

FUSION™ 400

4-Bay Serial ATA Hot-Swap Drive Enclosure

User's Guide



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Fusion 400 Specifications and Features

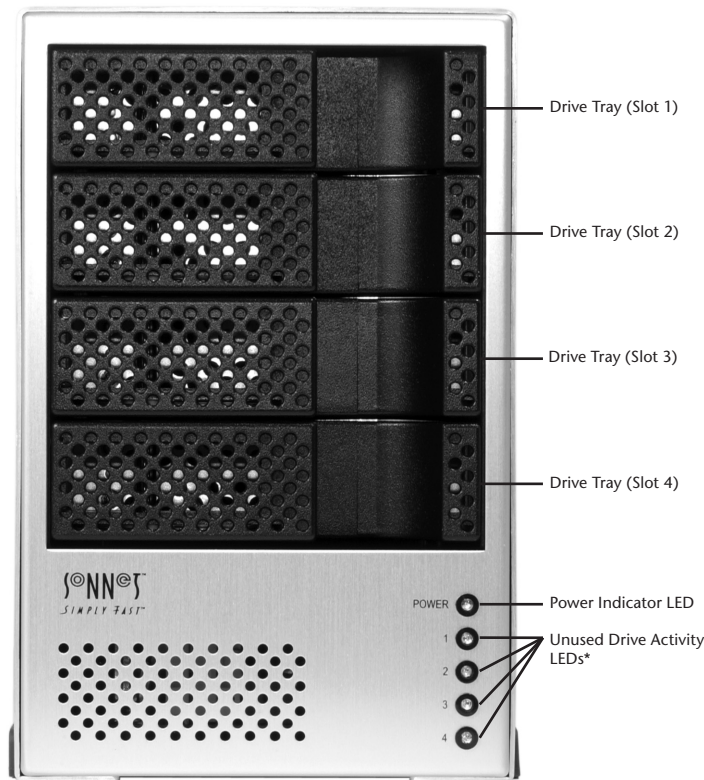


Figure 1

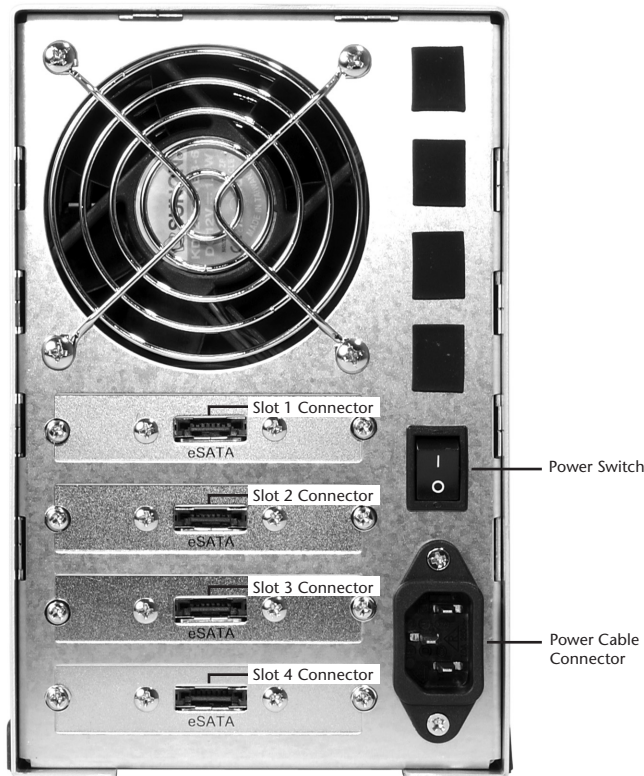


Figure 2

* This enclosure was originally designed for use with SCSI drives; the unused drive activity LED's indicated data reads and writes. Serial ATA does not support drive activity signals, so Fusion 400's LEDs just light up.

Specifications

Compatibility	Compatible with Mac, Windows, and Linux computers with compatible SATA controller
External Connectors	Four eSATA
Drives Supported	1.5 & 3 Gb per second Serial ATA; up to 10,000 RPM
Data Transfer Speed	Up to 300MB per second per drive
OS Support	Platform Independent
Power Supply	90-260v Universal
Operating Temperature	+41° F to +131° F (+5° C to +55° C)
Dimensions	7.47 x 5.16 x 11.58" (189.6 x 128.45 x 294mm)
Weight	13.5 lbs
Package Contents	Disk enclosure, four 3.5" drive trays, drive mounting screws, power cord, four 1 meter eSATA data cables, User's Guide
Warranty	3-year limited warranty

Introduction and Safety Precautions

Introduction

Sonnet's Fusion 400 4-bay Serial ATA (SATA) drive enclosure combines the versatility of hot-swap functionality with support for the fastest 3.5" SATA drives in a compact package. This enclosure supports 3Gb/s drives and is backward compatible with 1.5Gb/s drives, so you'll get maximum flexibility in choosing drives for years to come.

