

OWCMRP4B8U2ES
User Manual

Introduction

About this Manual

Thank you for using the product of Other World Computing.

The SOHORAID OWCMRP4B8U2ES products will be introduced throughout this manual. It is recommended that you go through this manual before starting using the SOHORAID OWCMRP4B8U2ES products.

Although the information has been verified before published, specifications are subject to change without prior notice. Please refer to <http://www.macsales.com/> for any product specification or update of related information.

Notice: Other World Computing. only provides technical support and service to OWC direct customers.

For end users or non-direct customers, please contact your distributor for better support and prompt responses. If your product is not purchased directly from OWC, please do not contact us directly since you may not get any reply.

OWCMRP4B8U2ES Quick Installation Guide

1. Package Contents

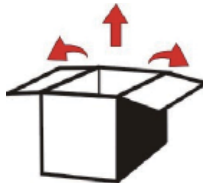
After you open the outer package, make sure that the following items are contained in the package:

- OWCMRP4B8U2ES product body
- AC Power Cord
- RS-232 Port Cable
- USB2.0 Cable
- SATA Cable
- 1394b Cable
- CD
- User Manual
- Accessory Kit

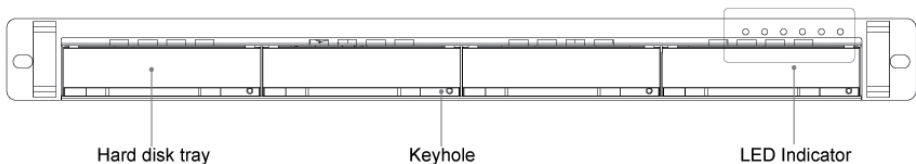
2. Hardware Installation

Please follow the procedure below to complete the hardware installation of OWCMRP4B8U2ES:

Step 1 Open the outer package and take out the product body. (Make sure the related accessories and the product body are not damaged or missing. If you have any questions, contact the distributor or sales)



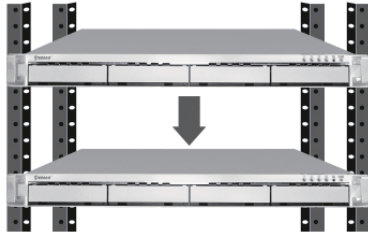
Front View



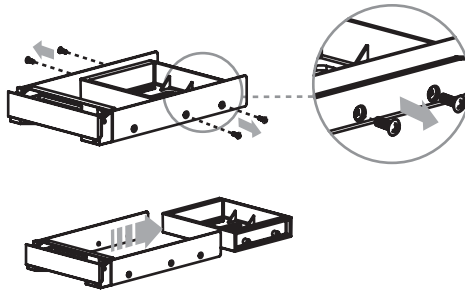
Rear View



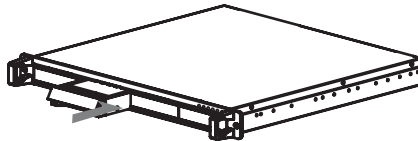
Step 2 Mount the product to the rack. Make sure that the fan is not blocked and there is appropriate space around for heat dissipation. (Do not place the product nearby water area or any environment that may cause damage to the product)



Step 3 Take out the tray and install your hard disk in it. Make sure to fasten the hard disk securing screws to prevent damages caused by unnecessary movement.



Step 4 Once the installation is completed, insert the tray back and fix it firmly in the proper place.



Step 5 Select the RAID 0 or NRAID mode.



Step 6 Connect the cables to the corresponding jacks. Then connect the power cord.

Step 7 Hardware installation is completed. You can power on the system to start the related setup and application.

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Chapter 1 RAID Introduction

1.1 What is RAID?

It is inevitable that a single hard disk, either with SCSI or IDE interface, will suffer the compatibility problem between the motor rotational speed and the transfer interface. As a result, an Ultra160 SCSI or ATA100 IDE hard disk can only achieve the transfer rate of up to 30MB/Sec at the bandwidth of 100MHz. In addition, the life span of a hard disk is limited. Once a hard disk is damaged, it is likely to lead to the system crash and data loss. Abovementioned are two severe problems in network system architecture. These factors have encouraged the generation of RAID (Redundant Arrays of Inexpensive / Independent Disks), a technology that combines multiple inexpensive and independent hard disks into an array of hard disks so as to increase data transfer performance and storage efficiency.

RAID implements the mechanisms such as Striping or Mirroring plus Parity Checking, to combine two or more physical hard disks into one virtual/logical disk array that allows On-line, quick access, huge capacity and fault tolerance. If one of the hard disks in the array is damaged, the system continues to operate using the remaining working hard disks, resulting in no system crash or data loss.

In summary, RAID technology increases the performance and data security in network system architecture.

1.2 RAID Functions

- Expanding storage capacity
- Increasing data transfer speed
- Saving cost
- Inherent Fault Tolerance
- Hot Swap
- Auto-Rebuild
- Hot Spare
- On-line Capacity Expansion

1.3 RAID 0 vs. NRAID

The OWCMRP4B8U2ES provides two level applications: RAID 0 (RAID 0 + NRAID) and NRAID.

RAID 0: Striping + NRAID (fast, has no fault tolerance; requires at least four hard disks)

The OWCMRP4B8U2ES provides a RAID 0 level application that is different from ordinary ones.

OWCMRP4B8U2ESs RAID 0 level contains Striping + NRAID at the same time; the capacity will be expanded while the performance is increased. In the aspect of capacity calculation, the system will first execute the Striping function to combine the four hard disks into two units, and then execute the NRAID function. Due to lack of the data backup function, entire data system will be damaged in case of any hard disk malfunction.

NRAID: Non-RAID (has no fault tolerance; requires at least four hard disks)

As RAID 0, NRAID combines all physical disks into a large-capacity hard disk. However, the difference is that NRAID stores data directly starting from the first hard disk. After the first hard disk being full, it will go for second one, and so forth. NRAID's calculation of available disk capacity is also different from that of RAID 0: NRAID's total capacity equals the sum of all physical disks' capacity.

The NRAID level of data storage does not disassemble and separate the data; it will switch to next hard disk as long as the previous one is full. Therefore, when data storage area stretches across two hard disks, errors and access problems are prone to occur upon such data. Also, because of the lack of actual RAID application, when a hard disk crashes, the data will be lost.

For more information of RAID, refer to our website at <http://www.macsales.com/>

Chapter 2 Features and Specifications

2.1 Features of Hardware

The SOHORAID OWCMRP4B8U2ES mainly supports SATA interface for hard disks. It provides RAID 0 / NRAID functions for users to select from. The SOHORAID OWCMRP4B8U2ES supports four large-capacity SATA hard disks. With the total storage capacity up to 2TB and the maximum transfer speed at 150MB/Sec, the series satisfies the need for large capacity, as well as providing high-speed access performance.

The SOHORAID OWCMRP4B8U2ES comes with the following features:

- With four SATA II 3.0 GHz hard disks installed, it can support a large capacity over 2TB.
- Supporting multiple host interfaces: eSATA+ 1394b+USB.
- Providing RAID 0 application mode: providing high-speed transfer performance that surpasses 80MB/sec.
- Providing NRAID storage calculation: capable of combining hard disks with different capacities into a large hard disk.
- Providing the system-detecting function: Fans, temperature sensor and buzzer-triggering device can help detect system status to avoid the risk of losing data.

2.2 Hardware Specifications

Product Model	OWCMRP4B8U2ES
Host Interface	eSATA + 1394b +USB 2.0 Triple
Hard Disk Interface	4 x 3.5" SATA HDDs
Transfer Speed	150 MB/s & 80MB/s & 48MB/s
Chips Specifications	RAIDON ASIC 2044
Hard Disk Quantity	4
RAID Levels	0, NRAID
Maximum Storage Capacity	up to 2TB
Fan	2 x 40*20 Fan+1x40*20 Power Fan
Power Supply	200W POWER, 100V~240V
Power Indicator	Yes
LED Indicator	4 x Drive Access LED Indicators+ 1 x Environment LED Indicator
Operating System Supported	Mac 10 later, Linux core 2.4 later, Windows series
GUI Software	Windows Based
Size	430Wx 420D x 43H mm
Safety Codes Certification	CE/FCC

Chapter 3 Installation

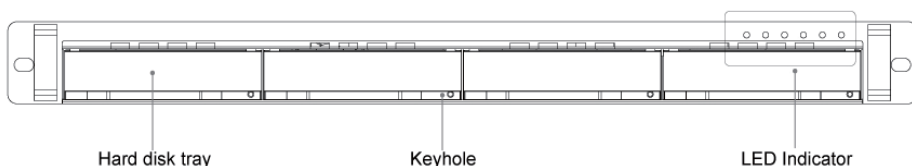
3.1 Accessories Check

After you open the outer package, make sure that the following accessories are contained in the package:

- OWCMPR4B8U2ES product body
- AC Power Cord
- RS-232 Port Cable
- USB2.0 Cable
- SATA Cable
- 1394b Cable
- CD
- User Manual
- Accessory Kit

Make sure the related accessories and the product body are not damaged or missing. If you have any questions, contact the distributor or sales.

