TowerRAID - TR4U User Manual





Your ONE-STOP Storage Solution Provider www.sansdigital.com

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Chapter I - WELCOME

I.I INTRODUCTION

Thank you for choosing SANS DIGITAL TR4U storage appliance. Using a revolutionary 4 bay design, it creates a versatile USB storage box that will fulfill you never-ending storage need.



I.2 PRECAUTION

Please read the precautions carefully before you using SANS DIGITAL TR4U storage appliance. Ensure that you use the product correctly according to the procedure described in this guide.

The following safety precautions are intended to remind you to operate the product safely and correctly. Please read and ensure that you understand them before you proceed to the other sections of this guide.

- Do not attempt to disassemble or alter any part of the product that is not describe in this guide.
- Do not allow the product to come into contact with water or other liquids. In the event that water or other liquids enter the interior, immediately unplug the product from the computer. Continued use of the product may result in fire or electrical shock. Please consult your product distributor or the closest support center.
- Do not handle the product near a heat source or expose them to direct flame or heat.
- Never place the product in close to equipment generating storage electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt data.
- Windows 3.x/ 95/ 98SE/ ME/ NT is not supported
- Please be noted the following product is not supported:
 - ✓ Toshiba DynaBook, Satellite series (All K6 CPU models).
 - ✓ IBM Aptiva E series (All K6 CPU models).
 - ✓ Sotec E-note M260 series.
 - ✓ All AMD K6 system.
 - ✓ PC with sis7000/ 7001/ 7002 PCI to USB host controller.

I.3 FEATURES

- Four 3.5-inch SATA hard disk drives to USB interface.
- Selectable USB mode: Hard Drives can combine (Spanning mode) or individually access (JBOD).
- Selectable Power mode: Auto Power Mode (Automatic On/Off with the computer) or Normal Power Mode (manual On/Off)
- Supports Plug & Play automatic system configuration.
- Supports USB high-speed (480 Mbps), and backward-compatibilies to full-speed (12 Mbps) data transfer modes.
- Supports Plug & Play for easy installation.
- Compact Enclosure with Dust-Free Cover.
- 150 watts power supply.

I.4 SYSTEM REQUIREMENTS

Please make sure your system meet the following requirements:

- IBM PC/AT Compatible, iMac, Mac mini, Mac Pro, Macbook, Macbook Pro, G5, Power Macintosh, eMac, iMac, PowerBook G4, iBook G4.
- Windows 2000/ XP/ Vista/ Server 2003, Mac OS X 10.3 or higher operation system with latest service pack installed.
- An available USB port.

1.5 PRODUCT CONTENTS

The following parts are content.

- SANS DIGITAL TR4U x I
- USB2.0 Cable x I
- AC Cable x I
- Tool-less Screw x 8
- Setup and Installation Driver
- User Manual & Utilities CD x I



Chapter 2 - INSTALLATION

2.1 BEFORE INSTALLING

Before plug-in the power cable, switch the VAC to the correct position (For example, 115 for USA/JAPAN, 230 for UK) before installing. Fail to do so will result in malfunctions or damage.

2.2 INSTALLING HARD DISK DRIVE

 $\label{eq:Please refer} Please \ refer \ below \ procedure \ to \ complete \ the \ HDD \ installation:$

I. Remove the Tool-less screws on the back panel.



2. Remove the upper chassis cover backwards and lifts it upwards.



3. Open the front door and install the HDDs in order from the top to the bottom. Please refer to the diagram.



4. Fasten the tool-less screws to secure the hard drive.



5. Close the front door and the chassis cover, fasten the tool-less screws on the back panel.



2.3 UNINSTALLING HARD DISK DRIVE

- Release the tool-less screw
- Remove the Hard Drive from the SATA connector by use the tool-less screw



2.4 **POWER ON / OFF**

• Power ON: Push the power switch located in the front to switch on the power.



• Power OFF: Push and hold power switch more than 3 secends to switch off the power.



Chapter 3 - MODE SETTING

3.1 INTRODUCTION

The SANS DIGITAL TR4U storage appliance is an easy-to-use storage that provides variety of modes; you can simplely set up the mode by hardware DIP switch on the back panel. The mode shows as seen below.

3.2 DISK DRIVE MODE

Please read the notics carefully before you change disk drive mode. The following notices are intended to remind you to operate the product correctly. Please read and ensure that you understand them before you proceed to change disk drive mode.

- Data will be lost, when the mode change.
- Turn off the power of storage device before change mode.
- 2TB capacity is the limitation for each disk volume.

Switch the DIP I to setup the disk drive mode on the back panel. Please refer to the diagrams.

