

FireFly™



SIMPLIFYING THE DIGITAL LIFESTYLE

SMARTDISK™

User Guide
for Windows®
and Macintosh®

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SmartDisk Corporation
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Naples, Florida 34104

FCC Compliance and Warning

FireFly 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 or television communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to 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 other than that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Congratulations on your purchase of FireFly. FireFly is fast, small, light, and portable. You can take it anywhere so that you always have access to your important applications, files, and data.

FireFly connects to your computer with a FireWire cable. This means no external power source (A/C adapter or batteries) is required. FireFly is very easy to use; all you need to do is plug it in and you are ready to go. FireFly works on both PC and Macintosh computers, laptop or desktop.

About this User Guide

This guide describes how to install and use FireFly. For last minute information, please refer to the readme file found on the FireFly Installation CD.

Features and Benefits

Your FireFly provides valuable features and benefits that will make your digital lifestyle easier:

- Small, thin, and light; you can carry FireFly in your briefcase, purse, or even your pocket.
- Powered from the FireWire Bus; no external power supply is required.
- Hot-pluggable; no need to restart your computer when you connect or unplug FireFly. The FireFly icon automatically appears on the desktop (for Macs) and *My Computer* (for PCs).
- You don't need bulky cables, terminators or set SCSI ID switches.
- You can easily move FireFly from one computer to another giving you unlimited access to all your applications, files, and data.
- You can run applications, view videos, or play MP3 files directly from FireFly.
- Can be used on both PC and Macintosh computers.

Package Contents

Your FireFly package contains the following:

- FireFly Hard Drive
- Software Installation CD which includes all the required drivers, user documentation, and 3rd party software

- FireWire (IEEE 1394) 6-Pin Cable
- FireFly Carry Case
- QuickStart Card

For FireFly accessories such as FireWire cables of various length, please go to our website at: <http://www.smartdisk.com>

System Requirements

Mac OS Users

- Any Macintosh with built-in FireWire port or a Power Macintosh G3 with a powered PCI 6-pin FireWire adapter
- Mac OS 8.6 to 9.x, Mac OS X 10.1 or higher
- A CD-ROM drive to install the software.

PC Users

- A Windows-compatible PC with built-in 6-pin FireWire port or a powered PCI 6-pin FireWire adapter
- Windows 98SE/Me/2000/XP
- A CD-ROM drive to install the software.

Additional Software for Macintosh Users

The FireFly CD contains additional software for Macintosh users to help you work with FireFly.

SmartDisk Tools™

SmartDisk Tools is a utility program for Macintosh computers used to prepare all SmartDisk FireWire hard disks and storage devices. The utilities in *SmartDisk Tools* are used to:

- Format and partition FireWire devices such as FireFly. You can format them for DOS or Macintosh.
- Test your FireWire device.
- Add an extension (also called a driver) which allows your computer to detect and use FireWire devices.

For more information, refer to the *SmartDisk Tools* documentation contained on the FireFly CD.

CopyAgent™

The FireFly Installation CD contains a automated backup application for Mac users called *CopyAgent*. *CopyAgent* streamlines and automates your backups. It is flexible so you can perform copy jobs right away or schedule automatic and unattended backups. For more information, refer to the *CopyAgent* documentation contained on the FireFly CD.

Technical Support

If you have any questions or problems with FireFly, please go to our Technical Support website at:

<http://www.smartdisk.com/support.asp>

SmartDisk recommends that you install the software contained on the Installation CD. Although your FireFly may work without this software (drivers), installation of the software adds functionality on Macintosh computers and ensures optimum performance on PCs.

The following software installation procedures only need to be done once on a computer. Thereafter, you can connect and unplug FireFly as needed.

Mac OS Users

- 1 Insert the FireFly installation CD into your CD-ROM drive.
- 2 Double-click the **Install SmartDisk Tools** icon.
- 3 Follow the on-screen instructions.

You can now connect FireFly anytime (as described on page 13) to transfer files and data.

PC (Windows) Users

- 1 Connect the FireFly to your computer as described on page 14.
- 1 Insert the FireFly installation CD into the CD-ROM drive.
- 2 Open *My Computer* or *Windows Explorer*.
- 3 Double click on the CD icon or drive letter assigned to the CD-ROM drive.
- 4 Double-click on **Setup.exe**.
- 5 Follow the on-screen instructions.

