KANGURU *Solutions* ™

"Technology on the move!"

Kanguru eSATA/USB2.0 Hard Drive
User Manual

Notices and Information

Please be aware of the following points before using your Kanguru DVDRW Drive

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To obtain service or technical support for your system, please contact Kanguru Solutions Technical Support Department at 508-376-4245, or visit www.Kanguru.com for web support.

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FCC Compliance Statements

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, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to 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 Distance between the equipment and receiver.
 • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 • Consult the dealer or an experienced radio/TV technician for help.

Table of Contents

1.   Introduction

Thank you for purchasing the Kanguru external hard drive from Kanguru Solutions!

The Kanguru external hard drive features the latest in external hard drive technology with cutting edge eSATA connectivity for ultra-fast throughput. The Kanguru external hard drive can take on your most demanding data transfer tasks with ease. Video streaming, photo editing and production, large-scale database access, it can do it all! In addition to an eSATA connection, the drive is also equipped with a high speed USB2.0 connection for quick and easy connectivity to virtually any PC or Mac.

Note: In order to reach USB 2.0 speed, you must have a computer or host adapter card that supports USB 2.0. In order to use the eSATA connection, you must have a computer or host adapter card that supports eSATA connectivity.

Package Contents

- Kanguru External Hard Drive
- USB 2.0 Cable
- eSATA Cable
- Vertical Stand
- Power Adapter
- Quick Start Guide
- User Registration Form

If any of the above items are missing, please contact the Kanguru Solutions Technical Support Department at: (508) 376-4245 and replacement parts will be shipped ASAP.

1.1   System Requirements

Hardware:
- √   Notebook or desktop computer with a USB 1.0 or USB2.0 port for USB connection
- √   256MB RAM
- √   Pentium II processor or equivalent

Operating Systems:
- √   Windows XP
- √   Windows Vista
- √   Windows 7
- √   Mac OS 8.6 and above (USB)
- √   Mac OS X 10.3 or later (eSATA)

1.2   Parts and Functions

Front

Power/Activity Indicator

Housing

Vertical Stand

Back

eSATA port   USB port   Power port   On/Off button
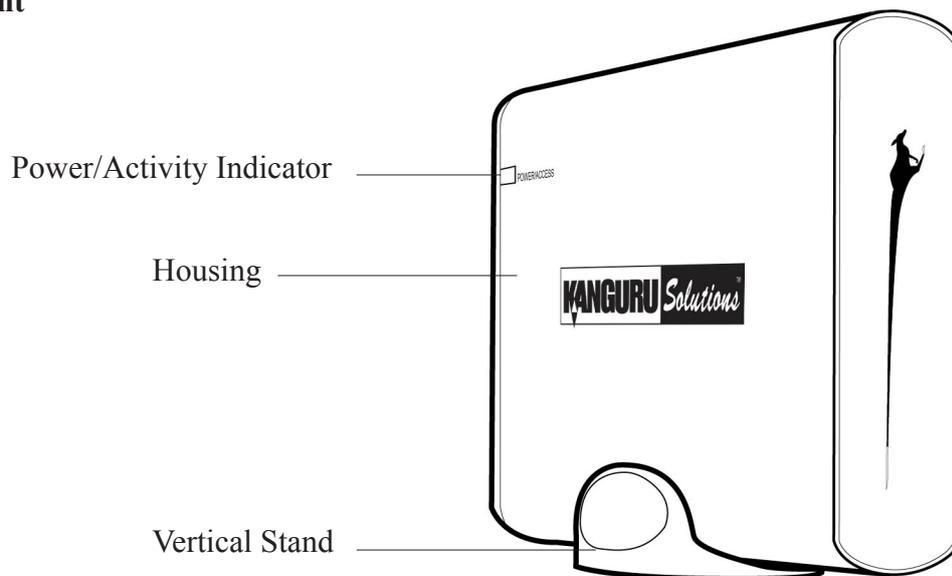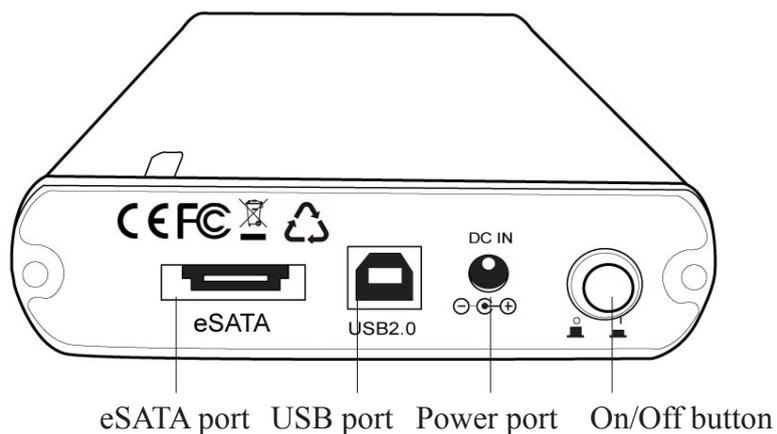
1.3   Technical Specifications