Front View



Rear View



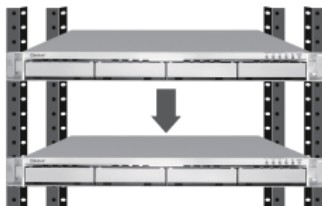
3.2 Environment Requirements and Precautions

- 1 Regardless of settings, please be sure to install four hard disks on a OWCMPR4B8U2ES. Although the series allows users to use hard disks with different capacities, it is recommended that identical hard disks be used to gain convenience in purchasing hard disks and better performance in using them.
- 2 Please make sure that hard disks are free of any bad track. Otherwise, system crash or the loss of all data will occur in case of any hard disk malfunction.
- 3 It is recommended that the mode RAID 0 or NRAID is determined beforehand. Once the system is being re-set after setup for use, the data of hard disks will be damaged.
- 4 RAID 0 and NRAID do not have data backup function. They can combine all hard disks into a large-capacity hard disk to have faster transfer performance. All data in the hard disks will be damaged in case of any hard disk malfunction.

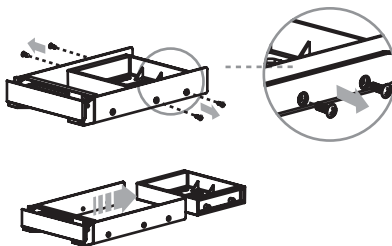
3.3 Hardware Installation

After verifying that the product body and related accessories are not missing or damaged, please follow the following procedures to complete the hardware assembly.

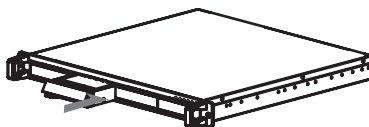
Step 1 Mount the product to the rack. Make sure that the fan is not blocked and there is appropriate space around for heat dissipation. (Do not place the product nearby water area or any environment that may cause damage to the product)



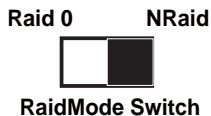
Step 2 Take out the tray and install your hard disk in it. Make sure to fasten the hard disk securing screws to prevent damages caused by unnecessary movement.



Step 3 Once the installation is completed, insert the tray back and fix it firmly in the proper place.



Step 4 Select RAID 0 or NRAID Application.



Step 5 Connect the cables to the corresponding jacks. Then connect the power cord.

Step 6 Hardware installation is completed. You can power on the system to start the related setup and application.

3.4 Software Installation

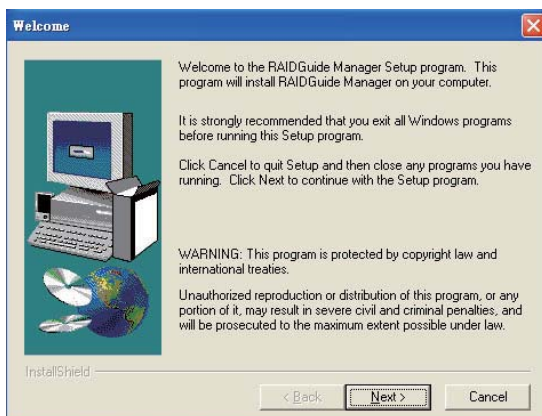
RAIDGuide Management is an application software to set up the RAID system. You can use it, along with the RS232 port, to easily retrieve and display the data related to the RAID system.

Installation

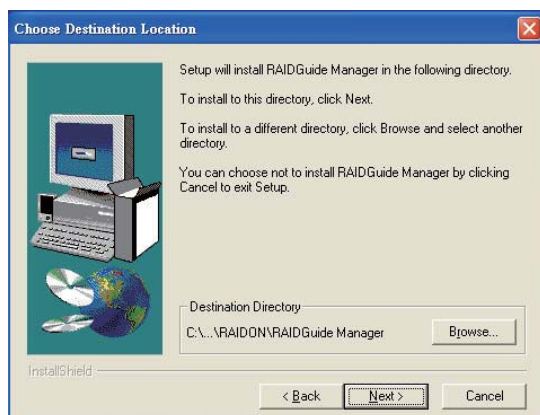
To start the installation, place the RAIDGuide Management CD into the CD-ROM drive and select the installation program of the RAIDGuide folder. Once the installation is completed, you will be able to use RAIDGuide Management.

To install RAIDGuide Management, please follow the following procedures:

Step 1 Executing the RAIDGuide Management installation file; the welcome screen will be displayed.



Step 2 Select "Next" and the system will ask you about the path address for installation. You can either select the installation folder or the default path.



Step 3 Once you have confirmed the installation path and folder, select "Next." The system will ask you for the name of the folder, which is displayed on the program list. Confirm it and select "Next." The installation is now completed.



Now that the installation is completed, you can use RAIDGuide Management to set up and manage your system.

Chapter 4 RAIDGuide Management

RAIDGuide Management is an application software to set up the RAID system. You can use it, along with the RS232 port, to easily retrieve and display the data related to the RAID system. System-related information includes: system status, hard disks' errors, system errors, hard disks' insertion and identification, as well as the progress of data-rebuilding.

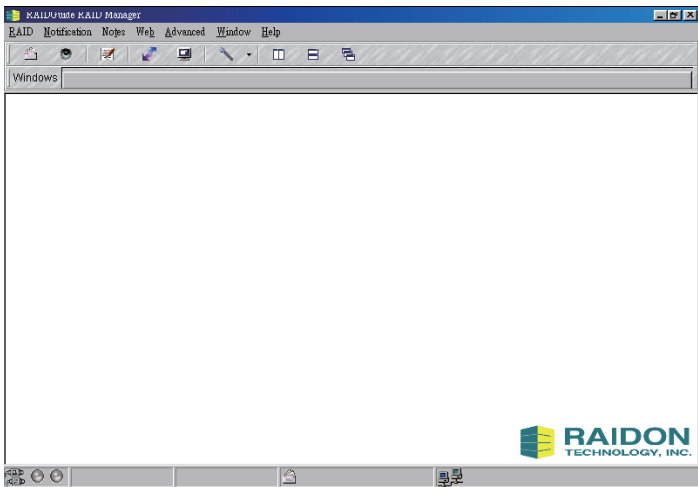
Features:

- 1. Supports connection of two sets of RAID systems
- 2. Supports e-mail notification when either hard disk error or system errors
- 3. Supports warning by PC speaker when error occurs; it would broadcast warning signals with wav or midi files
- 4. Supports up to 20 users who can login from different sites
- 5. Hidden in the tool bar; the window will automatically pop up when error occurs.
- 6. Detects errors in fan, temperature, hard disk, and system status
- 7. Firmware updates (password: 1234)

System Requirements :

Hardware	Specification
Microprocessor	Pentium
Memory	64MB
Connection Line	1 Set
Hard Disk Space	10MB
Screen Resolution(Suggestion)	800 x 600
Operation System	Window98, ME, XP and NT

After the software being installed, select [RAIDGuide RAID MANAGER]; the program will start and the main window will pop up, as the following figure shows. Select [connection line] from the RAID function list at the top of the window, and then start to execute the program. Select the Help function to learn more about the operational procedures. Please refer to section 3.3 for installation procedures.