- **Standard Drive Mode:** It is a JBOD mode, where the unit will access each hard drive individually. The number of Hard Drive available to computer equal to the number of hard drive you installed.
- **Combine Drive Mode:** It is a Spanning mode, where the unit will combine all of the hard drives installed and access it like one large hard drive. There is only one hard drive show on the computer.





3.3 **POWER MODE**

Switch the DIP 2 on the back panel to set up the NORMAL POWER MODE or AUTO POWER MODE; In NORMAL POWER MODE, SANS DIGITAL TR4U operates in manual on and off. Press once on the power button, power will turn on. Hold power button for more than 3 seconds, power will turn off.

In AUTO POWER MODE operating, SANS DIGITAL TR4U will automatically power on when PC system is on, and power off when PC system is off.



3.4 UNPLUG PROCEDURE

I. Right click on the "Safely Remove Hardware" icon



2. Click on the "Safely Remove Hardware".



3. Select "USB Mass Storage Device", click on on "Stop".



4. Select "Century EX35SW4_SB4-A USB Device", click "OK".



5. Click on "Close" to finish.

| comp | iows notines y puter. iooo: | you that it is s | ate to do s | o unplug the | device | e from your |
|-------------|-----------------------------------|------------------|-------------|--------------|--------|-------------|
| aluwale uev | ices. | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | Properties | | Stop |



WARNING: To assure no data will be lost, always follow the unplug procedure. Fail to do so will result in data lost.



Chapter 4 - ALLOCATING PARTITION

4.1 ALLOCATING PARTITION ON WINDOWS 2000

Before creating any partitions, disk drive mode must be selected using the DIP switch on the back panel. Turn on the computer and open the Control Panel window (located at: Start > Settings > Control Panel).

I. Double-click on Administrative Tools.



2. Double-click on Computer Management.

| Administrative Tools | | | | | | 1 | - 0 |
|----------------------------------------------------------------------------------------------|-----------------------|------------------------|---------------|--------------|----------------|-------------|-------|
| File Edit View Favorites Tools | Help | | | | | | - |
| 🗢 Back 🔹 🔿 👻 🔂 🥘 Search | Folders | 3 2 2 | X n I | | | | |
| ddress 🗃 Administrative Tools | | | | | | • | (à Go |
| | Component Services | Computer Management | Data Sources | Event Viewer | Local Security | Performance | |
| Computer Management Shortcut | Services | Telnet Server | (0000) | | 1 Oiley | | |
| Manages disks and provides access to other tools to manage local and remote computers. | | Administration | | | | | |
| Modified: 10/27/2005 3:44 PM Size: 1.42 KB | | | | | | | |
| Attributes: (normal) | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| anages disks and provides access to oth | ner tools to m | anage local and i | emote compute | rs. 1.42 K | з 🛄 Му | Computer | |

- 3. Select **Disk Management** under **Storage** to view the disk drives.
- 4. Right-click on each Unallocated partition and select Create Partition from the pop-up menu.

| | | | | | | | _8> |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| 12 12 11 1 | 3 | | | | | | |
| Volume | Layout | Type | File System | Status | Capacity | Free Space | % Free |
| - (C:) (D:) (E:) | Partition Partition Partition | Basic Basic Basic | NTFS | Healthy (System) Healthy Healthy | 4.40 GB 14.68 GB 0 MB | 2.79 GB 2.81 GB 0 MB | 63 % 19 % 100 % |
| • | | | | | | | 2 |
| GPDisk 0 Basic 19.00 GB Online | (C:) 4.40 GB NTPS Healthy (System) | , | (D:) 14.68 G Healthy | 8 NTFS | | | |
| GPDisk 2 Basic 306.76 GB Online | 306.76 GB Unallocated | Create Partition | | | | | |
| CDRom (E:) | | Properties | - | | | | |
| | (2) (2) (3) (4) (1) (1) (4) (2) (1) (4) (2) (1) (4) (2) (1) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (4) (2) (2) (5) (2) (2) (5) (2) (2) | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | C2 E3 Edit Volume Layout Type (C:) Partition Basic (D:) (C:) Partition (D:) Partition Basic (D:) (D:) Partition (D:) (D:) Partition (D:) (D:) Partition (D:) (D:) Partition (D:) (D:) (D:) (D:) (D:) Partition (D:) (D:) (D:) (D:) (D:) Partition (D:) (D:) (D:) (D:) (D:) (D:) (D:) (D:) (D:) | C2 E3 E4 Volume Layoot Type File System (C:) Partition Basic NTFS (D:) Partition Basic NTFS (D:) Partition Basic NTFS Basic 1 Objects 2 Distribution (D:) Col Da NIPS Index NIPS Index NIPS (D:) Col Da NIPS Index NIPS Index NIPS (D:) Col Da NIPS Index NIPS Index NIPS (D:) Objects 2 Sofe, 76 GB Creats Partition (D:) Display Lablocated Creats Partition Index NIPS (D:) Display Lablocated Properties Index NIPS (D:) Help Only Only Index NIPS | Color (C) Color (C) | C2 E3 E4 Volume Layout Type File System Status Capacity Volume Partition Boaic NTFS Healthy (System) 4.40 GB V(1) Partition Boaic NTFS Healthy 1.48 GB V(1) Partition Boaic NTFS Healthy 0.48 GB Boaic 10.00 GB | C: Partition Basic NTF5 Healthy (System) And GB 2.79 GB (C.) Partition Basic NTF5 Healthy (System) 14.68 GB 2.21 GB (C.) Partition Basic NTF5 Healthy (System) 14.68 GB 2.21 GB (C.) Partition Basic NTF5 Healthy (Dystem) 14.68 GB 2.21 GB (C.) Partition Basic NTF5 Healthy (Dystem) 0.96 4.1 Contine (C.) Image: Contine 0.96 0.96 (Social Objects 2 Basic (C.) Thealthy (System) 14.60 GB MIF5 (Data Contine Create Partition Properties 19.00 GB MIF5 (Data Contine Create Partition Properties 19.00 GB MIF5 (Data Contine Create Partition Properties 19.00 GB MIF5 |