You can now connect FireFly anytime (as described on page 13) to transfer files and data.

Special Instructions for Windows 98 SE Users

Follow the instructions in this section if both of the following is true:

- You are a Windows 98SE user.
- You are prompted to insert the Windows 98SE CD after you connect the FireFly.

The problem is Windows 98SE does not fully support hot unplugging. A system failure (blue screen) may occur if you remove the FireWire drive while the computer is running. To fix this problem (and improve performance), you must install the latest FireWire (1394) software drivers. Locate, download, and install the latest FireWire (1394) software driver from the Microsoft website: <http://windowsupdate.microsoft.com>

Mac OS Users

Connecting FireFly to a Macintosh Computer



Caution

Before connecting and using FireFly, put it on a stable surface. Sudden movement during operation may cause data transfer errors and may damage the hard disk.

- 1 Connect one end of the FireWire cable to an open FireWire port on your Macintosh.
- 2 Connect the other end of the cable to the FireWire port on FireFly. The FireFly icon appears on the desktop.



Caution

Do not force the connection as damage may occur to the connector or the FireWire port.

Disconnecting FireFly from a Macintosh Computer



Caution

Do not unplug FireFly while it is mounted on the desktop. If you unplug FireFly while accessing or copying files, data may be lost or FireFly may be damaged. To disconnect FireFly, complete the following steps.

- 1 Close all files and applications stored on FireFly.
- 2 Drag FireFly icon to the trash.
- 3 Wait until the yellow light stops flashing.



Caution

The blue light may remain on at this point if you are using Mac OS X 10.0 -10.1. It is OK to unplug FireFly if the blue light remains on. However, do not unplug FireFly if the yellow light is flashing.

- 4 You can now safely unplug FireFly. Gently pull out the FireWire connector from the computer.



Tip

You can also safely unplug FireFly by shutting down the computer. Remember to ensure the lights are off before unplugging.

PC (Windows) Users



Caution

Before connecting and using FireFly, put it on a stable surface. Sudden movement during operation may cause data transfer errors and may damage the hard disk.

Connecting the FireFly to a PC

- 1 Connect one end of the FireWire cable to the FireWire port on your computer.
- 2 Connect the other end to the FireWire port on FireFly. The FireFly icon appears in *My Computer* and in *Windows Explorer*.



Caution

Do not force the connection as damage may occur to the connector or the FireWire port.

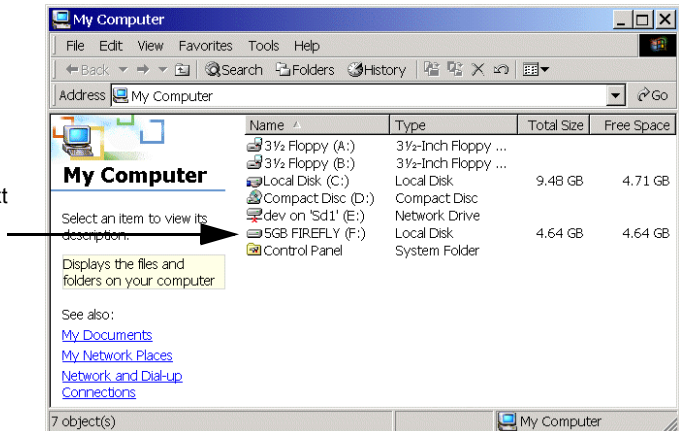
The FireFly is assigned the next available drive letter. For example, if your hard drive is assigned the letter C: and a removable CD Writer is currently installed on your computer using the letter D:, then the letter E: is assigned to the FireFly.



Note

If you are a Windows 98SE user and Windows prompts you to insert the Windows 98SE Install Disk, follow the instructions in “Special Instructions for Windows 98 SE Users” on page 11.