Model Number	
Interface	USB 2.0 480Mb/s (Backwards compatible with USB1.1) eSATA 3Gb/s
OS Compatibility	USB 2.0 • Windows XP • Windows Vista • Windows 7 • Mac OS 8.6 or later SATA • Windows XP • Windows Vista • Windows 7 • Mac OS X 10.3 or later
HDD Interface	SATAII
Rotational Speed	Variable (5400 - 7200RPM)
Access Time	8.5 - 11ms (Internal)
Reliability	750,000 Hrs
Weight	2.15lbs
Dimensions	7" x 4" x 1.25"

2.   General Operation

Please carefully read the following instructions and make sure you understand them completely. For ease of use, please print this manual for reference.

To setup your Kanguru external hard drive:

1. Connect the power adapter from your external hard drive to an electrical outlet.

2. Push the On/Off button to power on the hard drive.

3. Connect the hard drive to your computer using either the USB cable or the eSATA cable provided.

There are two ways to connect your Kanguru hard drive: through eSATA as an external SATA device or through USB as a removable USB device. Both connection methods are described in the following sections.

2.1   Use as a USB Device

Please note that in order to reach USB2.0 speeds, you must have a computer or host adapter card that supports USB2.0. If your system only has USB1.1, the hard drive will operate at USB1.1 speeds.

2.1.1   Use with Windows XP / Vista / 7

The Kanguru external hard drive does not require any driver files for use with Windows XP, Windows Vista or Windows 7 operating systems. These operating systems already have built-in drivers that support USB connection with the Kanguru hard drive. Simply connect your Kanguru hard drive to your PC and turn it on. Windows will automatically detect the new hardware and install the appropriate driver. When the installation has completed successfully, you will find a new hard drive displayed under My Computer.

Turn on the power to your drive and you will see a new hard disk drive under My Computer.

To properly disconnect the drive from your computer, click on the Safely Remove Hardware icon located in the taskbar. This will allow you to select any removable devices that you have connected to your computer. Select the drive that you want to remove and Windows will alert you when it is safe to remove the device.
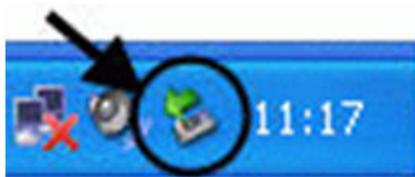
Windows XP   **Windows Vista / 7**
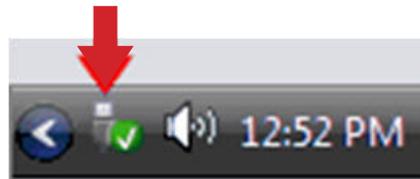
WARNING! Do not unplug the Kanguru hard drive from the USB port of your computer or hub while copying files to or from the device or while files or applications stored on the Kanguru hard drive are in use. DOING SO MAY RESULT IN LOSS OF DATA.

2.1.2   Use with Macintosh OS

Mac OS 8.6 and later have a built-in driver to support the Kanguru hard drive. Simply plug in the Kanguru hard drive to your Mac and the operating system will automatically install the necessary driver. Once the driver has been installed a external storage icon will appear on your desktop.

To safely remove the drive from the system, drag the external storage icon from your desktop to the trash bin. This will safely remove the drive from your system. Once the hard drive has been removed you can safely disconnect your Kanguru hard drive. Your system may freeze up or give you an error message if you remove the device without properly stopping it first.

