



User's Manual

Home Series CR-H252

2-Bay Portable RAID Tower

EXTERNAL 2-BAY SATA RAID USB3.0 ENCLOSURE



Table of contents

Chapter 1 Read me first	3
1-1 Copyright and Trademark Notice.....	3
1-2 About this manual.....	3
1-3 Safety Warning.....	3
Chapter 2 Introduction	4
2-1 Product description.....	4
2-2 Specifications.....	4
2-3 System requirement.....	4
Chapter 3 Package contents and description.....	5
3-1 Package contents.....	5
3-2 Product parts description.....	5
Chapter 4 Function set up	7
4-1 Installing the Hard disks	7
4-2 The setting of RAID mode.....	8
Chapter 5 Initialization and format the hard disk.....	10
5-1 Initialization in Windows 2000 / XP/Vista.....	10
5-2 Initialization in Mac OS X.....	10
Chapter 6 How to use this product.....	11
6-1 Connecting to PC	11
6-2 Disconnecting from PC.....	11
Chapter 7 Trouble shooting.....	12

Chapter 1 Read me first

1-1 Copyright and Trademark Notice

Microsoft, Windows are Trademarks registered by Microsoft Corporation, Apple and Apple OS X are registered by Apple Computers, Inc. All other trademarks and product names are the properties of other respective owners.

Thank you very much for purchasing this product, In order to use the product properly, please read this manual first before using this product

1-2 About this manual

All information in this manual have been carefully reviewed to ensure its accuracy, if any further information is added in order to keep the operating instructions up-to-date, we reserve the right to modify this manual without notice

1-3 Safety Warning

For your safety, please read and followings

- ◆ Before install CR-H252, please read this manual.
- ◆ CR-H252 is a sophisticated electronic device, please do not repair this device by yourself; in case of malfunction, turn off the power immediately and send it back to the dealer service center, For more information, please contact with CineRAID Technical Support (the contact information is on the last page of this manual)
- ◆ Do not allow anything to rest on the power cord, and do not place the power cord on the place where is easy to be stepped on, please make proper arrangement for wiring.
- ◆ Please do not make the CR-H252 exposed to the environment that is with excessive moisture, dust or any corrosive liquids.
- ◆ Please do not place the ventilation holes of CR-H252 next to an article or obstruct to avoid overheating.
- ◆ Keep the package out of children reach

Chapter 2 Introduction

2-1 Product Descriptions

Support 2 SATA HDDs, which is with RAID & JBOD function, and support 2 hard disks that can be used either as 2 individual hard disks or as a single hard disk with 2 combined hard disk capacity. CR-H252 supports 3 RAID modes (the RAID0, 1, JBOD), and Normal. You can select the RAID modes by setting the jumper switches on the rear panel of the device.

Note: When the hard disk capacity is larger than 2TB, please note Windows XP only recognizes the hard disk capacity that is up to 2TB, the volume that exceeds 2 TB will not be recognized.

2-2 Specifications

- Dimension
8.4" x 5.3" x 4.5"(L x W X H)
- Weight
Approx. 3.3 LBs (Not include the Hard disk)
- Interface
USB 3.0
- Power Adapter
Input: 100V - 240V AC
Output: +12V DC at 3.0A
- Operating Environment
Temperature 5 °C - 35 °C
Humidity 20% - 80%

2-3 System requirements:

2-3-1. Support OS

PC, PC compatible computers, or Apple Macintosh

- **Interface**
USB3.0/2.0/1.1 interface: with USB3.0 (backward compatible with USB2.0/1.1)
- **Operation System**
Windows 7, Windows Vista, Windows XP SP-1, Windows 2000 SP-3, Windows Me Apple
Mac OS X 10.3 or latest edition

Chapter 3 Package contents and description

3-1 Package contents

The following items are included in this product package, please check and make sure if all items are included in the package first

