OWC Mercury Rack Pro[®]

OWCMRP4B8U2

Quick Installation Guide

Version:1.0

Index

Check Package Contents and Accessories	2
Hardware Introduction	2
Precautions prior to Installation	3
Hardware Installation Procedure	4
Hard Disk Drive Format Procedure	11
How to Use the Operating System to Set Up the RAID Type	16
Product Description	20
Frequently Asked Questions	21

Check Package Contents and Accessories

OWCMRP4B8U2 system includes the following:



Hardware Introduction



Status Indications of LEDs:

% If you install hard disk to the tray ,the HDD Access LED light is yellow,or not it is empty.

 $\dot{\heartsuit}$ HDD Access LED will flash yellow when the data is accessed from the hard disk drive.



☆ Fail LED will light red when the internal temperature is higher than 60°C or the fan fails,or hard disk fails in RAID 0 mode.
☆ If you have not install 4 hard disks in JBOD mdoe, the Fail LED light will be red, but it is normal condition.

Precautions prior to Installation

- Before installation, please refer to the Check Package Contents and Accessories and ensure necessary parts are fully provided. Contact the original distributor in case of any missing or damaged item.
- 2. Please use the power cord that comes with the package to connect the power supply. Do not disassemble or modify the device without authorization. Be sure to use 100-240V, 60Hz, power supply. Any unauthorized disassembly or modification may cause damage to the electronic parts and deprive you of the benefit under the warranty. OWC is not liable and responsible for any damage due to unauthorized disassembly or modification, if such unauthorized disassembly or modification results in data damage or loss, or causes the operating system unable to start.
- 3. Please carefully go through the Quick Installation Guide and back up your data on the hard disk drive before installation or use the newly purchased hard disk drive to avoid data loss in case of inadvertent operation. OWC is not reliable and responsible for any data damage due to inadvertent operation, if such inadvertent operation results in data damage or loss, or causes the operating system unable to start.
- 4. Hardware Requirements
 - A. To enhance compatibility and transmission efficiency, please connect to motherboards or external cards supporting USB 2.0 or higher.
 - B. To enhance compatibility and transmission efficiency, please connect to motherboards or external cards supporting 1394b or higher.
- 5. OS Software Requirements

The product is ideal for any operating system compatible with the USB or 1394b interface

Hardware Installation Procedure

- 1. After verifying that the package is complete, proceed to unpack the package.
- 2. Hardware Installation.
 - A. Insert the supplied plastic key into the lock hole on the removable tray and carefully remove the tray.



B. Remove the holder from the removable tray with a screwdriver (be careful not to damage the nuts)



C. Mount the hard disk drive and fasten the screws.



 $\ensuremath{\mathbb{D}}$.Carefully push the removable tray into the slot and push the handle back into place.



3. Use Mode and Connection Wiring Descriptions

Users must determine which mode to use prior to installation. Once the installation mode is selected, please do not change the mode arbitrarily if possible. Especially when you have already selected RAID 0 mode but change it to JBOD mode later or vice versa, it will cause data damage in the HD.

A. Switch Adjustment Mode Illustrations:

With the machine powered off, you can adjust Switch by selecting any of the following modes from the rear panel of the machine .

- a. For 4 Hard Disk Drives Installed
 - Two JBOD modes, supporting 4 physical hard disk drives



• Two RAID 0 modes, supporting 2 virtual hard disk drives



- HDD 3 HDD 2 HDD 1 JBOD Raid 0 USB 2.0
- An RAID 0 mode and a JBOD mode, supporting 3 hard disk drives

- a. For 2 Hard Disk Drives Installed
 - A JBOD mode, supporting 2 hard disk drives; or an RAID 0 mode, supporting 1 hard disk drive



4. Connection Wiring Descriptions and Illustrations:

When the mode for Switch has been selected, you can then install the OWCMRP4B8U2 with the following connection wiring methods. It is recommended you use 1394b cables to connect to the computer for better performance.

A. Connect two 1394b cables to the interfaces of the computer (most recommended installation method).



B. Connect two USB cables to the interfaces of the computer.



C. Connect to the interfaces of the computer with a 1394b cable and a USB cable.



D. Connect a 1394b cable to the interface of the computer and connect another 1394b cable serially to the rear panel of the OWCMRP4B8U2. (The method is recommended if there is only a 1394b interface of your motherboard.)



