STARDOM®
STORAGE SOLUTIONS

SOHORAID Series

SR5600-4S-WBS1
SR5600-4S-SB2
User Manual

Version : 3.0

Introduction

About this Manual

Thank you for using the product of RAIDON Technology Inc.
The SOHORAID 5600 series products will be introduced throughout this manual. It is recommended that you go through this manual before starting using the SOHORAID 5600 series products. Although the information has been verified before published, specifications are subject to change without prior notice. Please refer to ***http://www.startdom.com.tw/*** for any product specification or update of related information.

If you have any questions on STARDOM products or need the latest product information, user manual or firmware, please contact us at ***supporting@raidon.com.tw*** and we will get back to you as soon as possible.

Notice: RAIDON Technology Inc. only provides technical support and service to RAIDON 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 RAIDON, please do not contact us directly since you may not get any reply.

SR5600 Series Quick Installation Guide

1. Package Contents

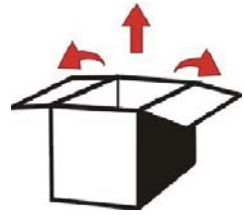
After you open the outer package, make sure that the following items are contained in the package:

Item \ Model	SB2	WBS1
SR5600 Series product body	•	•
AC Power cord	•	•
RS-232 cable	•	•
User Manual	•	•
CD	•	•
Accessories kit	•	•
USB2.0 cable	•	•
SATA cable	•	•
1394b cable		•

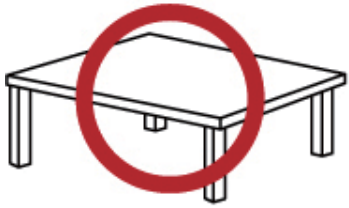
2. Hardware Installation

Please follow the procedure below to complete the hardware installation of SR5600 Series:

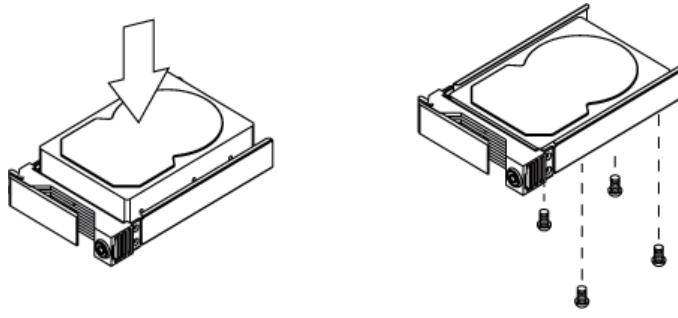
Step 1 Open the outer package and take out the product body. (Make sure the related accessories and the product body are not damaged or missing. If you have any questions, contact the distributor or sales)



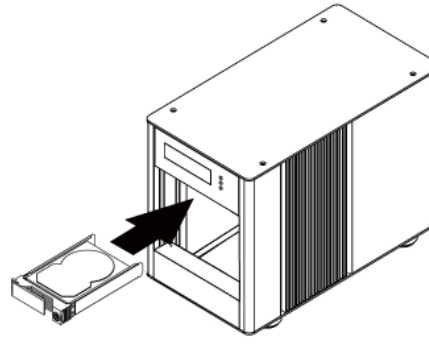
Step 2 Mount the product to a stable surface. Make sure that the fan is not blocked and there is appropriate space around for heat dissipation. (Do not place the product nearby water area or any environment that may cause damage to the product)



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 of hard disk is completed, insert the tray back and fix it firmly in the proper place.



Step 5 Selecting the RAID 0 or the RAID 0+1 mode. The factory default value is RAID 0.

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.

Installation completed. Your operating system will automatically recognize the hardware. Once recognized, you will be able to use it.

Contents

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.

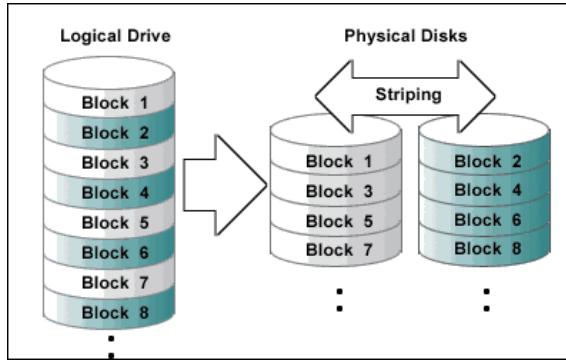
In summary, RAID technology increases the performance and data security in network system architecture.