The FireFly is assigned the next available drive letter when it is connected




Disconnecting FireFly from a PC



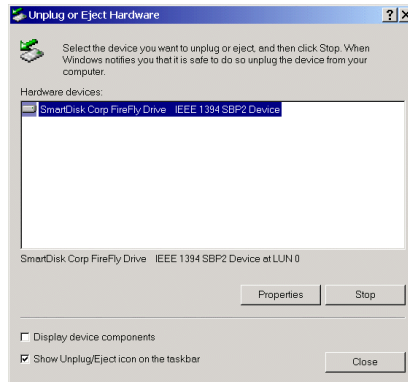
Warning

Do not unplug FireFly when data is being transferred between FireFly and the computer (when the yellow light is flashing). If you unplug FireFly while accessing or copying files, data may be lost or FireFly may be damaged. To disconnect FireFly, complete the following steps.

- 1 Click on the **Unplug or Eject** icon -  - in the Windows System Tray.
- 2 Select **Unplug or eject hardware** from the pop-up menu. A Windows dialog opens.



- 3 Select the FireFly drive from the list in the Windows dialog and select **Stop**.



- 4 Wait until the yellow light on FireFly stops flashing.
- 5 You can now safely unplug FireFly. Gently pull out the FireWire connector from the computer.



Tip

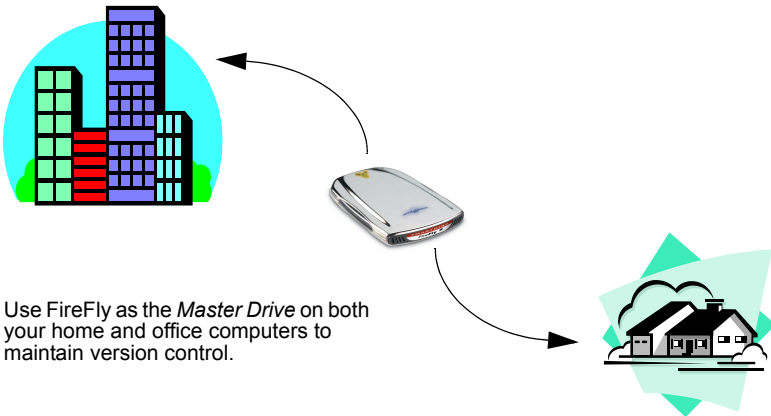
You can also safely unplug FireFly by shutting down the computer. Remember to ensure the lights are off before unplugging.

This chapter describes some of the many uses for FireFly including:

- Using FireFly between your home and office computers.
- Using several FireFly drives as project repositories.
- Using FireFly as an emergency backup when travelling.
- Using FireFly to transfer large files from one computer to another.
- Using FireFly to store and play back your multimedia files including MP3s, videos, and pictures.
- Using FireFly as a Macintosh boot disk so you can have a familiar environment using any Macintosh computer.

Between your Home and Office Computers

Your FireFly is an ideal solution for working between your office and home computer. Take the FireFly with you when you leave and all your work files and applications are there for you when you need them. You don't have to carry your laptop to and from work anymore.



Version Control

Version control of files has always been a major problem for home and office workers. To solve this problem, use your FireFly as the *Master Drive*.

To ensure you are working on the master file, always edit and save the files directly to FireFly - the *Master Drive*. Do this whether you are at home or at work. This means you do not have to wonder if you are working on the right file or database; the content on FireFly is always the latest version.

Backup FireFly Frequently

Since this drive is the *Master Drive*, ensure your files and data can be recovered by making frequent backups. Copy essential files and data to removable media (such as CDs) or the hard drive on your home and work computer. Although not common, electrostatic discharge and shock (for example, dropping it on the floor) can damage your FireFly.

**Tip**

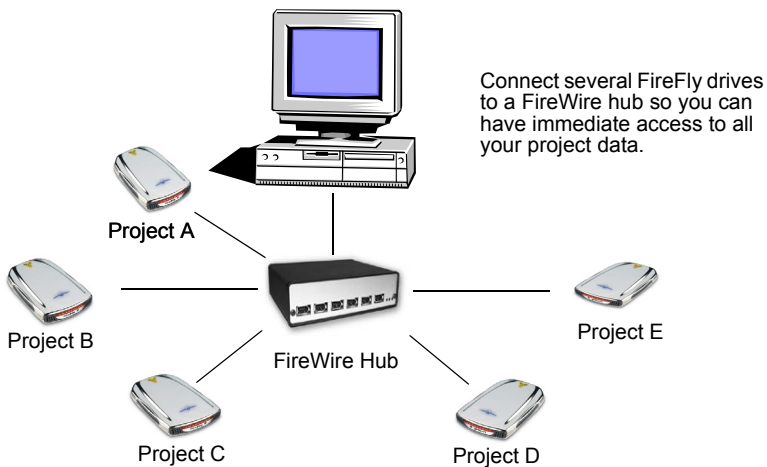
Macintosh users can automate this process using the *CopyAgent* application found on the FireFly Software Installation CD.