5. Click Next to create a partition on a basic disk.



6. Select the partition type you want to create, than click **Next**.

| Select the ty | pe of partition you want to create: | |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Prima | y partition | |
| C Exter | ded partition | |
| C Logic | al drive | |
| Descriptio | n | |
| A primary Windows You can three prin | partition is a volume you create using free 2000 and other operating systems can sta xeate up to four primary partitions on a ba ary partitions and an extended partition. | space on a basic disk. at from a primary partition. sic disk, or you can make |

7. Specify the partition size you want to create, than click Next.

| pecify Partition Size How big do you want the partit | on to be? | and a |
|---------------------------------------------------------|-------------------------------------|-------|
| Choose a partition size that is s | naller than the maximum disk space. | |
| Maximum disk space: | 314123 MB | |
| Minimum disk space: | 7 MB | |
| Amount of disk space to use: | 314128 | мв |
| | | |
| | | |
| | | |
| | | |

8. Assign the drive letter or path you want to create, click Next.

| | | | | | 8 |
|-----|-----------------------|----------------------|-------------------|----------|---|
| ΦA | ssign a drive letter: | F: 💌 | | | |
| OM | ount this volume at | an empty folder th | at supports drive | e paths: | |
| | | | Brow | se | |
| O D | o not assign a drive | letter or drive path | n | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

9. Click Format this partition with the following settings and Perform a Quick Format, setup the File system to use, Allocation unit size, Volume label, than click Next.

| Format Pa You ca | artition an customize the formattin | g of the partition. | | 1000 |
|---------------------|------------------------------------------------------------|------------------------|------------------------|----------|
| Specify | y whether you want to form | nat this partition. | | |
| c | Do not format this partition | 1 | | |
| ۲ | Format this partition with t | he following settings: | | |
| | Formatting File system to use: Allocation unit size: | NTFS | - | |
| | Volume label: | DISK 1 | | |
| | Perform a Quick Fo | rmat 🗖 Enabl | e file and folder comp | pression |
| | | | | |
| | | | | |
| | | | | |

10. When the Create Partition Wizard has completed, click Finish.



11. Restart your computer after completed the steps ablove.

The status of the created partition in the Disk Management window will change to "**Formatting**". The percentage complete will be displayed. Depending upon the size of the partition, the format process may take several minutes. When

completed, the status will change to **"Healthy"** and the name and drive letter will be updated. Once the disk reports Healthy, it appears to the computer and ready to use.