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. RAID 0+1

SOHORAID 5600 Series provides two level applications: RAID 0 and RAID 0+1:
RAID 0 : Striping (fast, has no fault tolerance; requires at least two hard disks)



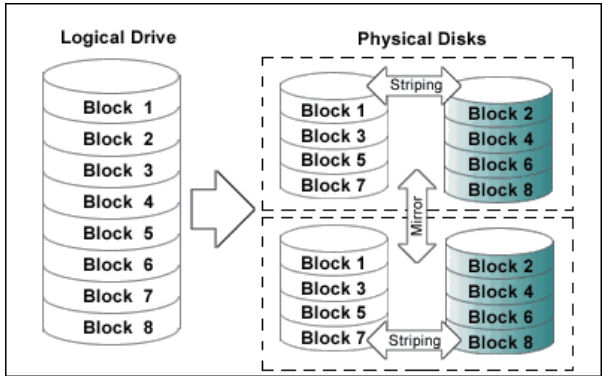
The arraying method of RAID 0 hard disks is to use part of array storage capacity to store messages. If one of the hard disks in the array fails, such messages will be able to restore the user's data. According to different types of arrays, the virtual hard disk has the advantages of fault tolerance, cost, efficiency or the combination of the said factors.

In the RAID 0 array, the data of the hard disks in the entire array is separated or disassembled. For a server concerned, the array is considered as a large hard disk of which the capacity is approximately equal to the sum of all physical disks' capacity. Because multiple read/write can be operated simultaneously, the import/export efficiency of the array is much better than that of a single physical disk.

The RAID 0 array does not backup data, so it is not regarded as a real RAID application. If one of the hard disks is damaged, the entire array will fail, and all data in the array will be lost. Therefore, the fault tolerance of RAID 0 is lower than that of any hard disk in the array. However, RAID 0 is still the term widely used to describe these arrays. It is because that its basic idea is similar to real RAID application.

Notice : SR5600 Series will set 4 hard disks as a Logical Drive. In the RAID0 Model, the system requires at least 4 hard disks to work. If you just put 2 hard disks in, the system will show as failed.

RAID(0+1) : Striping with Mirroring (requires as least four hard disks)



RAID (0+1) is developed by integrating the functions of RAID 0 and RAID 1. In RAID (0+1) system, two hard disks are regarded as a set, and each set of hard disks should be compliant with the specifications of RAID 1 to ensure data security. In addition, RAID 0 rules should be observed among different sets of hard disks in order to increase the read/write speed of the hard disks. Although RAID (0+1) has both features of read/write speed increase and fault tolerance at the same time, the necessary cost relatively increases due to the availability of only half of the hard disks' space.

For more information of RAID, refer to our website at ***www.stardom.com.tw***

Chapter 2 Installation

2.1 Features

With individual microprocessor hardware RAID design, SR5600 is the most economic and beneficial choice for you to expand capacity that assure the data security and does not reduce system efficiency. The SOHORAID 5600 series supports four large-capacity SATA hard disks. With the total storage capacity up to 2TB and the maximum transfer speed at 150MB/Sec.

SOHORAID 5600 Series comes with the following features:
- Plug & play: Designing for removable, easy installation and maintenance.
- Independent OS, Easy Installation: Compatible with all systems.
- LCD Screen: Provides HDD status, Fan status, and temperature status.
- RAIDGuide GUI software: Supports windows-based GUI software to monitor all status of the system.