Disconnecting

Remember to properly unplug FireFly from the computer. For more information, see Chapter 3.

Project Repositories

You can use multiple FireFlies to store files and data for individual projects. This is useful if most of your work is project oriented where each project generates a large set of files and data. Each project can have a designated FireFly to be used as the *Project Drive*.



Editing Files and Updating Data

Use the FireFly as the primary repository for all the files and data associated with the project. This drive then becomes the *Project Drive* for the project. When you need to work on the project, connect the *Project Drive* and ensure all changes to files and data are saved to this drive.

You can still work on local drives or other high performance drives; just remember to transfer all finished files to the *Project Drive*.

Visiting Clients

If you frequently travel to see clients, you can bring along all the relevant project files and data by bringing the *Project Drive*. This means you do not have to:

- Carry a laptop everywhere you go.
- Copy files and data to your client's computer (using up valuable hard disk space and running the risk of running out of disk space).
- Install licensed applications onto your client's computer.

All you have to do is connect the *Project Drive* to your client's computer. For example, you can show a Power Point presentation on a client's computer by connecting the FireFly directly to their computer.



In most cases when FireFly System Requirements are met, FireFly works without software installation as described in Chapter 2. However, software installation is strongly recommended. Software installation is required for Macintosh computers with OS 8.6-9.1 that do not have FireWire version 2.8.3 or greater. Software installation is also required for Windows 98SE users as described on page 11.

Connecting Multiple Drives

Use a FireWire hub to connect several FireFly drives (*Project Drives*) to your computer simultaneously.

Backup Frequently

Periodically back up the contents of your FireFly to your desktop computer hard disk. Or, backup to a CD-R or CD-RW using the SmartDisk FireWire Portable CD-R/W.



Macintosh users can automate this process using the *CopyAgent* application found on the FireFly Software Installation CD.

Archive

Once a project is completed, archive the contents of the associated *Project Drive* to a CD or other storage device. Delete the files from the *Project Drive* so it can be used for a new project.

Emergency Backup when Traveling

Use your FireFly to back up important files when you are travelling. FireFly can then be used to recover the file if your laptop malfunctions.

Use FireFly as an emergency backup device when you are on the road.



Copy Files and Data Frequently to FireFly

If you are generating new files and data while traveling, frequently create backups to FireFly. You can copy entire folders from your laptop to FireFly.



Tip

Macintosh users can automate this process using the *CopyAgent* application found on the FireFly Software Installation CD.

Recovery

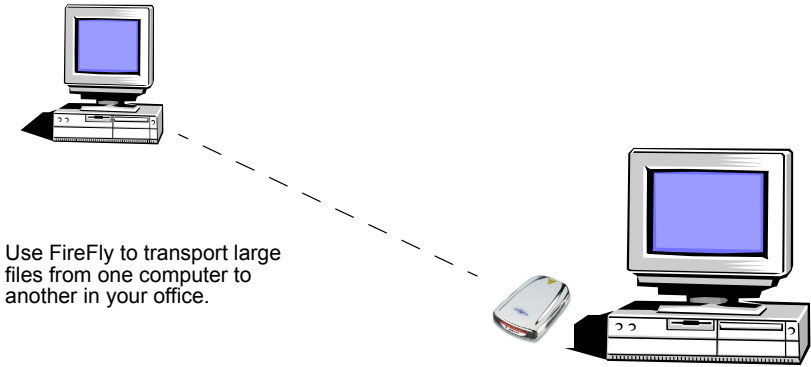
If your laptop malfunctions, your file and data is safe; everything is stored on FireFly. If you are on the road, all you need is access to a computer that has a FireWire connection to retrieve your files.