E. Connect a 1394b cable only to the interface of the computer.



F. Connect a USB cable only to the interface of the computer.



G. Two OWCMRP4B8U2 units serially connected each other



- 5. Never use any of the following methods for serial connection
 - A. In different modes, do not connect two 1394b cables or USB cables on an OWCMRP4B8U2 to different PCs and then serially connect to two 1394b interfaces of the OWCMRP4B8U2 with a 1394b cable. This will make the OWCMRP4B8U2 unavailable for use and may mess up the data on the hard disk drives of the two PCs.



B. Be sure not to connect the 1394b interface and USB interface of an OWCMRP4B8U2 to the same motherboard simultaneously while using the same connection interface.



Hard Disk Drive Format Procedure

- 1. In the four individual Hard Disk Drives modes, the installed devices can be detected by the Device Manager of the operating system.
 - A. Windows Operating System 1394b Interface Connection JBOD Mode



2. Customers can format the hard disk drive by using the Disk Management tool of the operating system and then using the OWCMRP4B8U2 normally.

A.Operating Instructions for Windows OS

2 Computer Menagement				_		
File Actor vew Window 1	wb					
	š					
Computer Management (Local) System Tools (a) System Tools (b) Shared Folders (c) S	Yoken Land II (C) Pation III. Pation	Type: File System Rutua Basic: ADPS Healthy (System) Basic: ADPS Healthy Basic: ADPS Healthy	Cepentry Pres Space 78.13 GB 74.49 GB 33.66 GB 33.60 GB	15 Free Faul 95 % No 99 % No	Tuleranze Overhead 0% 0%	0
Concept Hanager Storage Concept Storage Concept Storage Concept Storage	Brosk 0 feak 111-79 (8 Origine	(00) 78.15 GB HTPS Healthy (System)				New Valueve (Pt) 33.46 GB ATPS Healthy
B Services and Applications	RPDIsk 1 Basic 24.53 GB Onine	74.53 GB Unafacated	Time Party State			
	43Posela 2 Bester 294523 GB Crebra	74.52-68 Unafficiated	Properties : Help			
	60Poiale 3 Basic 74.53 GB Onlean	74.52 GB Unafficiated		6	New Par	tition
	APPOult 4	-		- 9266	them in all	
	Staric 74.53 GB Online	74.53 GB Unallocated		1.1	Propertie	
	@CD-ROM 0 DVD-(D1)				roperce	
	Sto Marks			1.02	1000	



Conputer Management (Local) S Trates Fools S Table Fools S Tabl	Where Lenst III (C) Fartion III (C) Fartion III (C) Fartion III (C) Fartion	Tige Pfe Sutien Rober Basic NTPS Healthy (System) Basic NTPS Healthy Basic NTPS Healthy	Countin Free System No. Pred Tuberance Overtree 70.13 GB 74.40 GB 95 % No. 0% 71.53 GB 74.45 GB 95 % No. 0% 33.44 GB 33.44 GB 99 % No. 0%	l
Device Hanager Sorage Sorage Dial Defragmenter Dial Hanagement	Bittak B Batic LIL 79 GB Oritine	(CC) 16.13 (d) ATPS Telefity (System)		New Yolama (P.) 20.44-00 MIPS Healty
B Services and Applications	Brook 1 freek 74.53 GB Online	New Yolanov (E.) 14.53 GB MITS Healty		
	Billowk z fuerc 34.53 GB Orderer	74.53 GB Unabcated		
	BRosk 3 fask: 74.53 GB Orline	24.53 (8 Unabcased		
	Bhosk 4 Daik: 24.53 GB Online	74.52 GB Undicated		
	200-40M 8 000 000		-	
	Pas Media		New Volume (E:) 74.53 GB NTPS Healthy	

B. Operating Instructions for Macintosh

After the hardware installation for the OWCMRP4B8U2 is completed, you can restart the system and connect the device to Macintosh.

Hard Disk Drive Format (same as in the Windows format function)

- a. Move the cursor to the Toolbar on the Desktop, and select the Disk Utility. A disk tool window will pop up with several function tabs, such as First Aid, Erase, Partition, RAID and Reinstall.
- b. Select the Erase tab. If the disk device is ready, the disk information will be displayed on the left window.
- c. To erase all data and volumes on a disk, please select the icon for the disk drive and a Volume Format and enter a name and then click "Erase". A dialog will pop up with the following message, "Erasing a disk will destroy all information on the volume of the disk. Are you sure you wish to erase the disk 'XXX'? Cancel or Erase" If you wish to erase, please click "Erase". After the disk is formatted, you can use the OWCMRP4B8U2 normally. Please refer to the figure for instructions.