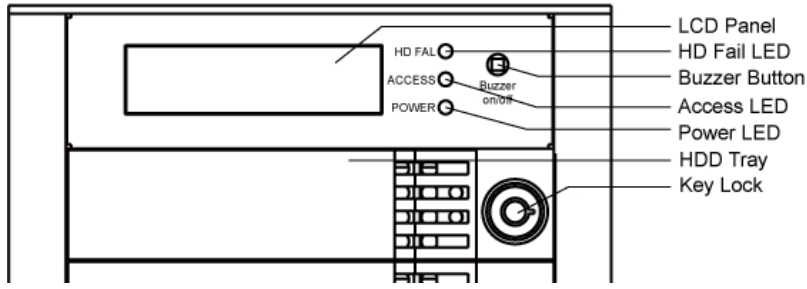
2.2 Accessories Check

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

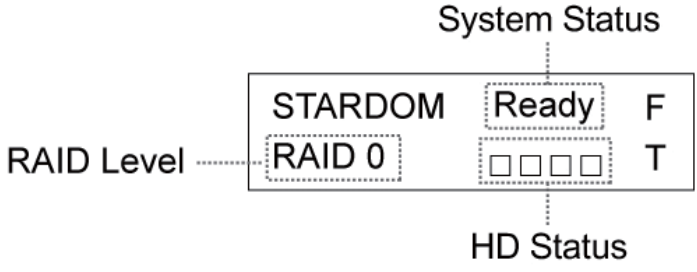
Item \ Model	SB2	WBS1
SR5600 Series product body	●	●
AC Power cord	●	●
RS-232 cable	●	●
User Manual	●	●
CD	●	●
Accessories kit	●	●
USB2.0 cable	●	●
SATA cable	●	●
1394b cable		●

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



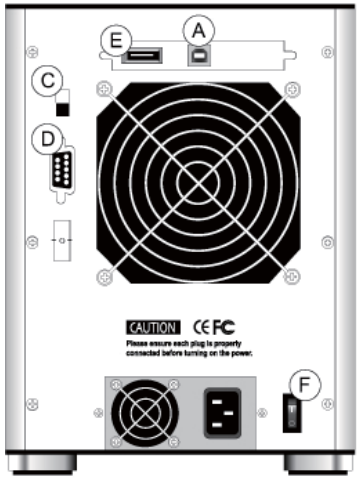
LCD Display Illustration



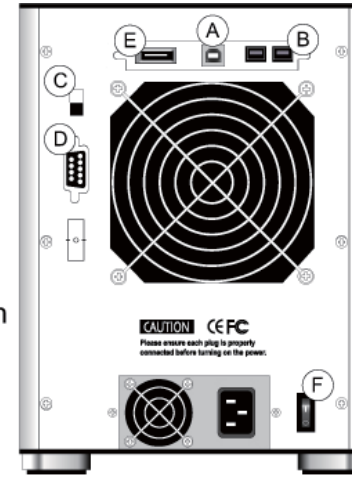
Hard Disk Status display Illustration

Display	Meaning
O	HDD is OK
X	HDD is Fail
+	HDD is Rebuilding
-	HDD is Off
B	HDD has bad block sector
F	Fan Failed
T	Temperature overheat

Rear View



A：USB Port
B：1394b Port
C：RAID Switch
D：RS232 Port
E：eSATA Port
F：Power Switch



SR5600-4S-SB2

SR5600-4S-WBS1

2.3 Hardware Installation

Please follow the following procedures to complete the hardware installation of SR5600 Series:

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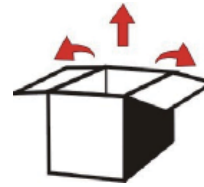
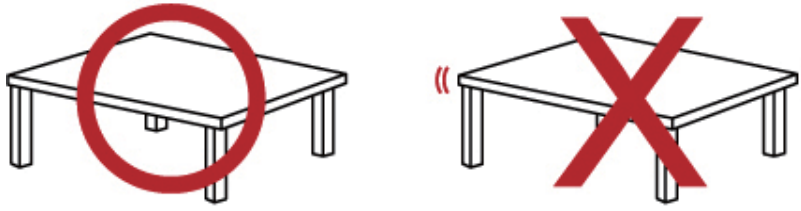
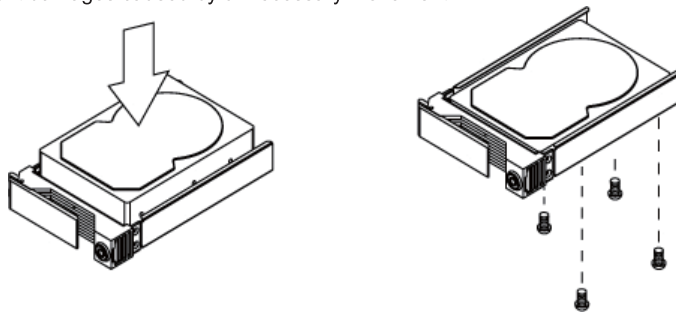