| ee | Volume | Layout | Туре | File System | Status | Capacity | Free Space | % Free |
|---------------------------------|-------------------|------------------|-------|-------------|------------------|-----------|------------|--------|
| Computer Management (Local) | - 🖃 (C:) | Partition | Basic | NTFS | Healthy (System) | 4.40 GB | 2.79 GB | 63 % |
| 🐝 System Tools | 🗇 (D:) | Partition | Basic | NTES | Healthy | 14.68 GB | 2.81 GB | 19 % |
| 😟 🗑 Event Viewer | 😂 (E:) | Partition | Basic | | Healthy | 0 MB | 0 MB | 100 % |
| 🗄 🖼 System Information | DISK 1(F:) | Partition | Basic | NTFS | Healthy | 306.76 GB | 306.69 GB | 99 % |
| 🗄 🎆 Performance Logs and Alerts | | | | | | | | |
| E Shared Folders | | | | | | | | |
| Device Manager | 4 | | | | | | | |
| E Storage | | | | | | | | |
| Disk Management | Disk 0 | a and a second | | | | | | |
| - Brisk Defragmenter | Basic 19.08 GB | (C:) | | (D:) | PATEC | | | |
| - Cogical Drives | Online | Healthy (System) | | Healthy | binin b | | | |
| 🗄 😭 Removable Storage | | - | | | | | | |
| Services and Applications | Disk 2 | | | | | | | |
| | 306.76 GB | 306.76 GB NTES | | | | | | |
| | Online | Healthy | | | | | | |
| | | 10 | | | | | | |
| | CDRom (E:) | | | | | | | |
| | Content | | | | | | | |
| | | | | | | | | |

Repeat the above procedure if there are any other partitions. Close the Data Management window by clicking on the small boxed "X" in the top right corner of the window. Click on the "My Computer" icon on the Desktop. The new drives will be display and properly named. The new disks are now available for use.

| 🖳 My Computer | | | | -DX |
|----------------------------------------|----------------|---------------|-------------|------------|
| File Edit View Favorites To | ols Help | | | 1 |
| 📙 🖶 Back 👻 🤿 👻 🔂 😪 Search | n 🖳 Folders | History | 管唱×□ | 0 |
| Address 🖳 My Computer | | | | ▼ 🔗 Go |
| | 3½ Floppy (A:) | system (C:) | backup (D:) | NA1014008A |
| My Computer | | | | (E:) |
| New Volume (F:) Local Disk | New Volume | Control Panel | @C:\Program | |
| Capacity: 1.36 TB | | | Files\Commo | |
| 🔲 Used: 108 MB | | | | |
| Free: 1.36 TB | | | | |
| | | | | |
| Free Space: 1.36 TB, Capacity: 1.36 TB | | | 🖳 Му Со | mputer // |

| le Edit View Favorites Tools | s Help | | | |
|-------------------------------------------------|-----------------------|-----------------------|------------|------------|
| Back 🔹 🌩 👻 🔂 😡 Search | Polders 🎯 🦉 🧏 | X 🛛 🖩 • | | |
| ldress 🖳 My Computer | | | | <u>କ</u> ୍ |
| | Name 🛆 | Туре | Total Size | Free Space |
| | 31/2 Floppy (A:) | 31⁄2-Inch Floppy Disk | | |
| | 🚍 Local Disk (C:) | Local Disk | 4.39 GB | 2.79 GB |
| My Computer | Local Disk (D:) | Local Disk | 14.6 GB | 2.80 GB |
| | 🛯 🗟 Compact Disc (E:) | Compact Disc | | |
| elect an item to view its description. | Disk 1(F:) | Local Disk | 306 GB | 306 GB |
| Displays the files and folders on your computer | Control Panel | System Folder | | |
| See also: | | | | |
| My Documents | | | | |
| My Network Places | | | | |
| Vetwork and Dial-up Connections | | | | |

4.2 ALLOCATING PARTITION ON WINDOWS XP AND SERVER 2003 (32/64BITS)

Before creating any partitions, disk drive mode must be selected using the DIP switch on the back panel. Turn on the computer and open the Control Panel window (located at: Start > Control Panel).

I. Double-click on Administrative Tools.



2. Double-click on Computer Management.



- 3. Select **Disk Management** under **Storage** to view the disk drives.
- 4. Right-click on each **Unallocated** partition and select **New Partition** from the pop-up menu.

| computer management | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|------------------|---------------------|-----------------|------------|--------|-----------------|-----------------------------------------|----------|
| File Action View Window He | elp | | | | | | | | | | ل_ |
| - 1 1 2 2 2 2 | ł | | | | | | | | | | |
| Computer Management (Local) | Volume | Layout | Туре | File System | Status | Capacity | Free Space | % Free | Fault Tolerance | Overhead | |
| 🕵 System Tools 🛛 🚽 | 🗐 (C:) | Partition | Basic | NTFS | Healthy (System) | 4.40 GB | 1.97 GB | 44 % | No | 0% | |
| Event Viewer Shared Folders Shared Folders Shared Folders Device Jesers and Groups Sorage Storage Removable Storage | (D:) | Partition | Basic | NTFS | Healthy | 14.68 GB | 2.81 GB | 19 % | No | 0% | |
| | Contraction Contra | ((;) | | | | (D:) | | | | | |
| Disk Derragmencer Disk Management Services and Applications | 19.08 GB Online | 4.40 GB NTF Healthy (Sy | FS /stem) | | | 14.68 Health | GB NTFS | | | | |
| | CDisk 1 Basic | <i>8.///////</i> // | ////2 | | | 1///// | | ////// | | /////////////////////////////////////// | 77777777 |
| | 153.38 GB Online | 153.38 GB Unallocated | | New Partitio | n | | | | | | |
| | | | | Properties | | | | | | | |
| | CD-ROM (E:) | | | Help | | | | | | | |
| | No Media | | 1 | | | | | | | | |
| | | Drimoru postiti | on 🔳 E | - vtended nartit | ion 🗖 Logical drive | | | | | | |