1. Main body of this product

2. USB3.0 cable

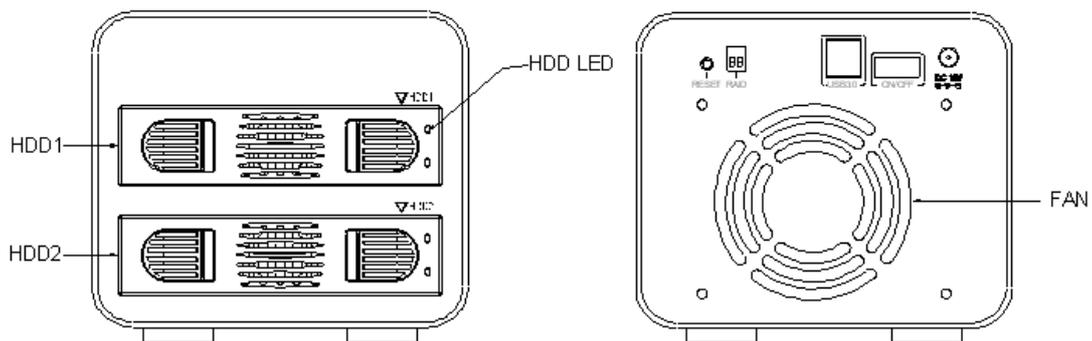
3. Power Adapter

4 User manual disk

			
Main body X1	USB3.0 cable X1	Adapter X1	CD X 1

Please contact with the Technical Service Support if find any item missed in package.

3-2 Parts description



1) To remove the HDD tray: press and hold the tray blue part with your thumb and index finger to pull the tray outward, install the HDD onto the tray, then place the tray back to the enclosure, please put the bottom of the tray parallel on HDD tray, so that it can be pushed and slide in to place.

- 2) HDD status LED : Blue Light - the hard disk working properly ,
: Blinking RED light - the hard disk to read and write(or Blue blinking light - . RAID1 cannot be re-built)
- 3) Power Switch: to turn ON or OFF the device power.
- 4) Reset: Press Reset button when changing the RAID mode setting
- 5) MODE: RAID mode jumper switch, please see Section # 4-2 below for more details
- 6) USB3.0 Port: to be connected to an USB3.0 port of a PC with the enclosed USB3.0 cable.
- 7) Power input: DC12V power input socket

Chapter 4 Function set up

4-1 Installing the hard disks

Please remove the plug of power supply from the outlet before installing the hard disk, to avoid any electric shock or damage.

	<ol style="list-style-type: none"> 1. To remove the HDD tray: press and hold the tray blue part with your Thumb and index finger to pull the tray outward,.
	<ol style="list-style-type: none"> 2. Place the HDD on the tray, remove the 2 side snaps (blue color plastic), then place the HDD onto the tray with the HDD screw holes onto the pillars on the bottom of the tray.
	<ol style="list-style-type: none"> 3. Lock the HDD on the tray by replacing the side snaps back to each side of tray.
	<ol style="list-style-type: none"> 4. Place the installed trays back to the enclosure, connect the power cord back, connect the USB 3.0 cable with the USB port of your computer, then turn ON the enclosure. The CR-H252 is ready for use..

HOW TO INSTALL 2.5" Hard Disks

	<ol style="list-style-type: none"> 1. Remove the side snap on each side of tray
	<ol style="list-style-type: none"> 2. Fix the 2.5" HDD on the tray with 4 screws (enclosed in the package)

4-2 The setting of RAID mode

Hard disk combined mode can be set by setting the MODE jumper switches on the rear panel of the enclosure.

4-2-1 RAID MODE

4-2-1-1 RAID SWITCH SETTING LIST

Item	S/W 1	S/W 2	RAID MODE	Description
1	OFF	OFF	Normal	Normal , works as 2 individual HDD's
2	OFF	ON	JBOD	JBOD, works a 1 single HDD
3	ON	OFF	RAID0	RAID0, works as 1 single HDD
4	ON	ON	RAID1	RAID1, works as 1 single HDD

4-2-1-2 RAID mode change procedure

Before using this product, please back up your original data in the hard drives, as the data in the hard drives might be lost during the RAID mode setting. Please refer to the above RAID SWITCH SWETTING LIST to do the mode setting; and follow either one of the below procedures to set the jumper switches:

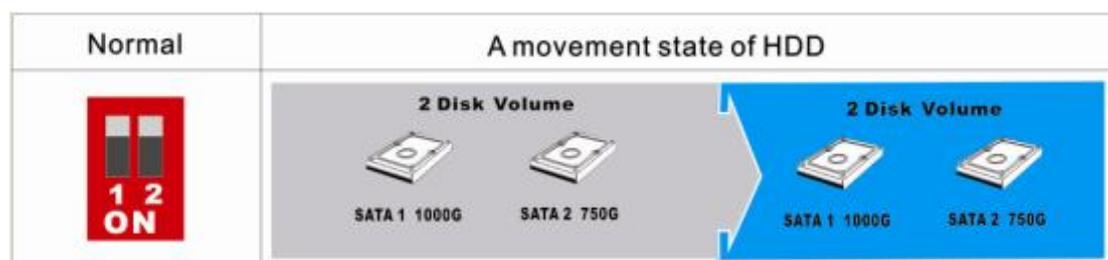
Procedure 1: When the POWER is turned OFF - set the Switch 1, 2 according to the RAID SWITCH SETTING LIST; then turn the POWER ON, the enclosure will start working at the set RAID mode.

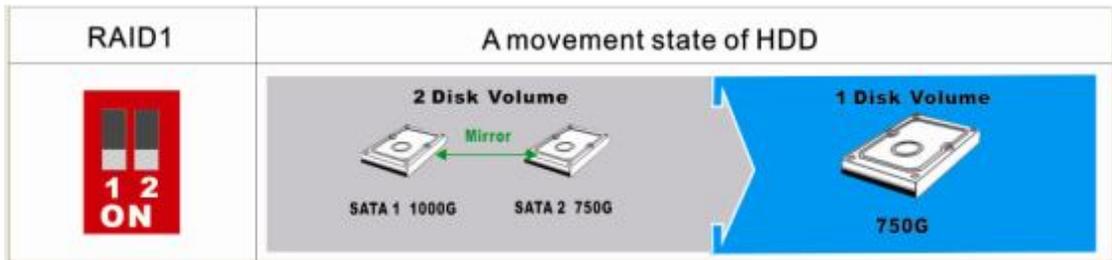
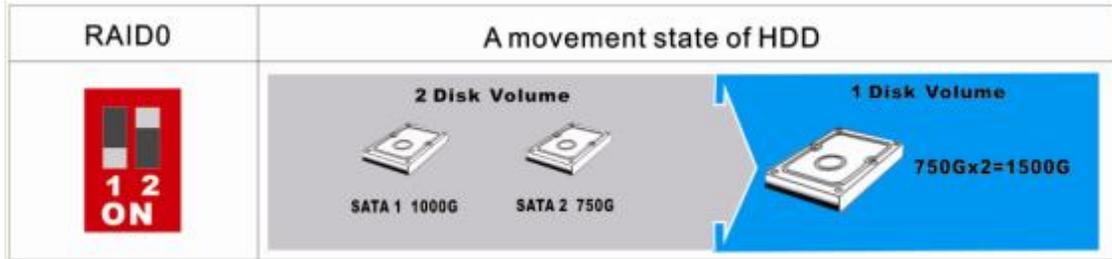
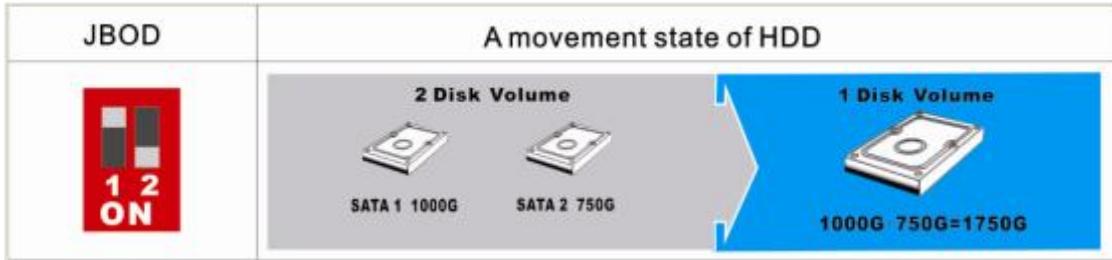
Procedure 2: When the power is turned ON, set the Switch 1, 2 according to the RAID SWITCH SETTING LIST; press RESET button then the device will start working at the new set RAID mode.