WARNING! Do not unplug the Kanguru hard drive from the USB port of your computer or hub while copying files to or from the device or while files or applications stored on the Kanguru hard drive are in use. DOING SO MAY RESULT IN LOSS OF DATA.

2.2   Use as an eSATA Device

Please note that in order to utilize the eSATA connection, you must have a computer or host adapter card that supports eSATA connection.

2.2.1   About Hot Swapping

Hot Swapping allows you to add and remove hardware to your computer while the computer is powered on and running. The Kanguru hard drive is designed to be eSATA hot swap compatible, but not all computers support hot swap.

There are three components that factor in to whether a device can be hot swapped:

1. The device - The device in this case is the Kanguru hard drive. The Kanguru hard drive was designed to support hot swapping.

2. The SATA controller - The SATA controller is either integrated into your computer's motherboard or an add on SATA controller card, depending on where the eSATA port is connected to. If the eSATA port is connected to the motherboard then the motherboard's south bridge must support hot swap. If the eSATA port is connected to a host controller (i.e. PCI SATA host controller) then the host controller's chip needs to support hot swap.

3. The driver - The driver is the software that controls how your hardware operates. If the eSATA port is connected to the motherboard, then your computer will most likely be using the native Windows driver. SATA controller cards come with their own driver software typically.

Depending on these three components, your Kanguru hard drive will behave in one of 3 ways when attached via eSATA:

•   It will automatically appear under My Computer when you plug it in. In order to have the hard drive to appear automatically, your controller must support hot swap and the driver must allow you to hot swap on the fly. Whether you remove the device using the Safely Remove Hardware tool or through the Device Manager depends on your setup.

•   It will not appear when you plug it in until you run the "Scan for new hardware changes" from the Device Manager or HotSwap! application. If your controller supports hot swapping, but the driver does not allow you to hot swap on the fly, you will have to run the Scan for hardware changes from the Device Manager before your computer can recognize that the hard drive is connected. You will have to uninstall the device from the Device Manager in order to safely unmount it.

•   It will have to be connected while your system boots up. If your controller does not support hot swap you will need to have the hard drive connected to the computer while the system boots up in order for it to be seen. This is referred to as cold swapping. You can remove the device once the computer has been shut down or you can uninstall it from the Device Manager.

For more information on what type of hot swap support your computer has, please refer to your computer's instruction manual.

2.2.2   Connecting an eSATA Device

When you connect the Kanguru hard drive through eSATA, the drive will appear in the Hard Disk Drives section under My Computer if you are using Windows or as a drive icon on your desktop if you are using Mac OS.

Your system may not automatically recognize that an eSATA device has been connected. Although SATA was designed to be hot-swappable, not all systems support this feature. For more information, please refer to section 2.2 *Use as an eSATA Device* on p. 9.

If you do not see the device right away:
1. Right click on the **My Computer icon** on your desktop and then select **Manage** from the popup menu. The Computer Management window appears.
2. Under System Tools in the left window, select **Device Manager.**
3. In the right window, right click on **Disk drives**.
4. Select **Scan for hardware changes**.
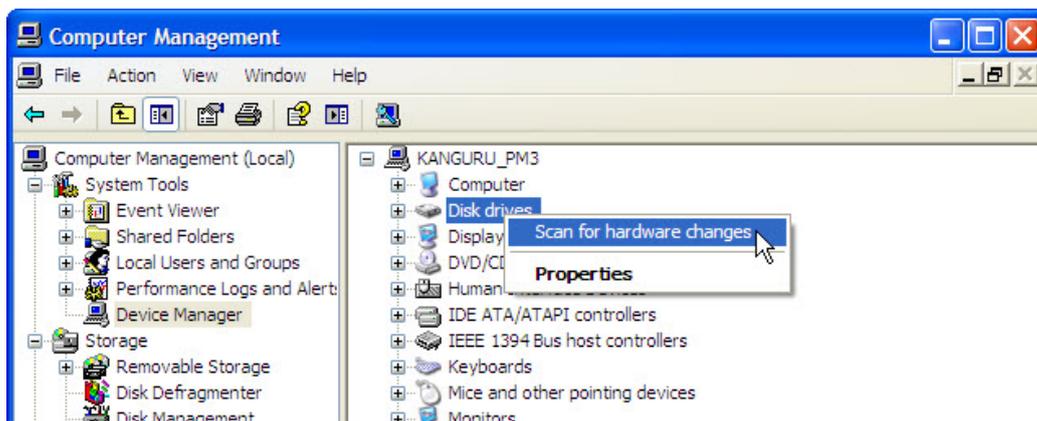
You should now be able to see your device in My Computer.