5. Click **Next** to create a partition on a basic disk.

| New Partition Wizard | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 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. |
| | < Back Next > Cancel |

6. Select the partition type you want to create, click **Next**.



7. Specify the partition size you want to create, click **Next**.

| Specify Partition Size Choose a partition size that is between the | e maximum and minimum sizes. |
|-----------------------------------------------------------------------|------------------------------|
| Maxium disk space in megabytes (MB): | 157057 |
| Minimum disk space in MB: | 8 |
| Partition size in MB: | 1137/0377 🗘 |
| | |

8. Assign the drive letter or path you want to create, click Next.

| Ssign Drive For easier | Letter or Path access, you can as | sign a drive letter | or drive path to you | ur partition. | |
|-----------------------------------|----------------------------------------------------------------------|-----------------------------------------------|----------------------|---------------|--|
| Assign 1 Mount i O Do not | he following drive l n the following emp assign a drive letter | etter: ity NTFS folder: r or drive path | F 💌 | | |
| | | | | | |

9. Click Format this partition with the following settings and Perform a quick format, select the File system, Allocation unit size, Volume label, and click Next.

| Format Partition To store data on this partition, yo | ou must format it first. | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|--------------|
| Choose whether you want to for | nat this partition, and i | f so, what settings you (| vant to use. |
| O Do not format this partition | | | |
| Format this partition with the second sec | ne following settings: | | |
| File system: | NTFS | ~ | |
| Allocation unit size: | Default | ~ | |
| Volume label: | DISK 1 | | |
| | | | |
| Perform a quick form | nat | | |
| Perform a quick form | nat er compression | | |

10. When the **New Partition Wizard** has completed, click **Finish**, and restart your computer.

| Completing the New Partition Wizard You have successfully completed the New Partition Wizard. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| You selected the following settings: Partition type: Primary partition Disk selected: Disk 1 Partition size: 157057 MB Drive letter or path. F: File system: NTFS Allocation unit size: Default Volume label: DISK 1 Duirck format: Yes To close this wizard, click Finish. |
| < Back Finish Cancel |

The status of the created partition in the Disk Management window will change to "**Formatting**". The percentage complete will be displayed. Depending upon the size of the partition, the format process may take several minutes. When completed, the status will change to "**Healthy**" and the name and drive letter will be updated. Once the disk reports Healthy, it appears to the computer and ready to use.

| 📙 Computer Management | | | | | | | | _ 8 × |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------|----------------------------------|-----------------------------|---------------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------|
| Action View | 2 0 2 5 | | | | | | | |
| Tree | Volume | Layout | Туре | File System | Status | Capacity | Free Space | % Free |
| Computer Management (Local) System Tools System Tools System Information System Information Shared Folders Shared Folders | (C:) (D:) (E:) DISK 1(F:) | Partition Partition Partition Partition | Basic Basic Basic Basic | NTFS NTFS NTFS | Healthy (System) Healthy Healthy Healthy | 4.40 GB 14.68 GB 0 MB 306.76 GB | 2.79 GB 2.81 GB 0 MB 306.69 GB | 63 % 19 % 100 % 99 % |
| Device Manager Social Users and Groups Storage Disk Management Disk Defragmenter Logical Drives Removable Storage | Disk 0 Basic 19.08 GB Online | (C:) 4.40 GB NTFS Healthy (System) | | (D:) 14.68 GI Healthy | 3 NTFS | | | <u> </u> |
| (2) 200 pervices and Applications | Basic 306.76 GB Online | DISK 1(F:) 306.76 GB NTFS Healthy | | | | | | |
| | CDRom (E:) Online | E Caludad David | | | | | | |
| | | | on polical Drive | | | | | |

Repeat the above procedure if there are any other partitions. Close the Data Management window by clicking on the small boxed "X" in the top right corner of the window. Click on the "My Computer" icon on the Desktop. The new drives will be display and properly named. The new disks are now available for use.



4.3 ALLOCATING PARTITION ON WINDOWS VISTA (32/64BITS)

Before creating any partitions, disk drive mode must first be created using the DIP switch on the rear panel. Once the sets have been created, allow the system to load Windows. Once Windows is running, open the **Computer Management** window.