Fusion 400 was designed with form and function in equal balance. The drive trays have built-in locking levers that double as handles to make swapping drives easy; its powerful built-in universal power supply and the cable-less connections from drives to enclosure simplify setup and assure reliability over the long haul. The enclosure's fan pulls air through its holes and those in the tray handles to cool the drives (even the bottom of each removable tray is perforated for air flow) to make Fusion 400 a cool running solution—the lower the drives' temperature, the lower the failure rate.

Whether you start off with one drive for simple backups, or stuff Fusion 400 with the highest capacity, fastest SATA drives you can get your hands on to create a high def digital video editing suite, this is a product sure to leave you SATAsfied!

SAFETY PRECAUTIONS

Please read this section carefully before proceeding. These precautions explain the correct and safe use of this device, thereby helping to prevent injury to you or others, and also help you to minimize the risk of damaging the device.


Warnings

Always follow the basic warnings listed here to avoid the risk of serious injury or death from electrical shock, short-circuiting, fire, and other hazards. These warnings include, but are not limited to:

- Do not attempt to disassemble or modify the enclosure. This device contains no user-serviceable parts; if it appears to be malfunctioning, contact Sonnet Customer Service.
- Do not drop the enclosures or any of its drive trays; dropping or mishandling of the enclosure or drive trays may result in a malfunction.
- Do not insert your fingers or foreign objects inside the enclosure; take particular care when small children are present.
- Do not expose the device to rain, use it near water or containers that contain liquids which might spill into any openings, or in damp or wet conditions.
- If unusual smells, sounds, or smoke come from the device, or if liquids enter it, switch it off immediately and unplug it from the electrical outlet.
- Follow the instructions in this manual carefully; contact Sonnet Customer Service for additional advice not covered in this User's Guide.


Drive Installation and Enclosure Setup

1. Remove the Fusion 400 from its packaging, and place the enclosure near the computer to which it will be connected.
2. Remove a drive tray from the enclosure by pulling on its lever, and then sliding it out. Lay it on a flat, level surface (**Figure 3**).

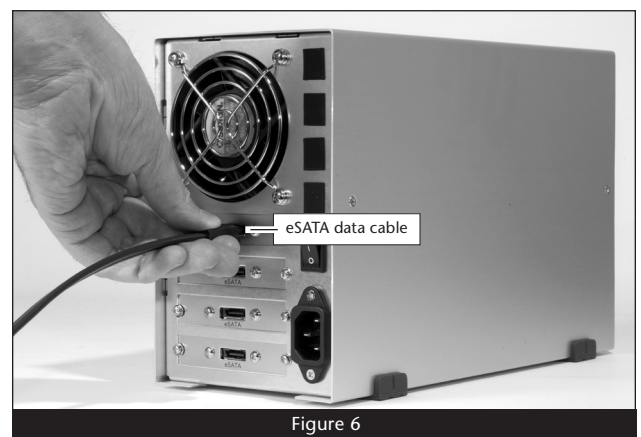
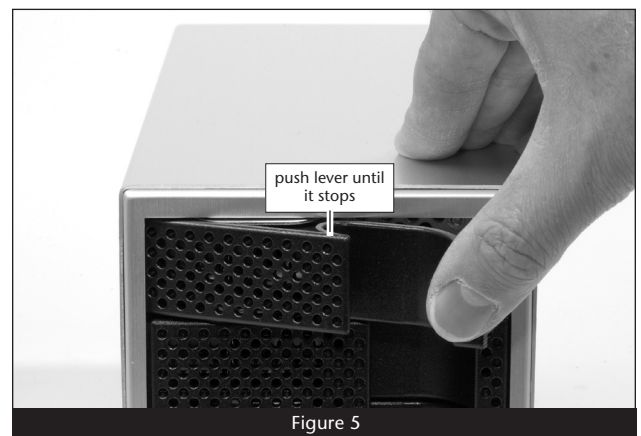
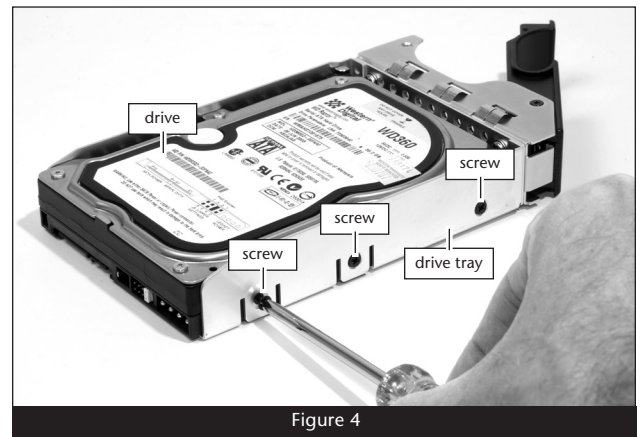
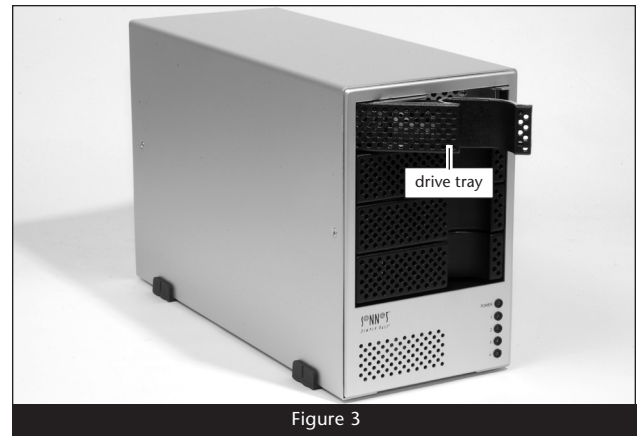
 **WARNING:** When handling computer products, take care to prevent components from being damaged by static electricity; avoid working in carpeted areas. Handle hard drives only by their edges and avoid touching connector traces and component pins.