Note:

When you want to change to another mode from RAID 1 mode, please set the enclosure to RAID 0 mode before changing the another mode.

4-2-1-3 The Disk Configuration at each Switch Setting





 **Note:**

Please backup the data in your hard disk before setting any RAID at the beginning, as the RAID mode setting procedure will initialize the hard drive(s) into the virtual disk volumes and completely remove the original data from the hard drive(s) first.

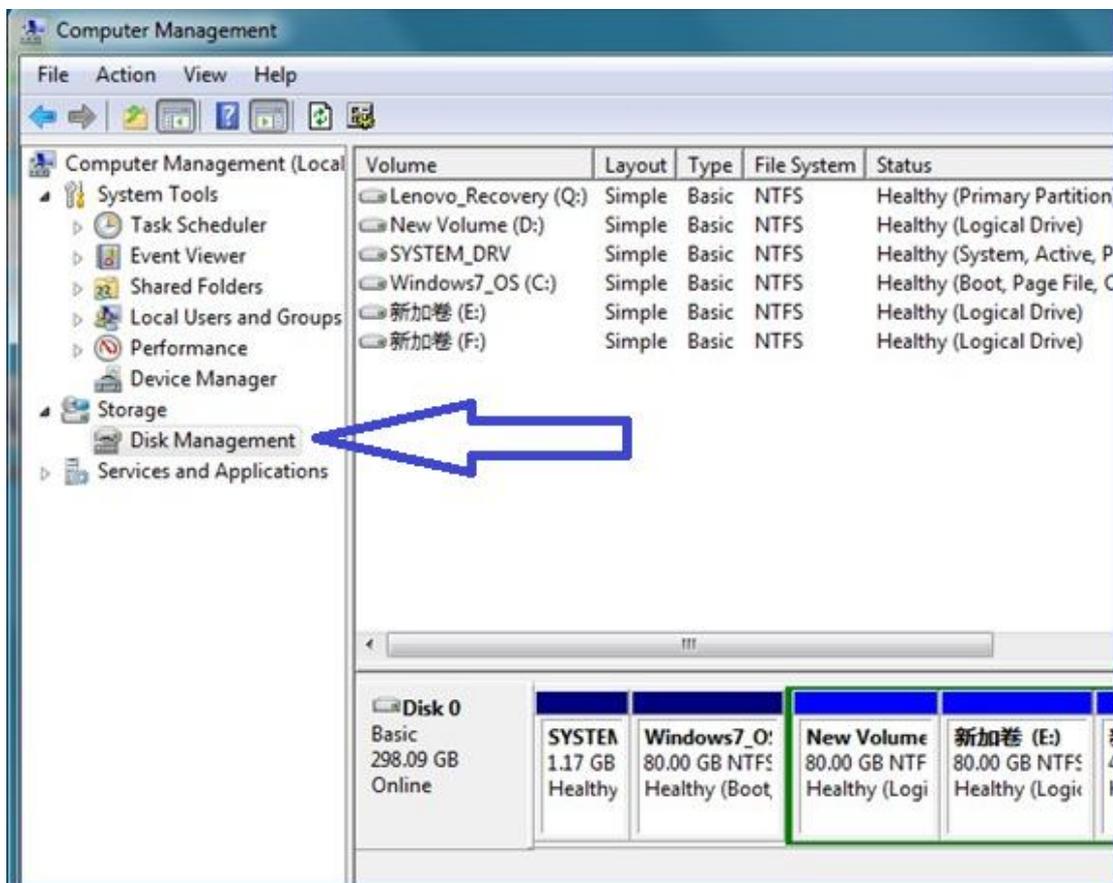
Chapter 5

Initialization and format the hard disk

5-1 Initialization in Windows7/windows vista/Windows 2000 / XP/ Vista

CAUTION! Partitioning and formatting a disk drive will delete the original data in the HDD. We assume NO responsibility for your lost data.