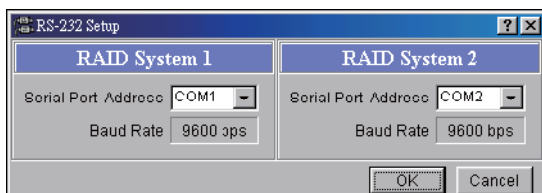
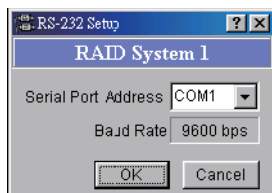


4.1 Connecting the RAID System

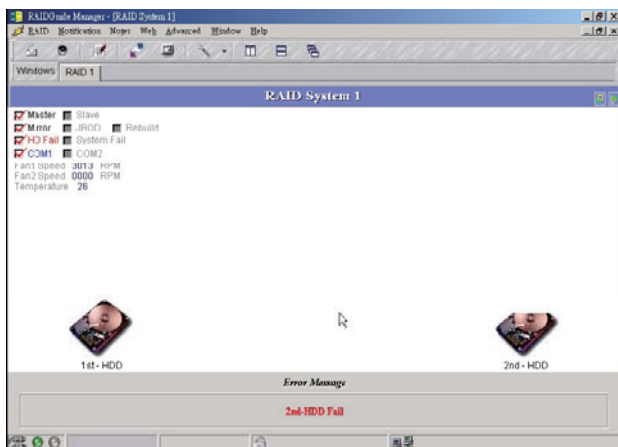
Through PC serial port, the program receives the RAID system information and displays it on the screen. The information includes system modes, hard disk damages, system damages and the process of rebuilding.

Connect:

- Select [RAID] as the main catalog and [Connect] as the sub-catalog.
- Select one or two RAID systems and the correct serial port address for connection; press [OK] key to connect the RAID system. When all systems are connected, the window will display the following figure. Otherwise, the window will display error messages.
- Serial port's baud rate is 9600 bps.



Detailed information of the RAID system includes: name of RAID mode, revision and time of firmware, mode of transfer, capacity of RAID, and hard disk information. Once connected, the RAID system will display the following figure on the window:



To close the connected RAID system window, select the [RAID] main menu and press [Disconnect] on the sub-menu.

4.2 Notification

4.2.1 E-Mail

E-mail program can be set for notification in case of any damage to hard disk or system malfunction. When malfunction occurs, you can select whether to send the e-mail or not. You can also edit the items and content of the e-mail by yourself. In addition, the program will automatically add the error message to the front content of the e-mail.

Executing e-mail function:

- When PC serial port receives notification such as damages to system hard disk and system malfunction.
Stopping the e-mail function:
- When the e-mail notification function is complete.
- When the retry function is complete.



Notice : The TCP/IP network components must be installed in the computer.

The screenshot shows the 'E-Mail' dialog box with the 'Setup' tab selected. The 'E-Mail Notify' checkbox is checked. The 'E-Mail Setup' section includes fields for 'Port', 'E-Mail Host', 'Login User Name', 'Name', 'E-Mail Address', and 'Time Out'. There is also a 'Connect E-Mail Host' button with a clock icon and a '(Sec)' label. The 'OK' and 'Cancel' buttons are at the bottom right.

Setup Page : Select the [Notification] main menu and the [E-Mail] sub-menu. Select the [Setup] page.

- Check Box: Select to use e-mail notification function or not.
- Port: The connection port for e-mail host.
- E-Mail Host: The name of e-mail host.
- Login User Name: Users login Internet and intranet user names.
- Name: User's e-mail name.
- E-Mail Address: User's e-mail address.
- Time Out: Time Out period can be set for trying to connect to e-mail host.

The System Malfunction/hard-disk Damage Page : Select the [Notification] main menu and the [E-Mail] sub-menu. Select other pages.

- E-Mail Address: Editing recipient's e-mail address.
- Add: Adding new recipient's e-mail address to the abovementioned address list.
- E-Mail Subject: Editing subject for outgoing e-mail.
- E-Mail Content: Editing content for outgoing e-mail.



Notice : • The program will automatically add information of hard disk/system malfunction to the front-end content of the e-mail.

- If you want to execute the e-mail notification function, remember to view the check box on the [Setup] page.
- If you have executed the e-mail notification function and connected the RAID system, e-mail will be sent automatically to you when hard disk damage or system malfunction occurs.
- If you are unable to view check box or display [Error Message], please install the TCP/IP network components.

4.2.2 Setting up the Alarm

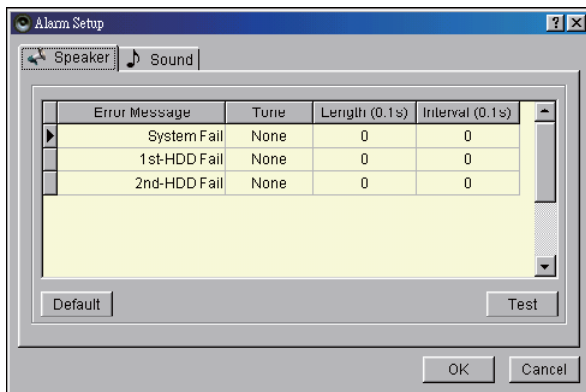
PC buzzer can be set for warning and wav or midi file can be set for executing in case of hard disk damage or system malfunction occurring to the RAID system. For the latter, your PC needs to have sound card installed in advance. For facilitating identification, you can set different tones, frequencies, or sounds to represent different error messages. The alarm function supports only connected RAID systems.

When Executing the Alarm:

- Select the range of [Tone]: high/medium/low, or select the proper file for the range of sound: wav or midi.
- Set up [Length] of time and the [Interval].
- Set up [Interval].
- The RAID system occurs corresponding [Error Message]. (Hard disk damage and system malfunction)

When Stopping the Alarm:

- With the first hard disk or the second hard disk in damage mode, when the hard disk is being locked in, the alarm will stop automatically.



Using the Tone Alarm: Select the [Notification] menu and the [Alarm] sub-menu; select the [Speaker] page.

- Press [Tone] and pull down the list of tones. Select a frequency to match the error message. There are four frequencies: mute, high, medium and low.
- Set up [Length] of the tone period. 0.1 second per unit.
- Set up [Interval] of tone replay. 0.1 second per unit.
- Select an error message and press [Test] key to test the tone alarm. Press again to stop the alarm.
- Press [OK] key to store set data and close the window.



Notice : • [Error Message] is not editable.

- Use [Default] key to set for all as follows: Tone = None, Length = 0 sec., and Interval = 0 sec.
- To stop the function of single speaker, select None for single speaker under [Tone], and then press [Enter] key. [Length] of the tone period and [Interval] will be set to 0 automatically.

Using the Sound Alarm: Select the [Notification] menu and the [Alarm] sub-menu. Select the [Sound] page.

- Select [File], and pull down the dialog window for opening files. Select a wav or midi file to match the [Error Message].
- [Length] will auto-display the file in its entirety.
- Set [Interval] between replays of wav or midi file at 0.1 second per unit.
- It is recommended that selecting an [Error Message] and pressing [Test] key to test the sound alarm. Press again to stop the alarm.
- Press [OK] key to store set data and close the window.



Notice : • [Error Message] and [Length] are not editable.

- Use [Default] key to set for all as follows: File = None, Length = 0 sec., and Interval = 0 sec.
- To stop the function of single sound alarm, first select [File] for single alarm, clear the content, and then press [Enter] key. [Length] and [Interval] will be set to 0 automatically.

4.3 Event Log

The program will record the events in the database. You can search for event data by the begin/end date and the name of event. Right-click the mouse to delete any number of events from the database. You can set any record through the databases of the [Advanced] menu and the [Options] sub-menu.

Items of Events:

- All Events
- Connected
- Disconnect
- 1st-HDD Fail
- 2nd-HDD Fail
- 1st-HDD Insert and Identify
- 2nd-HDD Insert and Identify
- Rebuild (1st-HDD to 2nd-HDD)
- Rebuild (2nd-HDD to 1st-HDD)
- System Fail (1st-HDD Fail)
- System Fail (2nd-HDD Fail)
- RAID Information Upload Fail
- Send E-Mail Fail
- Fan1 Speed
- Temperature

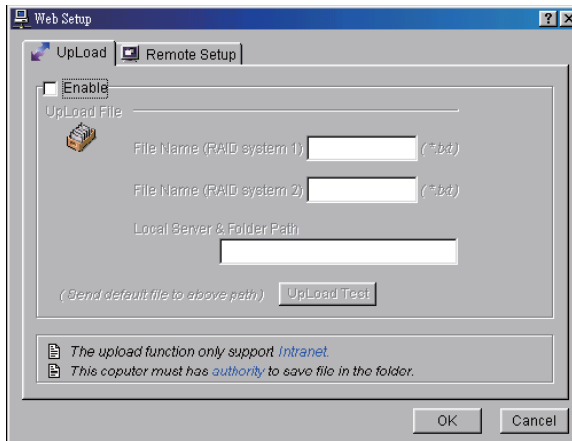
No	Event	Date	Time
10	2nd-HDD Insert and Identify	2/23/01	16:00:06
11	Rebuild (1st-HDD to 2nd-HDD)	2/23/01	16:00:25
12	2nd-HDD Fail	2/23/01	16:00:27
13	Send E-Mail Fail	2/23/01	16:00:32
14	2nd-HDD Insert and Identify	2/23/01	16:00:55
15	2nd-HDD Fail	2/23/01	16:01:08
16	2nd-HDD Insert and Identify	2/23/01	16:01:20
17	2nd-HDD Fail	2/23/01	16:01:39
18	System Fail(1st-HDD Fail)	2/23/01	16:01:40
19	Send E-Mail Fail	2/23/01	16:01:41
20	Send E-Mail Fail	2/23/01	16:01:41
21	Disconnect	2/23/01	16:01:43
22	Connected	2/23/01	16:01:46
23	System is Mirror Mode	2/23/01	16:01:46
24	System Fail(1st-HDD Fail)	2/23/01	16:01:46
25	Send E-Mail Fail	2/23/01	16:01:46

4.4 Web

4.4.1 Upload

The program supports the network remote monitor, and uploads RAID system information to the folder of intranet server. If RAID system is working in a computer which has intranet, you can upload RAID system information to web server's folder. You can also perform remote monitor via the program.