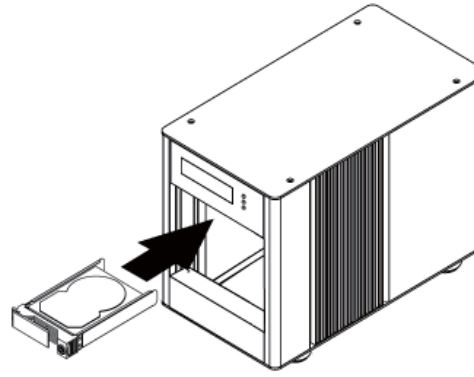
Step 2 Mount the product to a stable surface. Make sure that the fan is not blocked and there is appropriate space around for heat dissipation. (Do not place the product nearby water area or any environment that may cause damage to the product)



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 of hard disk is completed, insert the tray back and fix it firmly in the proper place.



Step 5 Selecting the RAID 0 or the RAID 0+1 mode. The factory default value is RAID 0.

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.

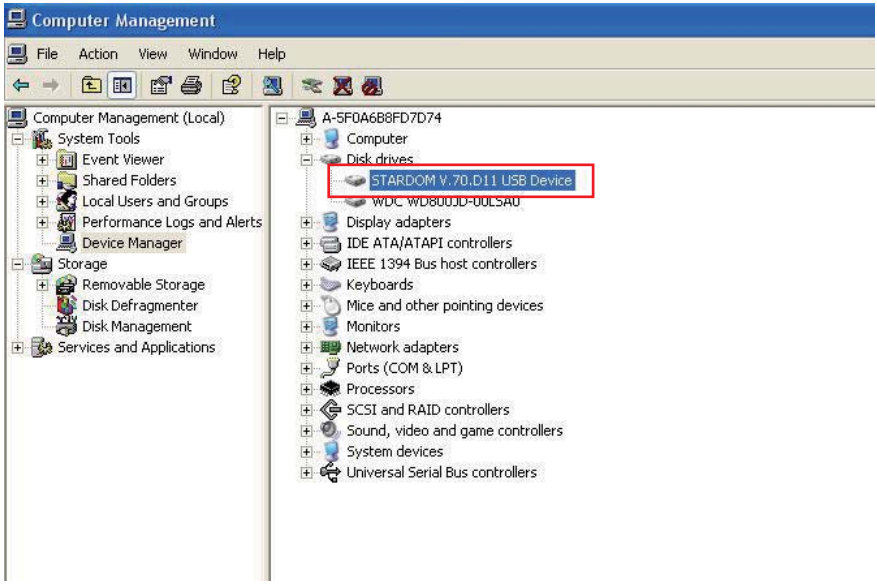
Installation completed. Your operating system will automatically recognize the hardware. Once recognized, you will be able to use it.

2.4 Formatting the HD

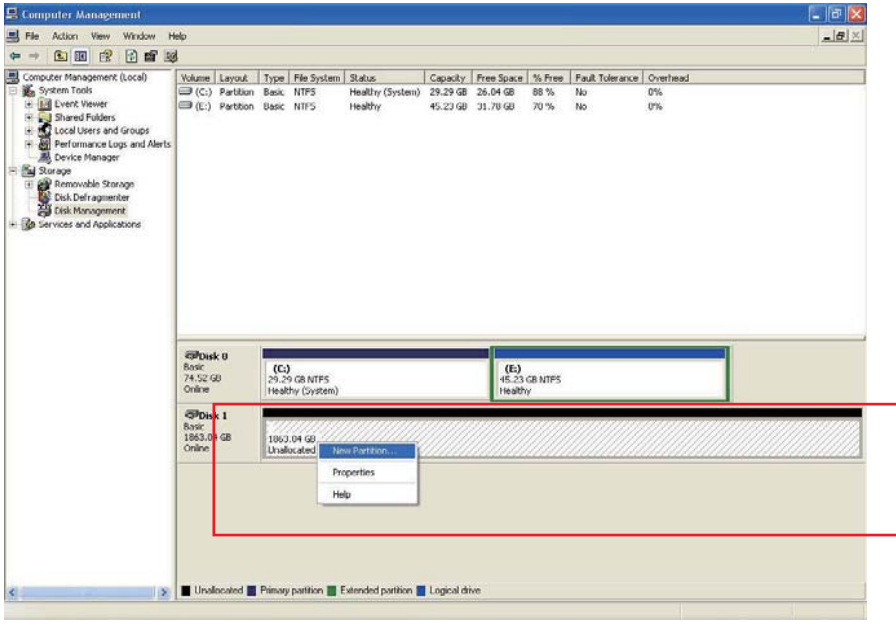
After you properly complete the hardware installation and turn on your PC, the operating system will automatically recognize your HD. You will have to format the HD before storing data in it. Please follow the following procedures to format the HD if you using Windows.