900		Oxford Se	miconductor Ltd.		
Ann New Image Mount Open Coalt	De Journaliera	0 Infa			
76.3 C8 Maxtor 6Y080M0 MAC 05 74.5 C8 WDC WD800JD-22LSA0 Unittled 7.5 C8 WDC WD800JD-22LS Unittled	74.5	rase a disk or volume, select sing a disk erases all data ar GB WDC WI	First Ald Fraze Partition RA Its icon, specify a format and name, and id volumes on a disk, leaving the disk em D800JD-22LSA0	UD Restore . click Erase. pty. Erasing a selected volume or	ases that volume
74.5 C8 WDC WD800jD-22LSA0 Umitied 74.5 C8 WDC WD800jD-22LSA0 Unitiled Unitiled	•	Volume Format: Name:	Mac OS Extended (Journaled) Untitled Install Mac OS 9 Disk Driver		
	c	train free Space	Select this option to use this device on a computer running Mac OS 9. This option does not affect Classic.	trane	
Bisk Description : Oxford Semi Connection Bas : PartNet Connection Di IST710187 Connection 10: IST710187	conductor Ltd. 19304263	Tetal Capacity : 74.5 CB (Write Status : Read/Wri S.M.A.R.T. Status : Not Supp	80.026.361.856 Bytes) le onind		

000	Oxford Se	miconductor Ltd.	C
New Image Dect Each Interior	line of the second seco	Erase	
76.3 G8 Maxtor 6Y080M0 MAXC 05 74.5 G8 WDC WD800jD-22L5A0 Untitled 74.5 GB WDC	To erase a disk or volume, select • Erasing a disk erases all data ar WD800ID-2215	Forst Add Tosse Partson BAAD Restore Its icon, specify a format and name, and cick fraze. d volumes on a disk, frazieg the disk service, frazing a selected or AD proces before (ficking fraze.	lume arises that volume
74.5 CE WDC: WDB000D-22LSA0 ■ Unmoted 72.5 CE WDC: WDB000D-22LSA0 Unmoted Unmoted	Volume Format: Name: Crate free Sens:	Mac OS Extended (Journaled) Unitided Unitided Ministal Mac OS 9 Disk Dorber Stefact hith argoins are with denies må computer running Mac OS 3. This option dens mot affect Classics (Security Options) Erase Erase	D
Disk Description : Oxford Semicono Connection Rus : Fertilite Connection Type : External Connection ID : 1375710183910	Inctor Ltd. Tetal Capacity: 74.5 GB (Write Status : Read/Net S.M.A.R.T. Status : Not Supp 4263	80,026,161,856 Bytes) Iz onred	

000		Oxford Semiconductor Ltd.	0
76.3 GB Maxter 6Y08000 24.5 GB Work Work 276.5 GB Work Work		Orderd Semiconductor Etd.	cted volume erases that volume
Initial // / S G WOC WOROGO-22LSA0 // Initial // / S G WOC WOROGO-22LSA0 // / S G WOC WOROGO-22LSA0 // United	vo •	Imme Format: Mac OS Extended (journaled) () Name: Unriled Imme Imme () (OS 9 Disk Driver and Semantine segment in Arbit Offerer and dees not affect Classic.	
Disk Description : Oxford Sec Connection Rus : FreeWor Connection Type : External Connection ID : 11757101	niconductor Ltd. Total Cap Write St SMART, St 839304263	xifey : 74.5 CB 180,024.561,856 Byres) alles : Read(Write alles : Not Supported	

000	Oxford Semiconductor Ltd.	C
New Image Dealer Elect Lindia	unding Mo	
76.3 CF Maxtor 6Y080M0 MAC 05 74.5 CF WDC WD800[0-2215A0 24.5 CF WDC WD800[0-2215A0 24.5 CF WDC WD800[0-2215A0 0 ctrilid 74.5 CF WDC WD800[0-22 74.5 CF WDC WD800[0-22 0 CT WD	To case a disk or volume, select to score, specify a format and name, and cl To case a disk or volume, select to score, specify a format and name, and cl to case a disk or volume, select to score a disk, saving the disk empty and to compare the disk or selection of the disk of the disk of the disk body of the disk of the disk of the disk of the disk of the disk body of the disk of the disk of the disk of the disk of the disk body of the disk of	D Restore Ick Erzee. In: Tracing a selected volume erzses that volume citizing Erzee.
Unnide	Volume Format: Mac OS Extended (journaled) Name: Unnitled Install Mac OS 9 Disk Driver Select this splon to use the device an a computer renning Mac OS. This splon deen net affect Cleanic.	
Disk Description : Oxford Semica Connection Bio: Foreitre Connection Bio: 117571018393 0	hetter Lid. Tantal Capacity: 74.5 Gi (b).026,361,356 Bytes) Salar Salar Sala Salar Salar Sa	