- Notice :
- This function only supports the uploading of the local RAID system information to intranet server's folder. It does not support the uploading to Internet.
 - The TCP/IP network components must be installed in the computer.



Usage : Select the [Web] menu and the [Upload] sub-menu.


- Verify [Check Box].
- Edit the upload file name of local RAID system1/RAID system2. For example: (*.txt).
- Edit the upload path for local web server.
- You can press [Upload Test] key to test upload path and permission. The program will also display relevant information.
- Press [OK] key to store set data and close the window.

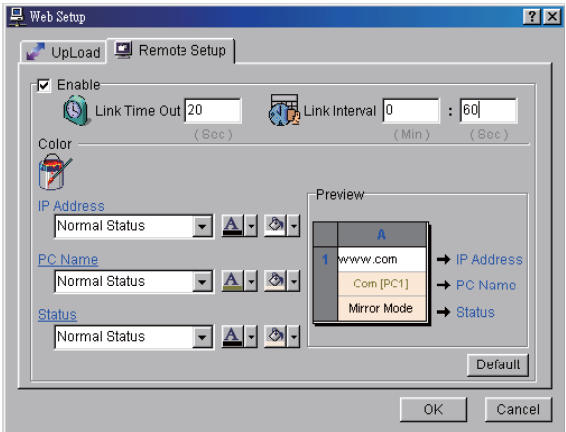


- Notice :
- Before downloading local RAID system information, it is recommended that using [Upload Test] key to test download path.
 - If you want to activate the upload function, please remember to verify the check box on the [Upload] page.
 - The computer needs to have the permission to save files.
 - When upload function is activated, local RAID system will receive data from the serial port, and the upload function will be executed automatically.
 - If you are unable to verify the check box or display the error message, please install the TCP/IP network components.

4.4.2 Remote Setup


Use the program to display remote RAID system information. Through network, you can download remote RAID system information and then display it on the screen. The download will proceed at intervals, and status color will be added to the multi-remote grids set by the user.

 Notice : The TCP/IP network components must be installed in the computer.




Setup : Select the [Web] menu and the [Remote Setup] sub-menu.

- Verify [Check Box].
- Set [Link Time Out] values.
- Set [Link Interval].
- Set colors for items on the list.
- Press [Default] key and re-download the grids' default colors.
- Press [OK] key to store set data and close the window.


 Notice : To activate the multi-remote window function, remember to verify the check box on the [Remote Setup] page.

Displaying Multi-remote Detection Window: Select the [Web] page menu items and the [Multi-Remote Window] sub-menu.

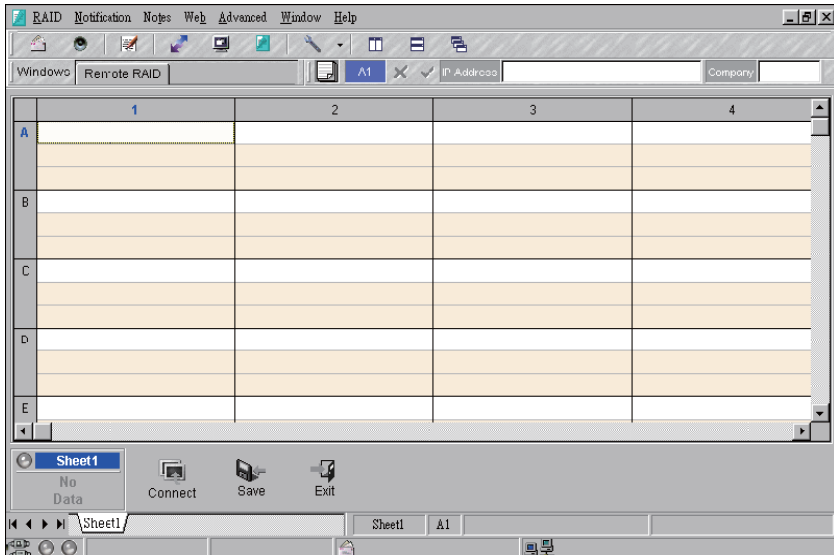
 Notice : If you are unable to select the aforementioned key, you can press the [Remote Setup] check box to activate multi-remote window.

4.4.3 Multi-Remote Window

Use the program to display multi-remote RAID system information. Its window can support the remote RAID system for up to 20 users. You can change the grids' colors in the [Remote Setup] window.

 Notice : The TCP/IP network components must be installed in the computer.

Setup: Select the [Web] page menu items and the [Multi-Remote Window] sub-menu.



Select one grid and press [Enter] key to edit IP address and company name. Press [V] key to verify data. Right-click the mouse to use other functions.(If not yet connected, this function will be activated.)

- Edit Data: Editing IP address and company name. When cursor becomes a finger symbol, select one grid and press [Enter] key to edit data. Press [V] key or [Enter] key to verify data. Hot key [Enter].
- Remote RAID Info: Displaying remote RAID system's complete information. Hot key [F5].
- Link Test: Trying to link selected IP address. Hot key [F6].
- Copy Grid Data: Copying selected grid data.
- Paste Grid Data: Pasting copied grid data.
- Delete Grid Data: Deleting selected grid data.
- Insert & Shift Grid: Inserting and shifting other grids' data at selected address. You can go by row or column.
- Del & Shift Grid: Deleting selected grids and shifting other grids' data. You can select single row or column, or you can also select all rows or columns.
- Undo: Undoing the previous insertion/deletion of grids.
- Clear All Grid Data: Clearing all data from the selected page.
- Connect: Press [Connect] key to connect remote RAID system information. All links of the page will be executed at the same time.
- Disconnect: Press [Disconnect] key to stop downloading the remote RAID system. If you want to exit the window, please be sure to stop the connection.
- Save: Press [Save] key to store multi-remote window information, including IP address, company name, computer name, and form name. If window information has not been saved after modification, notification will show up.
- Exit: Press [Exit] key to exit the multi-remote window.
- Sheet Rename: Select one form and right-click the mouse, other renamed windows will show up.



Notice : • If you want to activate the multi-remote window, remember to verify the [Remote Setup] box.

- If not yet connected to the remote RAID system, the right-click function is effective.

Displaying the Remote RAID System Window: Select an IP address, and then either double-click or press [F5] to display the remote RAID system's complete information.

4.5 Advanced

4.5.1 Options

Using the program options to set detailed variables.

Connect : Set the time out period for serial port connection.



Notice : Need to set values for the blanks.

E-Mail :

- Send Retry: Select the e-mail Send Retry function, and verify the check box for activating the function. Otherwise, this function cannot be activated
- If it fails to connect the e-mail host, then set [retry times] and [interval time].

Remote Monitor:

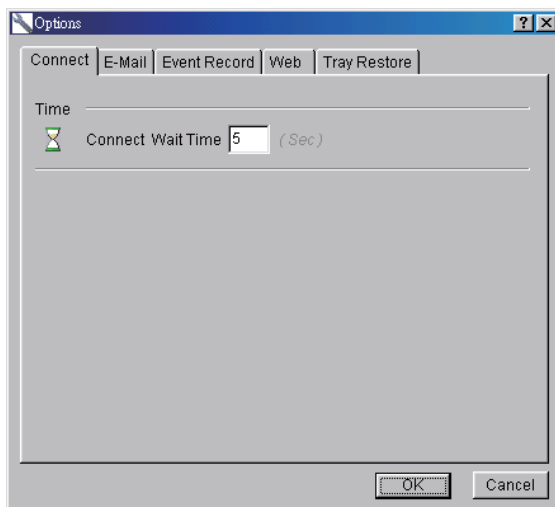
- Link Retry: Select the Link Retry function, and verify the check box for activating the function. Otherwise, this function cannot be activated.
- If it fails to link remote web server, then set [retry times].