Archive

When you get back to the office, copy the files from the FireFly to a CD-R or CD-RW using SmartDisk's FireWire Portable CD-R/W. The CD then becomes the long term archive.

Transporting Large Files

Use FireFly to transport large files (such as graphics) to other computers in your office. This is useful if you cannot attach the file to an email or network connections are slow or not available.

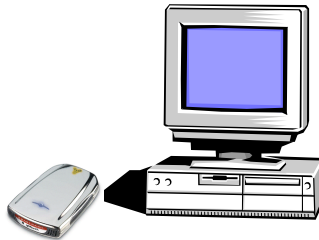


Use FireFly to transport large files from one computer to another in your office.

Storage and Playback of MP3, Video, and Photos

You can use your FireFly to store and play back your:

- Collection of MP3s.
- Video files including AVI, MPEG, and QuickTime.
- Digital photographs including JPEG, BMP, and GIF.
- Other non-essential or infrequently accessed files.



FireFly can be used to store and play back all your MP3 files or other multimedia when it is hooked up to a computer that supports FireWire.

To save disk space on your computer's internal hard drive, keep the aforementioned types of files on your FireFly. To play back your MP3s and videos, or to show your photos, connect FireFly to any computer that has FireWire. This means you don't have to carry several CDs to an event; all you need to bring is FireFly.

Create a Boot Drive for Macintosh Computers



Note

The following is not supported for Mac OS X 10.0 -10.1.

You can boot a Macintosh computer directly from the FireFly rather than the internal disk drive. This means you can open your applications and files using any Macintosh computer. You can always work in a familiar environment wherever you go; all your settings and preferences are stored on FireFly.

To create the boot drive, copy the System Folder to the FireFly.

To boot your Macintosh computer with FireFly:

- 1 Connect the FireFly as described on page 13.
- 2 Start up the Macintosh computer while holding the **Option** key.
- 3 Select the FireFly and press **OK**.

General		
Bus interface:	FireWire (1394 Compliant)	
System requirements:	For Mac OS Users	<ul style="list-style-type: none"> - Any Macintosh with built-in FireWire port or a Power Macintosh G3 with a powered PCI 6-pin FireWire adapter. - Mac OS 8.6 to 9.x, Mac OS X 10.1 or higher
	For PC Users	<ul style="list-style-type: none"> - A Windows-compatible PC with built-in 6-pin FireWire port or a powered PCI 6-pin FireWire adapter. - Windows 98SE/Me/2000/XP - A CD-ROM drive to install the software.
Package includes:	FireFly Hard Drive	
	FireWire (IEEE 1394) 6-Pin Cable	
	Software Installation CD which includes all the required drivers, user documentation, and 3rd party software	
	FireFly Carry Case	
	QuickStart Card	

Performance:	Capacity	5 Gigabytes
	Rotational Speed	4200 RPM
	Latency (Average)	7.1ms
	Seek Time (Average)	15ms
	Data Transfer Rate (Peak)	20MB/sec
	Data Transfer Rate (Average)	12MB/sec

Physical Specifications

Dimensions:	2.44 in (W) x 4.05 in (D) x .51 in (H)
	62.22mm (W) x 102.86mm (D) x 12.85mm (H)
Weight:	110g (3.88 oz)

Operating Environment

Temperature:	(Operating)	10°C - 40°C (50°F - 104°F)
	(Non-operating)	-20°C - 65°C (-4°F - 149°F)
Relative humidity:	(Operating)	20% - 80% RH (Non-condensing)
	(Non-operating)	9% - 90% RH (Non-condensing)
Shock:	(Operating)	200G 2ms
	(Non-operating)	1000G 2ms
Vibration:	(Operating)	1.0G (5 - 400Hz)
	(Non-operating)	5.0G (5 - 400Hz)
MTF:	More than 300,000 hours (20,000 Operating hours)	

Power requirements:	FireWire Bus Power	
	Power Requirement:	+8 to 33 VDC input
	Operating (Average)	1.5 Watts
	Sleep	0.5 Watts

Check out these SmartDisk™ personal productivity products to simplify your digital lifestyle.



SmartDisk MVP™
Create picture slideshows with music, then use a DVD player to watch them on TV!



**Floppy Drive
Titanium Edition**
USB connectivity for plug-n-play simplicity



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