I. Right-click on **Computer** and select **Manage** from the pop-up menu.



2. Select Disk Management under Storage to view the disk drives.

| • 🔿 🙍 🗊 👔 😭 😭 | 1 | | | |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------|---|
| Computer Management (Local) | Volume L | ayout Type File System Status | Actions | - |
| 🛚 🙀 System Tools | 📾 system (C:) S | imple Basic NTFS Healthy (System, Boot, Page File, Active, Crash Dump, Primary Partition) | Disk Management | |
| O Task Scheduler Event Viewer Shared Folders | backup (D:) S | imple Basic NTFS Healthy (Logical Drive) | More Actions | 0 |
| Reliability and Performance | < [| | | |
| Device Manager Storage Disk Management Services and Applications | Disk 0 Basic 74.53 GB Online | system (C:) 14.75 GB NTFS Healthy (System, Boot, Page F Healthy (Logical Drive) 9 MB Unall | | |
| | Basic 2048.00 GB Online | 2048.00 GB Unallocated | | |
| | CD-ROM 0 DVD (E:) No Media | | | |

3. Right-click on each **Unallocated** partition and select **New Simple Volume** from the pop-up menu.

| Le Computer Management | 100 | | and the second second | | _ _ X |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------|----------------------------------------------|
| | 8 | | | | |
| Computer Management (Local) | Volume Li system (C:) Si backup (D:) Si | ayout Type File System Status mple Basic NTFS Healt mple Basic NTFS Healt | : ny (System, Boot, Page File, Active, ny (Logical Drive) | Crash Dump, Primary Partition) | Actions Disk Management A More Actions |
| Reliability and Performance Pevice Manager Storage Disk Management Services and Applications | Disk 0 Basic 74.53 GB Online | m system (C.) 14.75 GB NTFS Healthy (System, Boot, Page F | backup (D:) 59.77 GB NTFS Healthy (Logical Drive) | 9 MB Unall | |
| | Disk 1 Basic 2048.00 GB Online | 2048.00 GB Unallocated | New Simple Volume New Spanned Volume | | |
| | DVD (E:) | | Properties Help | | |
| | Unallocated | Primary partition 📕 Extended partition | Free space 📕 Logical drive | | |

4. Click **Next** to create a simple volume.



5. Select the Simple volume size you want to create, click Next.

| Specify Volume Size Choose a volume size that is betwee | en the maximum and minimum sizes. |
|-------------------------------------------------------------------------------------|-----------------------------------|
| Maximum disk space in MB: Minimum disk space in MB: Simple volume size in MB: | 2097150 8 2097150 |
| | < Back Next > Cancel |

6. Assign the drive letter or path you want to create, click Next.

| Assign Drive Letter or Path For easier access, you can assign a drive | letter or drive path to your partition. | |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--|
| Assign the following drive letter: Mount in the following empty NTFS fole Do not assign a drive letter or drive pat | F ▼ der: Browse th | |
| | | |

7. Click Format this volume with the following settings and Perform a quick format, select the File system, Allocation unit size, Volume label, click Next.

| To store data on this partition, yo | u must format it first. | | |
|-------------------------------------|---------------------------|----------------------|--------------|
| Choose whether you want to fom | nat this volume, and if s | o, what settings you | want to use. |
| O Do not format this volume | | | |
| e Format this volume with the | e following settings: | | |
| File system: | NTFS | • | |
| Allocation unit size: | Default | • | |
| Volume label: | Combine | | |
| Perform a quick form | at | | |
| Enable file and folde | r compression | | |
| | | | |

8. When the **New Simple Volume Wizard** has completed, click **Finish**.

| Completing the New Simp Volume Wizard | ple |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| You have successfully completed the New Wizard. | Simple Volume |
| You selected the following settings: | |
| Volume type: Simple Volume Disk selected: Disk 1 Volume size: 2097150 MB Drive letter or path: F: File system: NTFS Allocation unit size: Default Volume label: Combine Ouick format: Yes | E |
| To close this wizard, click Finish. | |
| | |

The status of the created partition in the Disk Management window will change to "**Formatting**". The percentage complete will be displayed. Depending upon the size of the partition, the format process may take several minutes. When completed, the status will change to "**Healthy**" and the name and drive letter will be updated. Once the disk reports Healthy, it appears to the computer and ready to use.