3. Remove a SATA drive from its packaging and set it in the drive tray label-side up, with the drive's connectors facing the rear of the tray (**Figure 4**).
4. Using six of the supplied screws, secure the drive to the drive tray (**Figure 4**).

5. Carefully insert the drive tray into the enclosure until it stops, and then push the lever in to secure the drive and tray inside the enclosure (**Figure 5**).
6. Repeat steps 2-5 for additional drives.

 **Support Note:** If your Serial ATA host controller card has internal SATA connectors instead of eSATA connectors, you must use cables different than those supplied with Fusion 400. Sonnet strongly suggests you use high-quality shielded external cables with eSATA connectors on one end, and SATA I (internal) connectors on the other.

7. Connect the supplied eSATA data cables between the enclosure and the SATA host controller in your computer; **verify the connectors are plugged in securely** (**Figure 6**).
8. Connect the supplied power cable between the Fusion 400 and a grounded wall outlet or power strip; **verify the cable is plugged in securely**.
9. Push the switch on the back of the enclosure to the ON position, and then power on your computer.
10. Format the drives installed in the Fusion 400 according to your needs; refer to your operating system's software guide or help section for more information.



Tips and Additional Information

Tips

This section covers some common sense tips for using the Fusion 400 enclosure.

Hot-swapping drives:

Fusion 400 supports hot-swapping drives, enabling you to swap out a drive or an array of drives without having to shut down the enclosure or your computer. This does not mean you can simply pull out a drive at any time; you follow the procedure below or you may lose data in the process.

- Before removing a tray, you must put away (eject, unmount, dismount) the drive volume. For Mac OS users, simply drag the drive icon associated with the drive(s) you wish to remove to the eject icon on the dock (or trash can on the desktop). Windows users may left-click on the eject icon in the taskbar for the drive they wish to eject.

Connections:

Fusion 400 uses eSATA data cable connectors to ensure the best connection. If you experience issues where a drive or volume does not appear, or you see an error message stating a drive is missing when you have the drives set up in an array, the cause may be as simple as a loose connection.

- If you do experience any trouble, disconnect the data cables and reconnect them one at a time, making sure each one “clicks” in place.

Limited Warranty

Sonnet Technologies, Inc. warrants that this product shall be free from defects in materials and workmanship for a period of three years following the date of original purchase. For complete warranty information, go to www.sonnettech.com.

Contacting Customer Service

The Sonnet web site located at www.sonnettech.com has the most current support information and technical updates.

Before you call Sonnet Customer Service, please check our web site for the latest updates and online support files, and check this User's Guide for helpful information. When you call Sonnet Customer Service, have the following information available so our customer service staff can better assist you:

- Product name
- Date and place of purchase
- Hard drive model(s)
- SATA host controller manufacturer and model number
- Computer model
- Operating system

If further assistance is needed, please contact us at:

Sonnet Customer Service:

Tel: 1-949-472-2772

(Monday–Friday, 7 a.m.–5 p.m. Pacific Time)

Fax: 1-949-457-6350

E-mail: support@sonnettech.com

Online Service Form: <http://serviceform.sonnettech.com>

Visit Our Web Site

For the most current product information and online support files, visit the Sonnet web site at www.sonnettech.com. Remember to register your product online at <http://registration.sonnettech.com> to be informed of future upgrades and product releases.



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Software updates and links are available from the Sonnet web site at www.sonnettech.com. • Online support form available at <http://supportform.sonnettech.com>.

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