C.Partition

Select the disk you wish to partition and the Partition tab. Click the volume name displayed in the structure and select a Volume Format and enter a name and size. A dialog will pop up with the following message, "Partitioning a disk will destroy all information on the volume of the disk. Are you sure you wish to partition the disk 'XXXXXX'? Cancel or Erase" Please click "Partition". After the disk is successfully partitioned, you can use the OWCMRP4B8U2 normally.

How to Use the Operating System to Set Up the RAID Type

1. Operating Instructions for Windows OS

SOHOTANK OWCMRP4B8U2 can be set up as a highly efficient RAID system in an operating system. To set up a highly efficient RAID system with the OWCMRP4B8U2, please refer to Microsoft related web sites.

According to Microsoft's reference, portable external hard disk drives can not be converted to dynamic hard disk drives through 1394b or USB interfaces. Namely, it is impossible to use the OS utility to provide a RAID configuration. However, it is possible to convert portable external hard disk drives to dynamic hard disk drives by changing the OS parameters. Unless you are an MIS or related engineer, please DO NOT arbitrarily change Microsoft related parameters to avoid any OS damage or boot failure.

Please be careful when connecting the computer with USB. It is not recommend using the OS configuration to set up an RAID.

Information for Microsoft Related Web Sites

http://support.microsoft.com/kb/299598/en-us http://support.microsoft.com/kb/299598/zh-tw http://support.microsoft.com/kb/303184/zh-tw http://support.microsoft.com/kb/302969/en-us http://support.microsoft.com/kb/302969/en-us http://support.microsoft.com/kb/302969/en-us http://support.microsoft.com/kb/303237/zh-tw

2. Operating Instructions for Macintosh

To set up an OWCMRP4B8U2 with Macintosh OS as a highly efficient RAID, you need hard disk drives with the same storage size.

You can use the disk utility provided by Mac OS 10.4.6 to create RAID systems. The following is a brief description on how to operate. For more detailed information on RAID setup, please refer to Apple computer related web sites.

A. Move the cursor to the Toolbar on the Desktop, and select the Disk Utility. A disk tool window will pop up with several function tabs, such as First Aid, Erase, Partition, RAID and Reinstall.



B. Select the RAID tab. If the disk device is ready, the disk information will be displayed on the left window. Please select the Volume Format and the RAID Type you wish to create. Please decide the RAID Type that you create by the amount of external hard drive disks.

0.0.0	WDC WD800JD~00LSA0
76.3 C8 Maxtor 6Y080M0 MAC 05 74.5 C8 W05 W05000 005.540 maxtor 6Y08000 005.540 maxtor 67000 005.540 maxtor 67000 005000 - 221580 maxtor 6700 watch 1.2 dmg Watch 1.2 dmg	First Ad Example Participa BADD Restore BADD Set Name: Unitide BADD Set 4 Wold mer forms/ March 51 Strated dynamidti Volume forms/ March 51 Strated dynamidti March 51 Strated BADD Set 4 March 51 Strated BADD Set 4 NADD Set Estimated Size March 51 Strated BADD Set 1 March 51 Strated BADD Set 5 March 51 Strated BADD Set 5 Dag disks or volumes to the In March 71 Stratem B create multiple RAD sets.
	. (Mac OS Extended (Journaled)
Disk Description : WDC WD800 Connection Nar : Serial ATS Connection Type : Internal	Country
(?) (?) (?)	hanned 3°

000	WDC WD800JD+00LSA0	0
000	WDC WD800JD-00LSA0	C
	Inter Auf Taxe Particine MAD Restore MAD Set Name: Unstitled AuAO Set 4 Image: AuAO Set 4	
Disk Description WDC WD500 Connection Bass Serial ATA Connection Type Internal Connection Type Internal Connection TD : Device 0, *C	[0-005540 Vertal Capacity: 74.5 G8 (00,025.361.356 Bytes) Wirds Status - Read/Write SAAART, Salas - Vertified axend 3*	