| 🏰 Computer Management | | A REAL PROPERTY AND A REAL | _ _ X | | | |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|--|--|
| File Action View Help | | | | | | |
| 🗢 🔿 🖄 🖬 🛛 🖬 🖄 🗙 🛛 | e 🖻 🖉 | | | | | |
| Computer Management (Local) | Volume | Layout Type File Syste Status | Actions | | | |
| System Tools Tark Scheduler | system (C:) Simple Basic NTFS Healthy (System, Boot, Page File, Active, Crash Dump, Primary Partition) | | | | | |
| Event Viewer | ackup (D:) | ackup (D:) Simple Basic NTFS Healthy (Primary Partition) | | | | |
| Shared Folders | | | | | | |
| Eccal Users and Groups Reliability and Performance | ٠ | | | | | |
| Device Manager | | | | | | |
| Storage Dick Management | Basic | system (C:) backup (D:) | | | | |
| Disk Management Disk Management Services and Applications | 74.53 GB Online | 14.75 GB NTFS 9 MB Healthy (System, Boot, Page F Healthy (Logical Drive) | | | | |
| | Disk 1 | | | | | |
| | 2048.00 GB | sic combine (F:) 48.00 GB 2048.00 GB NTFS | | | | |
| | Online | (Healthy (Primary Partition) | | | | |
| | CD-ROM 0 DVD (E:) | | | | | |
| | No Media | | | | | |
| | Unallocated | Primary partition 📕 Extended partition 📕 Free space 📕 Logical drive | | | | |
| | | | | | | |

Repeat the above procedure if there are any other partitions. Close the Data Management window by clicking on the small boxed "X" in the top right corner of the window. Click on the "My Computer" icon on the Desktop. The new drives will be display and properly named. The new disks are now available for use.

| 🎍 Organize 👻 🚆 Views | 👻 📑 At | itoPlay 🗹 P | roperties 🛛 😰 S | ystem properties | 🔄 Uninstall or change a program | »» | 2 |
|----------------------|-----------|----------------------------------------------------------------------|------------------------|------------------|------------------------------------|----|---|
| Favorite Links | Name | Туре | Total Size | Free Space | | | |
| | | ystem (C:) 9.95 GB free of 1 combine (F:) 9.99 TB free of 1 | 4.7 GB | 30.3 GE | b (D:) B free of 59.7 GB | | |
| Folders | Devices w | ith Removable | Storage (2) /e (A:) | DVD RV | W Drive (E:) | | |

4.4 ALLOCATING PARTITION ON MACINTOSH OS X

I. Click **Go**, click on **Utilities**.



2. Double-click **Disk Utility**.

| 000 | | 💭 Utilities | | 0 |
|--------------|---------------------|----------------------------|-------------------------|------------|
| | | (| 2 | |
| Network | | (B) | ~ | 0 |
| MAC OSX 10.4 | | | | |
| <u>_</u> | Activity Monitor | AirPort Admin Utility | AirPort Setup Assistant | |
| | | | * | |
| Desktop | Audio MIDI Setup | Bluetooth File Exchange | ColorSync Utility | J |
| n fenixmac n | | | | |
| Applications | WORNIN Ny 7:36 f | | P | |
| Documents | Console | DigitalColor Meter | Directory Access | |
| Movies | (**) | 0.0 | | |
| 🎸 Music | E V | | | - U |
| Pictures | Disk Utility | Grab | Grapher |) 4 |
| | 1 of 24 se | lected, 26.24 GB available | | |

3. In the windows on the left, Select the newly added Storage

| \$7.3 GB IC35L060AVV2 MAC OSX 10.4 \$7.0 MB Pioneer DVD-R 75.8 MB Untitled 0 76.7 GB Century | First Aid Erase Partition To repair a disk or volume, select its icon in the l To repair disk permission problems on a disk or select its icon and click Repair Disk Permissions. Click the Verify buttons to test the disk or permis To repair your startup disk, start up from your M choose Utilities>Disk Utility | AID Restore |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| | (Verify Disk Permissions) | (Verify Disk) |

4. In the windows on the right, click **Partition** to go to partition window.

| 57.3 GB IC35L060AVV2 MAC OSX 10.4 87.0 MB Piopeer DVD-R | | | First Aid Er | ase Partiti | on RAID Restore |
|-----------------------------------------------------------------------------------------------|--|-------------|--------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| | | Volume Sche | me: | Volume Ir | nformation |
| S 75.8 MB Untitled 0 | | Current | (*) | Name: | |
| 76.7 GB Century | | | | Format: | Mac OS Extended (Journaled) |
| | | | | Size: | |
| | | | | | Locked for editing |
| | | | | _ | |
| | | | | [⊻] Install | Mac OS 9 Disk Drivers |
| | | | | To create start up di | a volume that can serve as a Mac OS 9 isk, select Mac OS 9 Drivers installed. |
| | | | | Select the volume sc the schem and size. (| disk you want to partition and choose a heme. Click each volume represented in e and specify a volume name, format, Click Partition. |
| | | Split | Delete | Options |) Revert Partition |