Event log:

- Select Event Log items to determine any record in the database. Use [Select All] key to view all items, and use [Clear All] key to clear all items.

Tray Restore:

- Press the F10 hot key, and the program will hide in the HDD tray.
- Double-click the [tray] image to restore the program window. Or, you can right-click the mouse to select the [pop-up] menu items.
- If hard disk damage or system failure happens to the local/remote RAID system, select to auto-restore the window.



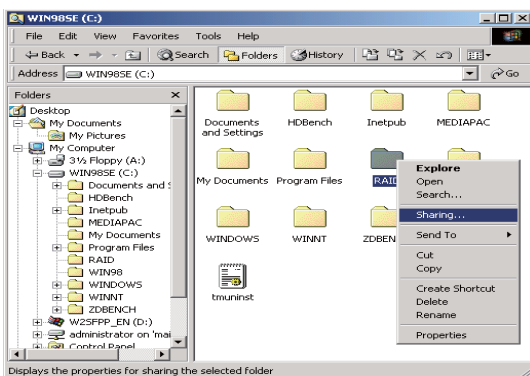
4.6 Sharing the Folder of Web Server (take Windows 2000 Server for example)

The RAID management supports upload (intranet) and remote (Internet) functions. Therefore you have to share one folder in order to allow other RAID systems to upload *.txt files.

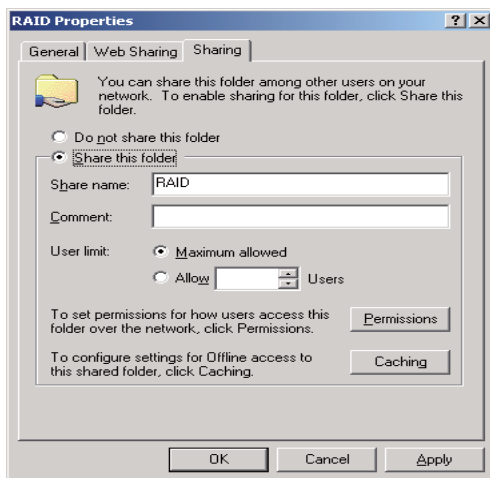
Other than sharing folders, you also need to set up accessible folders in web browser. There are two methods to set up computer-accessible folders of web server. One method is to utilize Internet Service Manager, and the other is to use Windows Explore.

4.6.1 Sharing Folders (for the Upload Function)

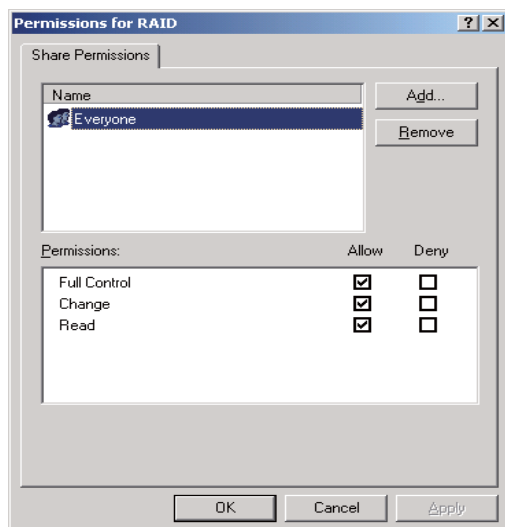
- Execute the Windows Explore and right-click the mouse to share folders. (Refer to Figure A-1.1)
- Editing [Share Name]. See Figure A-1.2.
- Press [Permissions] key to set up folders to be allowed for sharing. (Refer to Figure A-1.3)
- The folder changes its image. (Refer to Figure A-1.4)



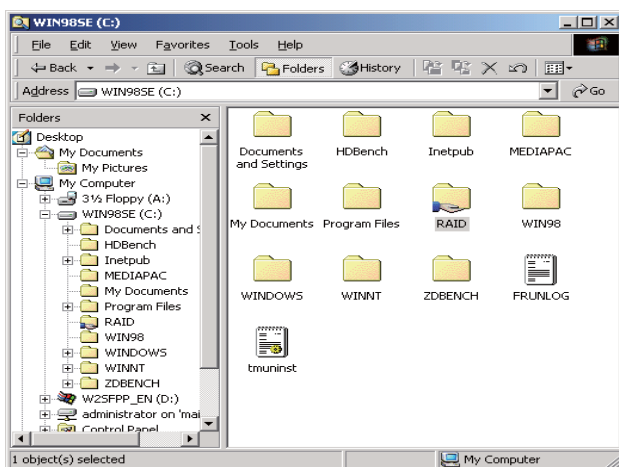
(Figure A-1.1)



(Figure A-1.2)



(Figure A-1.3)

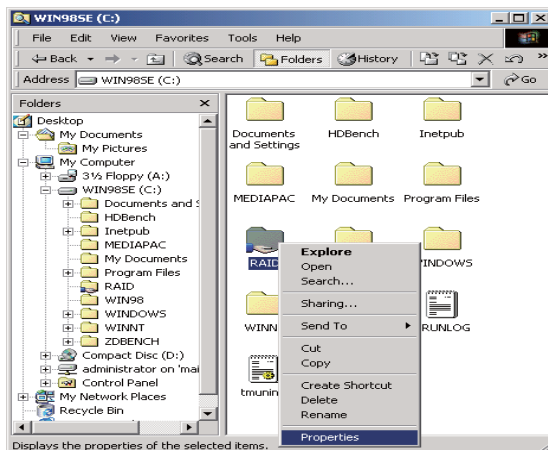


(Figure A-1.4)

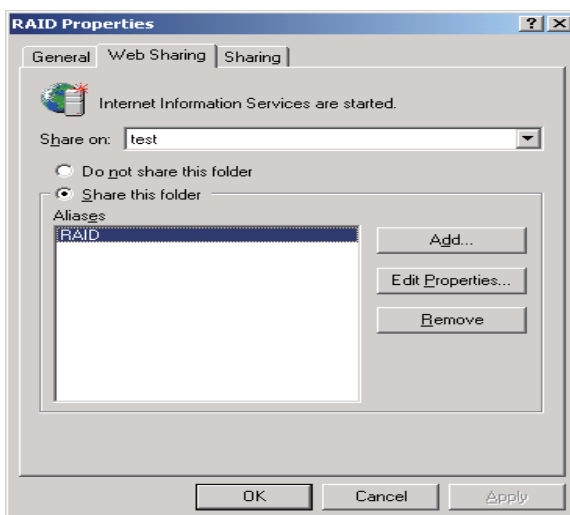
4.6.2 Setting up Accessible Folder in the Browser (for the Remote Function)

Method 1 : Windows Explore

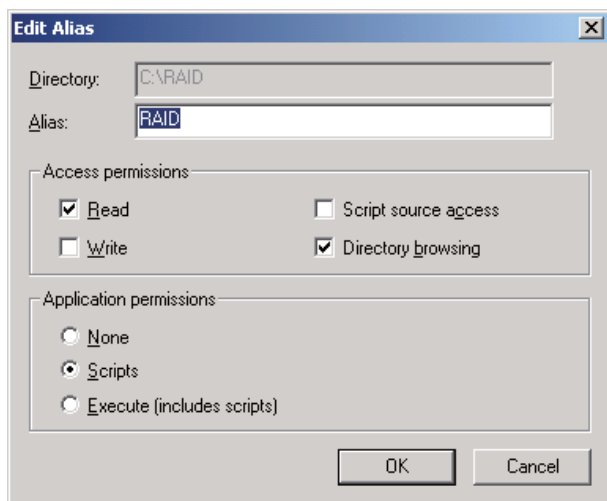
- (a). Select the folder to be shared and right-click the mouse to set the functions. (Refer to Figure A-2.1)
- (b). Select the [Share On] item on the Web Sharing page. Web server's home page will show up. (Refer to Figure A-2.2)
- (c). Verify the check box of [Share this folder].
- (d). Press [Edit Properties...] key to set folder's properties. (Refer to Figure A-2.3)
- (e). Edit [Alias] and verify the check boxes of [Read] and [Directory browsing].
- (f). Test folders within the web page browser. (Refer to Figure A-2.4)