Step 1 After the computer boots properly, the system will conduct auto-detecting. Once the detection is completed, the following figure will show up.

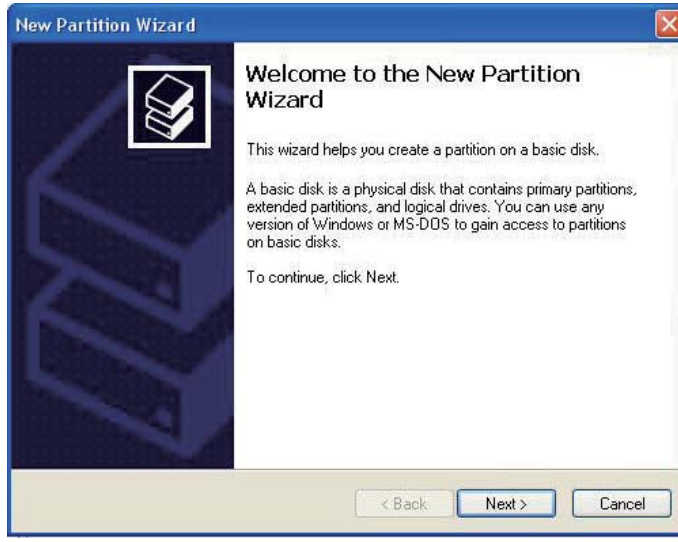
Step 2 Please enter the “Device Manager”, and you will see the newly added HD.



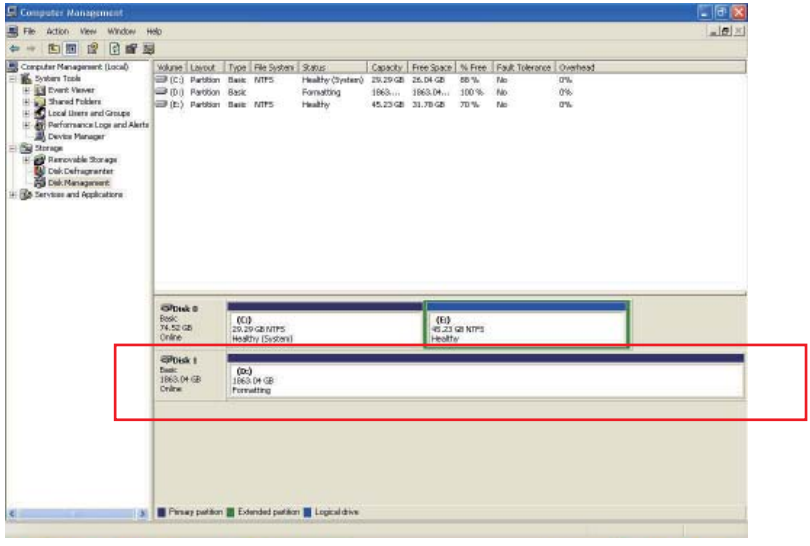
Step 3 Enter the “Disk Management” and select the newly added HD, and start “initializing” the HD. After the initialization is done, you can “format” the HD as a described one according to your preference or need.



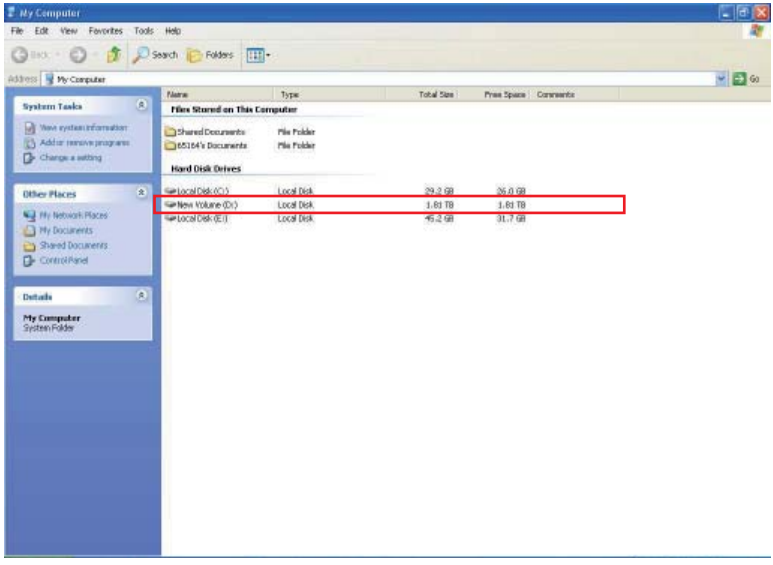
Step 4 After you have selected “New Partition..”, the system will pop up the related window to guide you through the formatting of the HD. You only need to select and complete in order.