To format the new CR-H252 HDD, follow the below command path: **“start” menu** ---**“control Panel”**---**“Management tools”**---**“computer management”** ---**“storage”** ---**“Disk management”** to format the new CR-H252 disk step by step. Or go to the desktop **“my computer”**, connect the new CR-H252 to the computer, a new hard disk code will appear, move the cursor to the new hard disk code and select to format the new hard drive(s). You may select **“quick format”** in order to save the time to format hard disk.



5-2 Initialization in Mac OS X

Run **【Disk Utility】** to initialize and format hard disk

※ Note: if you have to use the WINDOWS OS, do not format hard disk in MAC OS, please use FAT32 format hard disk.

Chapter 6 How to use this product

6-1 Connecting to PC

After boot your computer, follow below steps to connect CR-H252 with your computer:

1. Start your computer and wait until the computer is booted
2. Use the enclosed power adapter to connect CR-H252 to the power outlet, connect USB cable, and turn CR-H252 ON.
3. The HDD1~HDD2 hard disk power LED lamps will be ON indicating the status of the installed hard disk(s).

6-2 Disconnecting CR-H252 from the PC

Before disconnecting CR-H252 from the PC, please follow the below steps to disconnect the USB cable at CR-H252

	<p>Under Windows:</p> <p>Press “safely remove USB Mass storage Device” on the task bar.</p> <p>Then you can disconnect the USB cable or turn the power OFF..</p>
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Chapter 7 Trouble shooting

■ the CR-h252 device is not recognized when connect to a computer. Or the device does not work well.

- Check the status and connection of the power switch and the power supply outlet.
- Check whether the connection of the USB 3.0 cable is firmly connected.
- Check the jumper of each hard disk which is set correctly.
- Check if each HDD is well installed in the enclosure.
- Please check the OS limitation of filing system and partition capacity vs. what you are using.

■ Windows 2000/XP can not perform “disk management” program

You must be logged on as an administrator in order to initialize hard disk at the system of WINDOWS 2000/XP

■ USB transfer speed is slow.

1. If your computer might not be with an USB3.0 interface, you may add a PCI to USB3.0 card into your computer. If your computer interface is USB2.0, then the product transfer speed is USB2.0 speed.
2. If CR-h252 is connected to the computer via a USB HUB, please verify whether the USB hub is USB3.0 version, if it is USB2.0, then the transfer speed can only be at USB2.0 speed.
3. Your computer is connected with more than 1 USB device may slower down the USB transfer speed,. please remove the other USB devices that are not in use.
4. Make sure use the attached USB 3.0 CABLE

■ In Windows 98 SE and Mac OS cannot recognize HDD which already formatted in Windows 2000 / XP.

Please refer to the following form to confirm if you are using a supported file format

OS	filing system		
	NTFS	FAT32	HFS
Windows 98 SE	×	○	×
Windows ME	×	○	×
Windows 2000Pro	○	○ #1	×
Windows XP	○	○ #1	×
Mac OS	×	○ #2	○

#1 WINDOWS system can only format FAT32 file system to 32GB, if you need to format the

hard disk over 32GB, please use other vendor programs, such as “Norton Partition Magic”.

#2. MAC OS can not format FAT32 file format, please format hard drive in the WINDOWS OS

■ **The description of hard disk capacity calculated**

As the hard disk supplier’s operation system is different, it will have a different method of calculation capacity. So showed capacity is less than the hard drive marked capacity. This calculates capacity indication of a hard disk at 1GB =1000MB, but a calculation on the OS is calculated at 1GB =1024MB.

For example: Three 400GB combined into one hard disk, the disk space is 1.2TB, after the operation system formatting, the differences as below:

HardDisk	1.2TB	1,200GB	1,200,000MB
OS	1.09TB	1,117GB	1,144,409MB

For Technical Support

Email: Support@CineRAID.com

Telephone: 714-961-0800 (Ext.107)

FAX: 714-961-0899