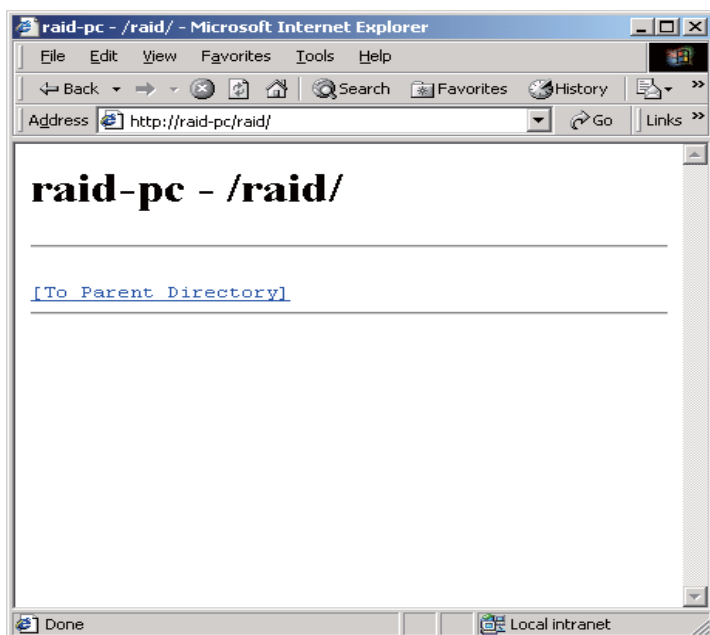
(Figure A-2.1)



(Figure A-2.2)



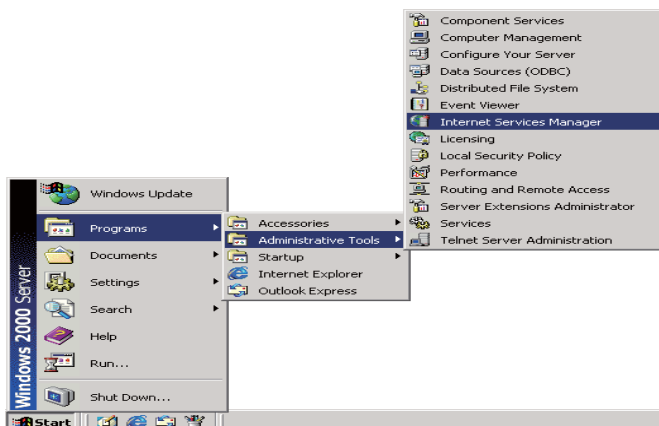
(Figure A-2.3)



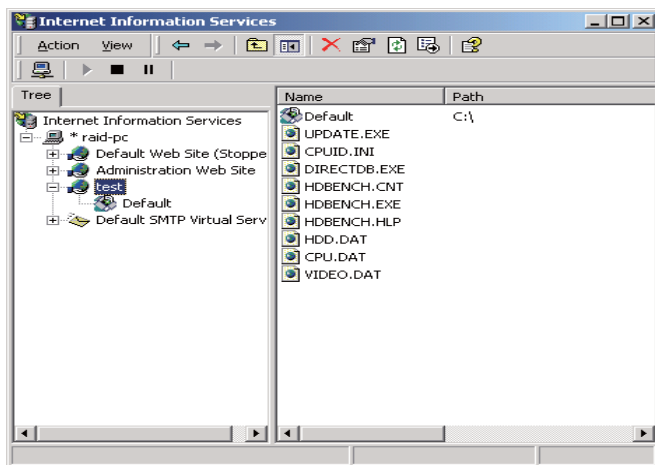
(Figure A-2.4)

Method 2 : Internet Service Manager

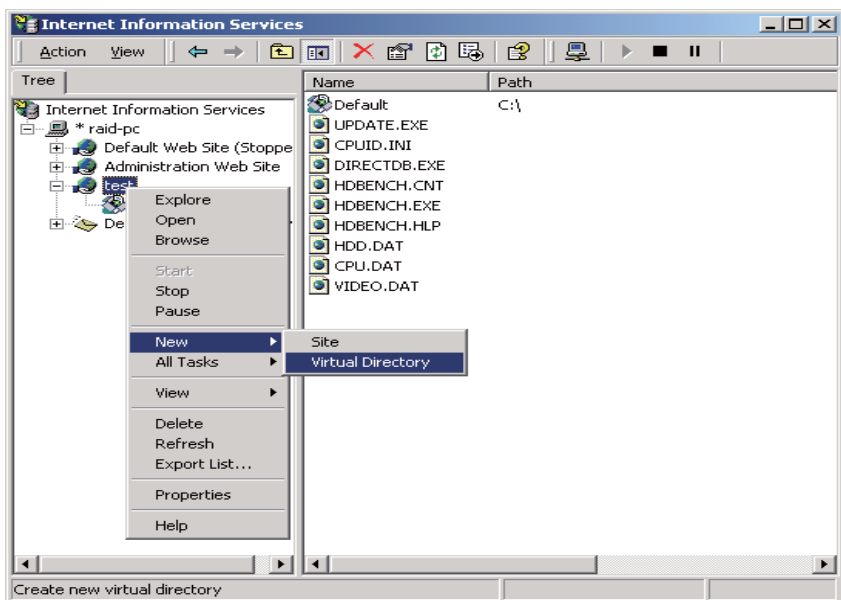
- (a). Select [Internet Services Manager]. (Refer to Figure A-2.5)
- (b). Execute [Internet Services Manager] and select the folder on the home page of web server. (Refer to Figure A-2.6)
- (c). Right-click the mouse to set up a new virtual directory. (Refer to Figure A-2.7)
- (d). This operation runs from Figure A-2.8 to Figure A-2.12. The directory of folder needs to be equivalent to that of the shared folder.
- (e). Close the setup window. The folder which is on the home page of web server will be added to the new folder. (Refer to Figure A-2.13)
- (f). Test folders within the web page browser. (Refer to Figure A-2.14)



(Figure A-2.5)



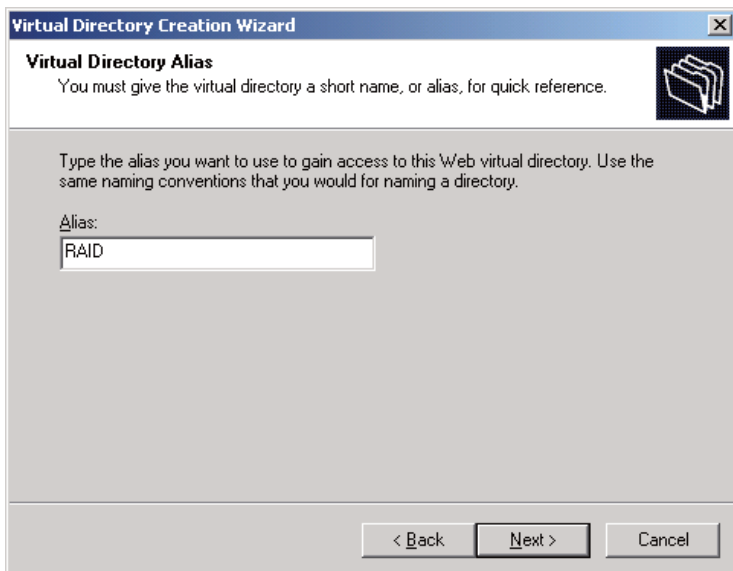
(Figure A-2.6)



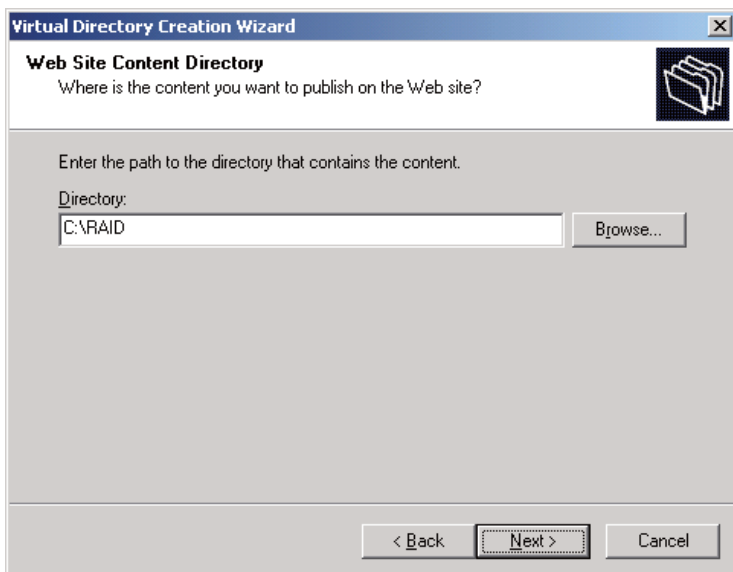
(Figure A-2.7)