5. Select Volumes Scheme.

| Burn New Image Convert Ver | ify Enable Journaling | Info Mount Eject Log |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 57.3 GB IC35L060AVV2 MAC OS 9.2.2 MAC OSX 10.4 87.0 MB Pioneer DVD-R 75.8 MB Untitled 0 76.7 GB Century | Volume Schu ✓ Current 1 Partition 2 Partitions 3 Partitions 5 Partitions 6 Partitions 7 Partitions 8 Partitions 10 Partitions 11 Partitions 12 Partitions 13 Partitions 13 Partitions 14 Partitions 15 Partitions 16 Partitions | First Aid Erase Partition RAID Restore eme: Volume Information Name: Format: Mac OS Extended (Journaled) ‡ Size: Locked for editing Install Mac OS 9 Disk Drivers To create a volume that can serve as a Mac OS 9 Start up disk, select Mac OS 9 Drivers Installed. Select the disk you want to partition and choose a volume scheme. Click each volume represented in the scheme and specify a volume name, format, and size. Click Partition. |
| Disk Description : Connection Bus : Connection Type : Connection ID : | Split | Delete Options Revert Partition Total Capacity : Write Status : S.M.A.R.T. Status : |

6. Enter Volumes Information, such as "Name" and "Format" click Partition.

| 57.3 GB IC35L060AVV2 MAC OSX 10.4 | First Aid Volume Scheme: | Erase Partition RAID Restore | |
|----------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 87.0 MB Pioneer DVD-R 75.8 MB Untitled 0 | 1 Partition | Name: Single 1 | |
| 76.7 GB Century | | Format: Mac OS Extended (Journaled) | * |
| | | Size: 76.69 GB | |
| | | Locked for editing | |
| | Single 1 | Install Mac OS 9 Disk Drivers To create a volume that can serve as a Mar start up disk, select Mac OS 9 Drivers insta Select the disk you want to partition and cl volume scheme. Click each volume represe the scheme and specify a volume name, for and size. Click Partition. | c OS 9 illed. noose a ented in rmat, |
| | Split Delete | Options Revert Par | tition 🔪 |

7. Confirm to partition the disk by click **Partition**.



8. The newly formatted disk with the Volume name will display on the windows in the left.

| 000 | | |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Burn New Image Convert Verify | Enable Journaling Info Moun | Eject Log |
| S7.3 GB IC35L060AVV2 MAC OSX 10.4 S7.0 MB Pioneer DVD-R T5.8 MB Untitled 0 T6.7 GB Century Single 1 | First Aid Volume Scheme: Current Single 1 | Erase Partition RAID Restore Volume Information Name: Single 1 Format: Mac OS Extended (Journaled) (*) Size: 76.57 CB Locked for editing Locked for editing Install Mac OS 9 Disk Drivers To create a volume that can serve as a Mac OS 9 Start up disk, select Mac OS 9 Drivers installed. Select the disk you want to partition and choose a volume scheme. Click each volume represented in the scheme and specify a volume name, format, and size. Click Partition. |
| Disk Description : | Split Delete | Options Revert Partition |
| Connection Bus : Connection Type : Connection ID : | s.m.A.i | R.T. Status : |

- 9. Repeat the above procedure as needed for any other disks.
- 10. Close the Disk Utility window upon completion.
- 11. The new disks will appear on the desktop and ready for use..

Chapter 5 - FAQ

I. The unit is not recognizing in the disk management/disk utility.

Make sure USB and Power cables are connected properly. Reconnect the cables and power on the unit. **2. The unit is not working consistently with the computer.**

Windows 3.x/ 95/ 98SE/ ME/ NT is not supported. Please check with your computer's operating systems versions. 3. When copying files, the transfer speed is slow.

The transfer spend is slow when connect to USB1.1 interface. In order to increase the transfer rate, using USB 2.0 is recommended.

4. When format in the Windows 2000/ XP/ Vista/ Server 2003, the dialog box appear "Unfinished formatting"

Windows 2000/ XP/ Vista/ Server 2003 can not format HDD over 32GB by FAT32, Please format by NTFS

- 5. When using different capacity or brand HDD, can we still using Combine mode? Yes.
- 6. When Hard Drive failure on Combine mode, is it possible to recover the data in other hard drive? It depends on the location of the failure hard drive. The "Sample 2" image below, the entire disk can not be read. Failure hard drive and any hard drive afterward will fail to read, hence data in those hard drive will be loss.



In Sample 1, data can be read from disk 1 to disk 2, while any data on the disk 3 and 4 will be loss.



In Sample 2, no data can be read from any disk.