. MacDrive even puts an "apple" icon on the Mac disk, just to keep things clear.

You can access files on the Mac disk just like you would with a Windows formatted disk. Open files from the disk or from within a program. Mac files automatically get the right icons and file name extensions under both Windows and Mac OS.
Works great with software from Microsoft, Adobe, Quark, FileMaker, Avid, Digidesign, Corel, NewTek and more.

You can find MacDrive at:
http://eshop.macsales.com/search/macdrive
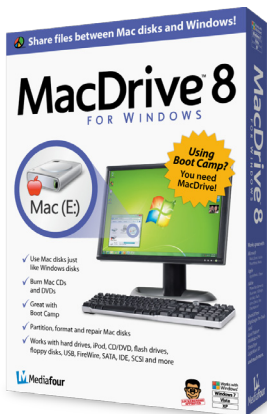
4 TROUBLESHOOTING & TIPS

4.1 Troubleshooting

Some of the most simple problems can be traced to power, or connectivity issues. Verify that your cables (both ends!) are properly plugged into the computer and storage solution. If one connection type does not work, switch to another interface and try the solution again. If these suggestions do not work, try the OWC Mercury Elite Pro on a different computer, if available to you.

4.2 Tips

To properly unmount any connected hard drives from your computer, you need to follow a few simple steps.

• For Macintosh systems:
There are multiple methods to umount disks with Macintosh systems. Either drag the icon for the hard disk you wish to dismount to the trash can, or you can click the eject icon next to the hard disk name in under the "DEVICES" tab in the sidebar in any finder window, and finally another method is to right click on the hard drive icon on your desktop and select "Eject".

• For Windows systems:
1. Go to the System Tray (located in the lower right corner of your screen). Click on the Eject icon (a small green arrow over a hardware image).
2. A message will appear, detailing the devices that the Eject icon controls. i.e. "Safely remove..." Click on this prompt.
3. You will then be given the following message. "Safe to Remove Hardware". It is now safe to unhook the OWC Mercury Elite Pro.

Cloning your hard drive (making an exact copy of it):
If you want to make an exact duplicate of a hard drive, we highly recommend Mike Bombich's donationware "**Carbon Copy Cloner™**". It's a great tool and is included with the bundled software CD provided with this storage solution.

Custom OS X Icons
If you wish to replace the custom OS X icon for your new hard drive, you can find instructions and a download link on our Web site:
http://eshop.macsales.com/hdicons

5 APPENDIX

5.1 FAQ

Q: How do I format my storage solution?
A: OWC has detailed instructions online for most popular operating systems, located at: http://eshop.macsales.com/tech_center/fwhdd.cfm

Q: What file system should I choose when formatting my drive?
A: This will depend on how you want to use the drive, but in general we recommend:

• Mac OS X : HFS + (Mac OS Extended)
• Windows 2000/XP/Vista/7 : NTFS
• For cross-platform compatibility, FAT32 will work, but single file sizes are limited to 4GB. Other options using 3rd party software exist but are not covered here.

Q: Will the hard drives spin down when my computer goes to sleep or into stand-by mode?
A: Yes, they will spin down to save energy. It will take about 30 seconds to access your data after being in sleep or stand-by mode.

5.2 About Data Protection

To ensure that your files are protected and to prevent the loss of your data, we strongly suggest that you keep two copies of your data: one copy on your OWC Mercury Elite Pro, and a second copy on either your internal hard drive or another storage medium, such as an optical backup, or on a second external hard drive. Any data loss or corruption while using the OWC Mercury Elite Pro is the sole responsibility of the user, and under no circumstances will Other World Computing be held liable for compensation or the recovery of any lost data.

6 CUSTOMER SERVICE

6.1 Before Contacting Customer Service

•Read this manual and review Chapter 4: Troubleshooting & Tips.
•Try to confirm the problem is with the hard drive. If you have a second computer, move the enclosure to that system and verify that the solution does not function with that machine.

•Visit our tech center for more support suggestions, including FAQs.
        http://eshop.macsales.com/tech_center/index.cfm

If you still need support, please have the following available to you:
• The serial number of the enclosure
• Your invoice number
• What operating system you are using
• Which kind and model of computer you are using

All of this will help speed your support contact along.

6.2 Support Hours Of Operation

8AM - 10PM CT Monday - Friday
9AM - 4PM CT Saturday

By Telephone - (800) 275-4576 (North America only)
International customers please call (815) 338-8685

Live Chat is available 24 hours a day, 7 days a week . Visit:
http://eshop.macsales.com for more information.

Or, you can email. Submit your email at
http://eshop.macsales.com/Service/Tech.cfm

Changes:

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FCC Statement:

Warning! Modifications not authorized by the manufacturer may void the user's authority to operate this device.

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

NOTE: 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 a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Health And Safety Precautions:

• Use proper anti-static precautions while performing the installation of your hard drives into this drive enclosure. Failure to do so can cause damage to your drive mechanisms, and / or the hard drive enclosure.

• Read this User's Guide carefully, and follow the correct procedure when setting up the device.

• Do not open your hard drive or attempt to disassemble or modify it. Never insert any metallic object into the drive to avoid any risk of electrical shock, fire, short-circuiting or dangerous emissions. Your hard drive contains no user-serviceable parts. If it appears to be malfunctioning, have it inspected by a qualified Other World Computing Technical Support representative.

• Never expose your device to rain, or use it near water, or in damp or wet conditions. Never place objects containing liquids on the drive, as they may spill into its openings. Doing so increases the risk of electrical shock, short-circuiting, fire or personal injury.

General Use Precautions:

• Do not expose the enclosure to temperatures outside the range of 5° C to 40° C (41° F to 104° F). Doing so may damage the drive or disfigure its casing. Avoid placing your drive near a source of heat or exposing it to sunlight (even through a window). Conversely, placing your drive in an environment that is too cold or humid may damage the unit.

• Always unplug the hard drive from the electrical outlet if there is a risk of lightning or if it will be unused for an extended period of time. Otherwise, there is an increased risk of electrical shock, short-circuiting or fire.

• Use only the power supply shipped with the device.

• Do not use the hard drive near other electrical appliances such as televisions, radios or speakers. Doing so may cause interference which will adversely affect the operation of the other products.

• Do not place the drive near sources of magnetic interference, such as computer displays, televisions or speakers. Magnetic interference can affect the operation and stability of your hard drive.

• Do not place heavy objects on top of the drive.

• If you detect a problem, consult the Troubleshooting section in this manual.

• Protect your hard drive from excessive exposure to dust during use or storage. Dust can build up inside the device, increasing the risk of damage or malfunction.

• Other World Computing recommends the use of normal glass cleaning products to keep the high lustre finish at its finest with this product. Be sure not to get any moisture inside the holes and if you do, allow time to air dry before use.

• Do not block the ventilation outlets on the front of the drive. These help to keep your drive cool during operation. Blocking the ventilation outlets may cause damage to your drive and cause an increased risk of short-circuiting or fire.

R1 3/31/10 JD

(800) 275-4576

OWCMANMECLSASY