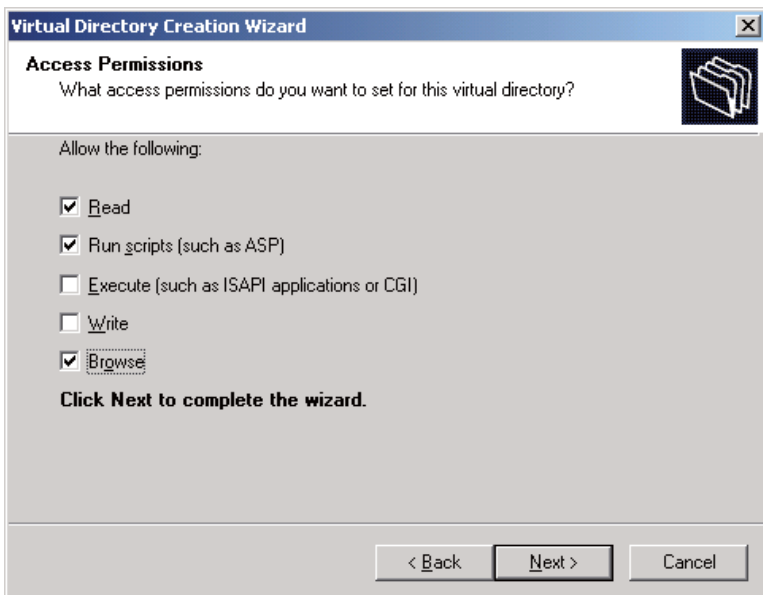
(Figure A-2.8)



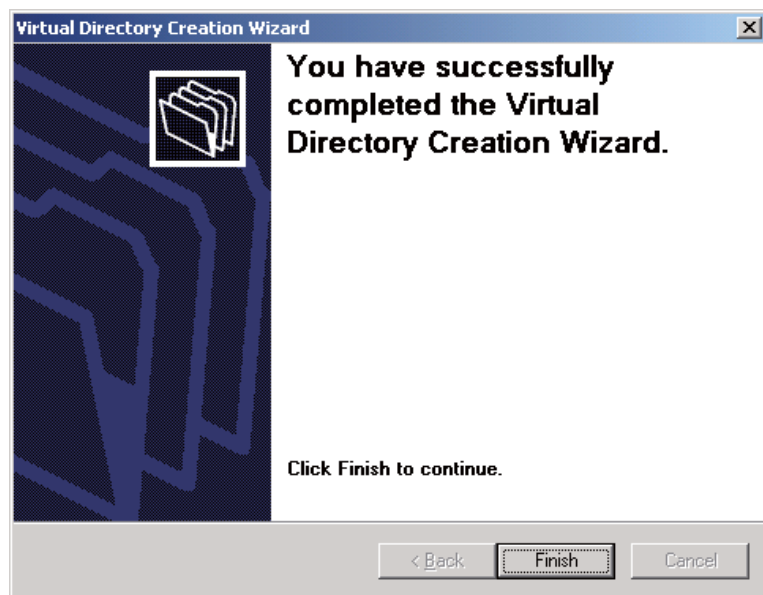
(Figure A-2.9)



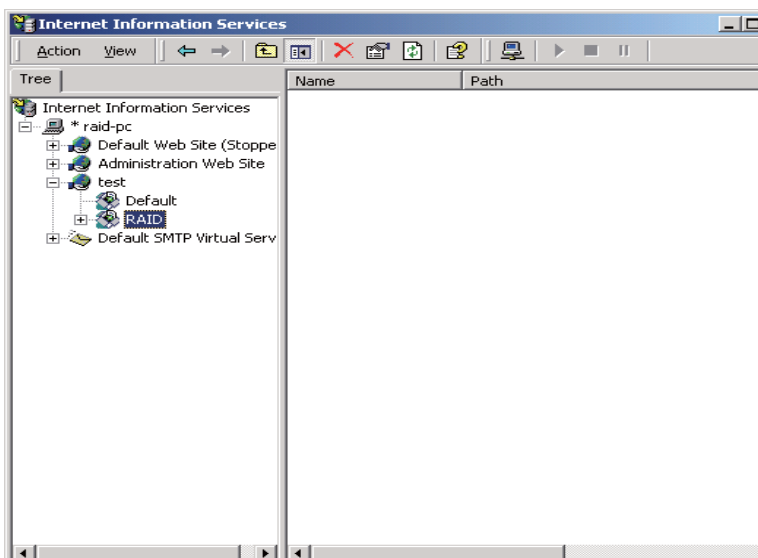
(Figure A-2.10)



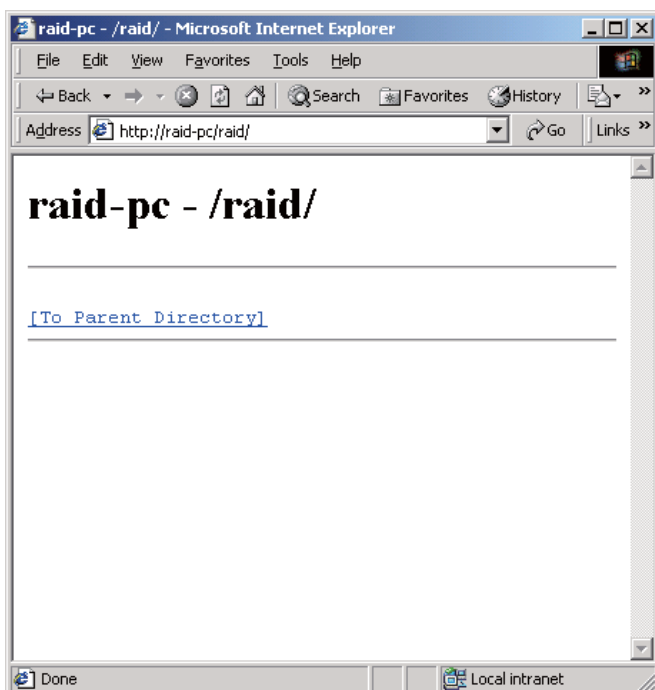
(Figure A-2.11)



(Figure A-2.12)



(Figure A-2.13)



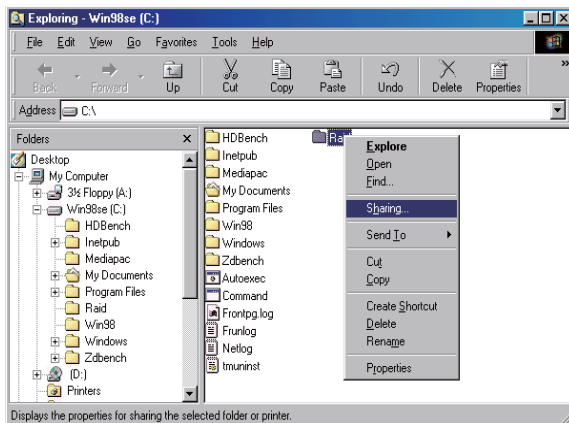
(Figure A-2.14)

4.6.3 Personal Web Server

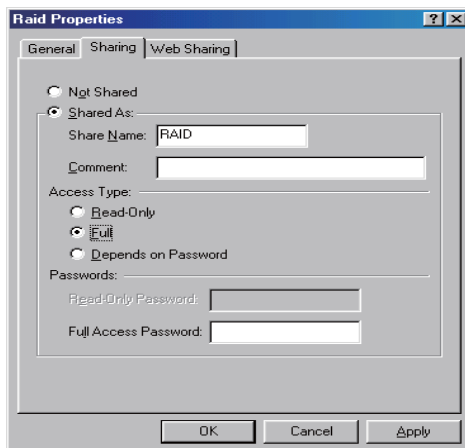
The RAID management supports upload (intranet) and remote (Internet) functions. If you want to use the remote function instead of a web server, you can use the [Personal Web Server] program. The procedures, which include [share folder] and [create virtual folder], are shown as follows:

Step 1 : Sharing Folders (for the Upload Function)

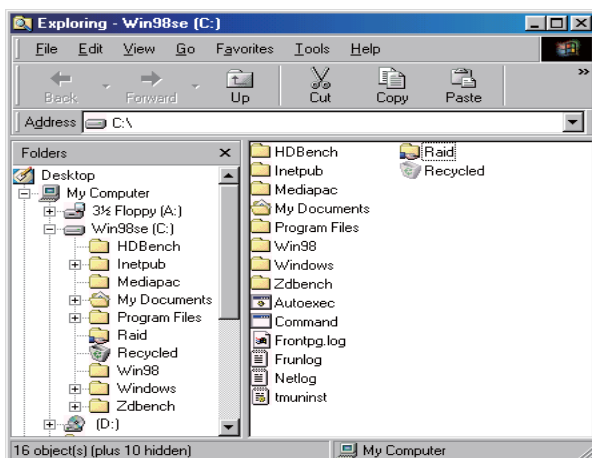
- Set up a new folder or select an existing folder. Right-click the mouse to share the folder. (Refer to Figure B-1.1)
- Select pages to be shared at the [Access Type] check box and verify the [Shared As] check box. Edit the Share Name and verify the [Full] item. (Refer to Figure B-1.2)
- The folder will change its image. (Refer to Figure B-1.3)
- The shared folder will allow other RAID systems to upload *.txt files.