C. Drag disks or volumes to the list box to create the hard disk drives according to the definition of RAID.

WDC WD800JD-	00LSA0	0
WDC WD800jD-	22LSA0	0
First RAD Set Name: Literative Values format: March Values format: March Values format: March Values formation RAD Set Essewated Size: 74.5 C Drag fishs or onlineers to the lit these to o Values for any other set of the literative New member: 'disk1' New member: 'disk2'	Add Erass Partition 0000 Retitors of RAD Set 4 55 Extended Generaled anare a RAD set. Click the Place (+) batter to create multiple anare a RAD set. Click the Place (+) batter to create multiple December 2000 Retire to create multiple Retire to create multiple Retire to create multiple Retire to create multiple New member: "d	e AAD see. isk1" isk2"
0 Total Capacity : 74.5 C8 (80.026.36 Write Status : Read/Write S.M.A.R.T. Status : Verified	1,856 Bytes)	
	WC WD8000- WDC WD8000- WDC WD8000- RAD Set Name: Until NAD Text Set Name: Until NAD Text Set Name: Set Name: Set Name: Name: Set Name: S	WC WDB0000-00C540 WC WDB0000-221540 Frist Ad frase Fertine BAD Retree EAD Set Name Ext Of Ended Grounded Walkin Farmer Mo Te for any Second Comparison Mo Te for a start of the second Second Comparison Mo Te for a start of the second Second Comparison New member: "disk1" New member: "disk2" New member: "disk2"

D. Select "Create" to create RAID systems according to the information in the window, as shown in the figure.

000 WD	WD800JD-00LSA0
0.0.0 WD	WD800JD-22LSA0 C
Tot. 3 CE Master 91756900 Marco 65 Tot. 3 CE Master 91756900 Marco 65 Tot. 3 CE Master 91756900 Marco 61 Tot. 3 CE Master 91756900 Marco 61 Marco 61	Inst Add Taxe Puttien BAD Restore
Disk Description : NDC WDR00D-2213A0 Connections The: Strail ATA Bar Connections Type: Internal Typestates: Read/ SAAATS.States: Vorling	LINO224.361.856 Pytesi I

000	WDC WD800JD-00LSA0	0
000	WDC WD800jD-22LSA0	
As J CE Master 6Y080M0 MAC OS As C K MOR MD8000-0015A8 disk133 ZAS CE WOR MD8000-2215A8 disk133 ZAS CE WOR MD8000-2215A8 disk133 Xbench_1.2.dmg Xbench_1.2.dmg Xbench_1-2.dmg	Creating a ALD are will destroy all information on the destroy are used as all to will be destroy and a start on the destroy are used as all to will be destroy and a start on the destroy. We will be destroy all information on the destroy are used as all to will be destroy and a start on the destroy. We will be destroy all information on the destroy all information on the destroy are used as all to will be destroy and a start on the destroy. We will be destroy all information on the destroy all information on the destroy are used as all to will be destroy and a start on the destroy. We will be destroy all information on the destroy	eate
Bisk Description : WDC WD80(3D-2LSA0 Consection Rus : Serial ATA Ray Connection Type : Ineration Connection B) : Device 0, "Channel 2" (f)	Testal Capacity : 74.5.Cl (R0.2%, ISL.856 Bytes) mote Status : 5 Sauf (Print SMART, Satus : Venfled	

E. When the format is completed, you will have a highly efficient RAID system featured with OWCMRP4B8U2. You can then access the data through the RAID system, as shown in the figure.

900	Untitled RAID Set 4	(
	First Aid Date Purchase RAND Restore BAID Set Name Unitation & RAND Set 4 Set 05 Statested groundedt 2 VAID Type: Matrix 05 Statested groundedt 2 RAND Set Site: 74 4 CB To delete a selected RAID set, tick Obles.	
∦ Nbench, 1-1.2.dmg ∦ Nbench, 1-1.2.dmg	74.4 CB - "Untitled RAID Set 4" - Mirrored RAID Set Online 24.4 CB - RAID Slice (disk1s3) 74.4 CB - RAID Slice (disk2s3)	
Disk Description - Apple BAD Set Name - Unities RAD Set - Type : Minneed RAD Set	Tetal Capacity : 74.4 CB (75.852,056,714 Bytes) ALO Satura : Outine Namerer of Store : 2	
() ()		