Step 5 After you have set up the format and partition of the HD that you desired, the system will automatically start the formatting.



Step 6 Once the formatting is completed, the window will display the current status of the HD. “My Computer” will also show one newly added HD.

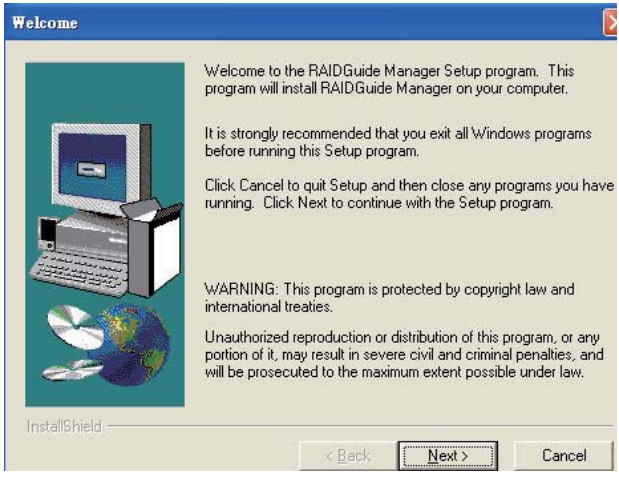


Step 7 Installation completed. You can now start to use your newly added HD.

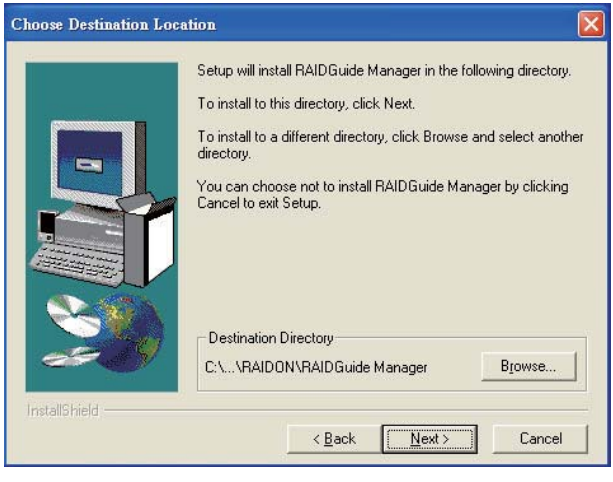
2.5 Software Installation

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.

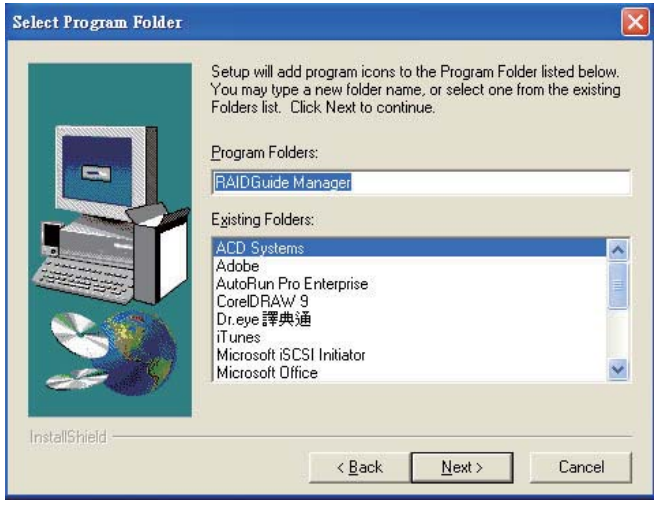
To install RAIDGuide Management, please follow the following procedures:
Step 1 Executing the RAIDGuide Management installation file; the welcome screen will be displayed.



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 3 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.