[Figure B-1.1]



[Figure B-1.2]

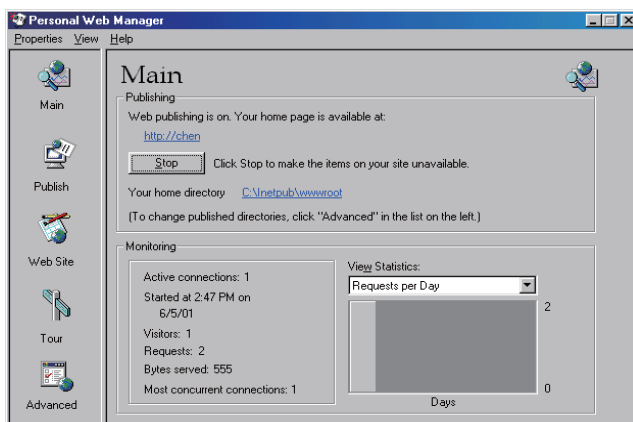


[Figure B-1.3]

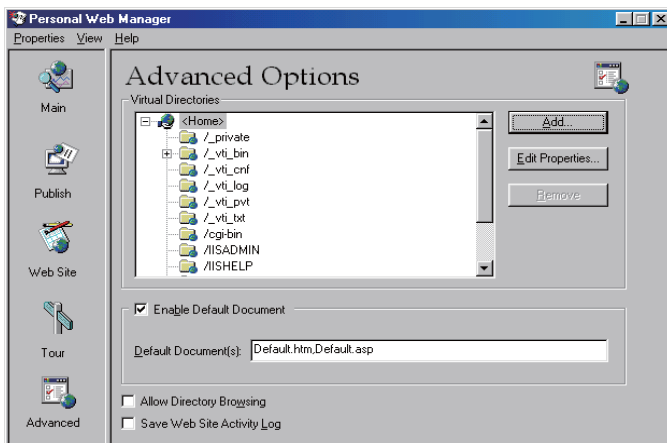
Step 2 : Set up Virtual Folder (for Remote Function)

- Please install the [Personal Web Server] (PWS) program in advance.
- Execute PWS. (Refer to Figure B-2.1)
- Click the [Advanced] icon at the lower left corner. (Refer to Figure B-2.2)
- Press [Add] key to set up a new virtual folder. Edit the directory of your abovementioned shared folder (B.1 Share Folder) and alias. (Refer to Figure B-2.3)
- Please verify the [Read] check box. See Figure B-2.3
- Verify the [Advanced] window which is added with the new folder. (Refer to Figure B-2.4)
- Please verify the [Allow Directory Browsing] check box, see Figure B-2.5, and close the PWS window.
- Test the virtual folder. (Refer to Figure B-2.6)
- At last, you can edit RAID to manage remote path, as Chen/raid, for example.

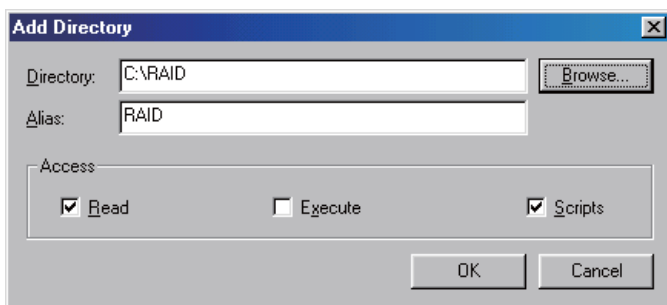
Notice : The directory of virtual folder has to be equivalent to that of the shared folder.



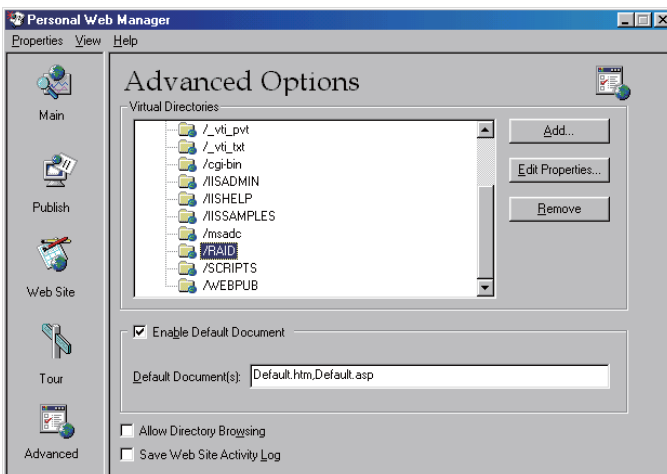
[Figure B-2.1]



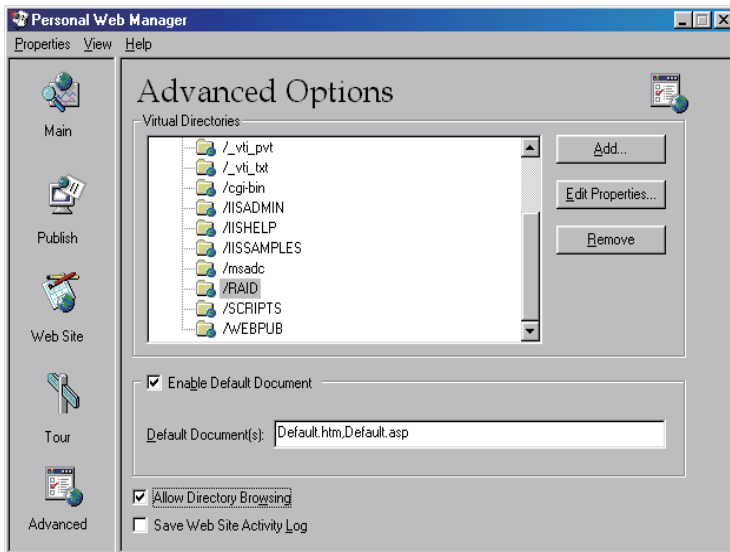
[Figure B-2.2]



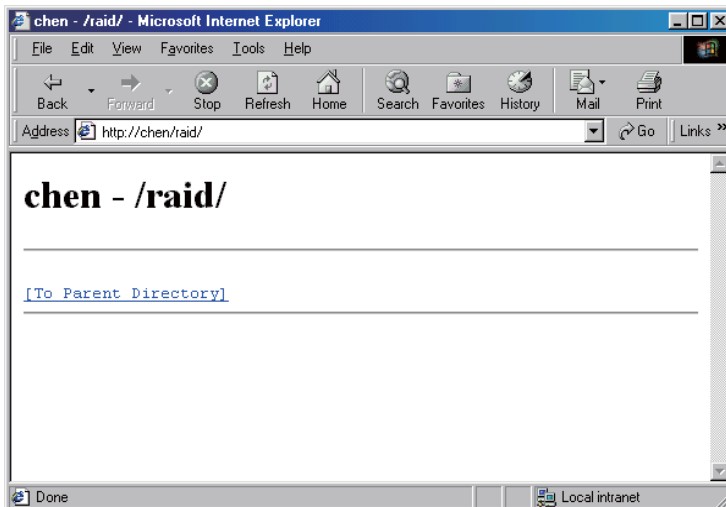
[Figure B-2.3]



[Figure B-2.4]



[Figure B-2.5]



[Figure B-2.6]

Memo