2.2.3   Removing an eSATA Device

Windows Users
Before attempting to remove a device connected through eSATA, make sure that no data is being transferred to or from the device. The easiest way to determine that no data is being transferred to or from the device is to check that the blue LED indicator is not blinking. Be sure to follow safe removal procedures to avoid loss of data.

To remove an eSATA connected hard drive:
1. Right click on the **My Computer icon** on your desktop and then select **Manage** from the popup menu. The Computer Management window appears.
2. Under System Tools in the left window, select **Device Manager.**
3. In the right window, select **Disk drives** to view all connected disk drives.
4. Right click on the hard drive and then click on **Uninstall** from the popup menu to remove the device.
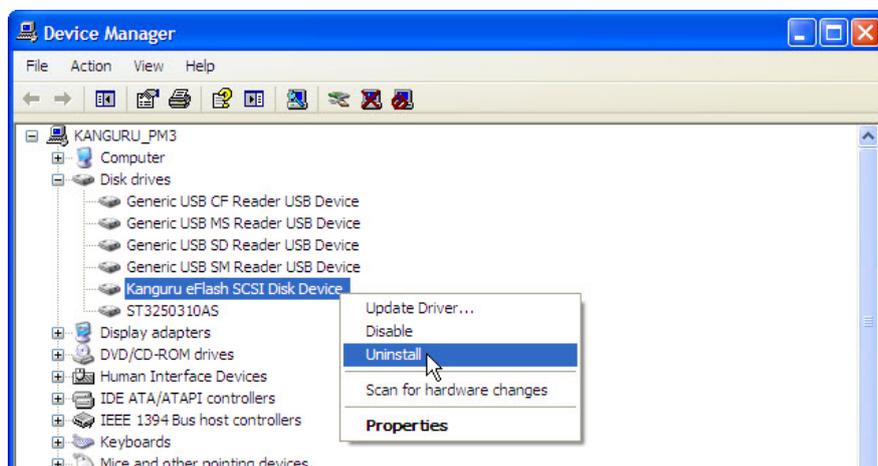
If you receive an error message stating that the device cannot be removed yet, make sure that any programs that may still be accessing the device are closed and then try to remove it again.

Once the device has been successfully removed, you can safely disconnect the drive.

Mac Users
To safely remove the device, drag the eFlash drive icon on the desktop into the trash can.

Once the device has been successfully removed, you can safely disconnect the eFlash.

3. Maintenance and Care

- This is an electronic device. It requires careful handling and use.
- Keep the device free from dust and contaminants.
- Keep liquid and moisture away from the drive.
- Clean the exterior of the device by wiping with a soft, dry cloth. Do not use any harsh or abrasive cleaning agents as it could damage the surface of the device.
- Do not attempt to open or repair the device yourself. Opening the device or attempting unauthorized repairs will void your warranty. If you need to have the device serviced, contact Kanguru Solutions Tech Support at 508-376-4245.

4. WARRANTY

Kanguru Solutions guarantees that every Kanguru external hard drive will be free from defects in workmanship and materials for 1-year from the date of purchase. The Hard Disk Drive installed is also covered for 1 year from the date of purchase. This warranty does not apply if, in the judgment of Kanguru Solutions, the product fails due to damage from handling, accident, abuse, misuse, or if it has been used in a manner not conforming to the product's instructions, has been modified in anyway, or the warranty labels have been removed. If the product proves defective during this warranty period, call Kanguru Solutions Technical Support in order to obtain a RMA required for service. When returning a product, mark the RMA number clearly on the outside of the package, and include a copy of your original proof of purchase.

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5. TECH SUPPORT

If you experience any problems installing your Kanguru product or have any technical questions regarding any of our products, please call our tech support department. Our tech support is free and available Monday thru Friday, 9am to 5pm EST.

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Call 1-508-376-4245
Or visit our website at www.Kanguru.com

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