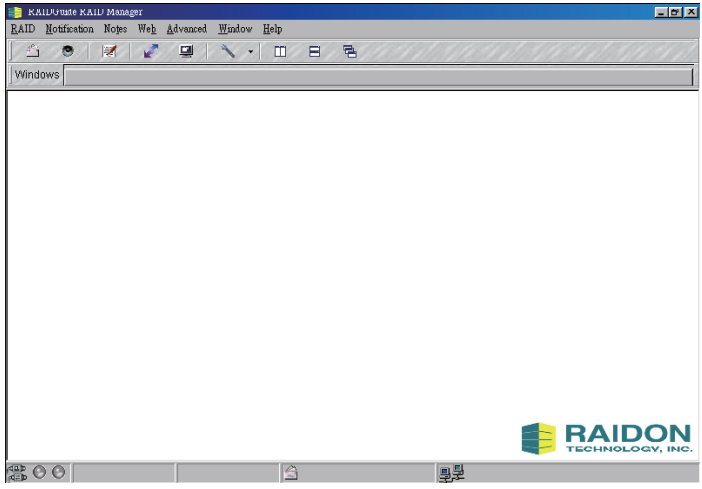
Features:

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

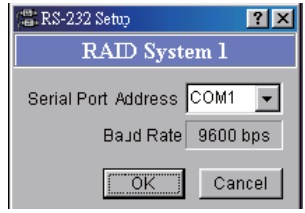
After the software being installed, select [RAIDGuide RAID MANAGER]; the program will start and the main window will pop up, as the following figure shows. Select [connection line] from the RAID function list at the top of the window, and then start to execute the program. Select the Help function to learn more about the operational procedures. Please refer to section 2.5 for installation procedures

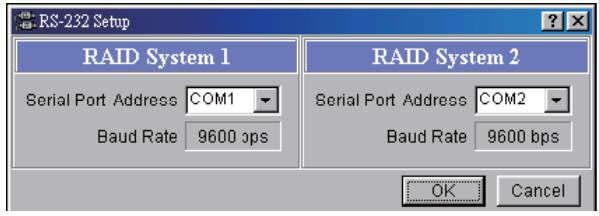


3.1 Connecting the RAID system

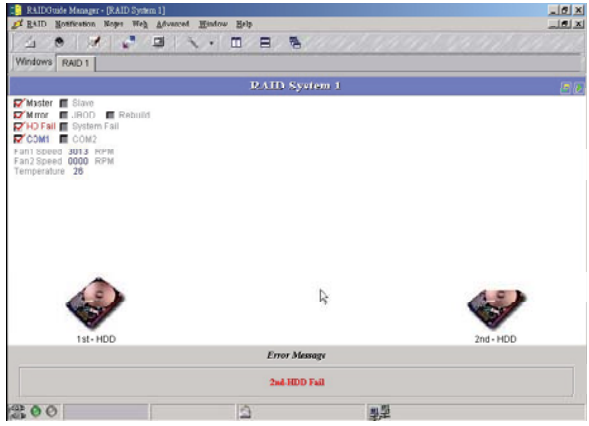
Through PC serial port, the program receives the RAID system information and displays it on the screen. The information includes system modes, hard disk damages, system damages and the process of rebuilding.
Connect:

- 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.

3.2 Notification

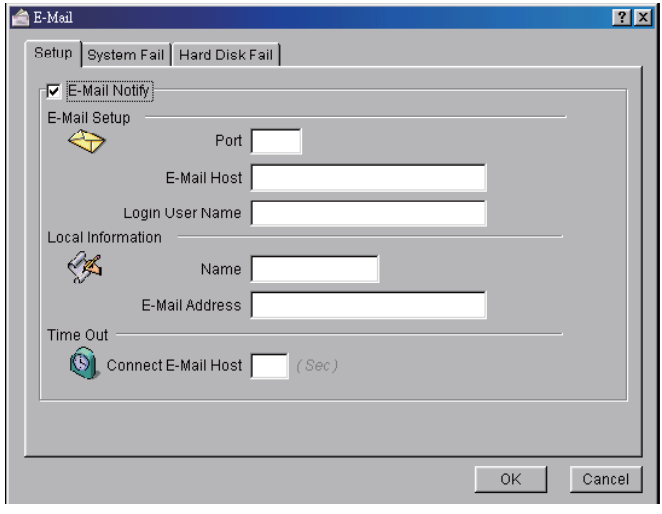
3.2.1 E-Mail

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.



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.

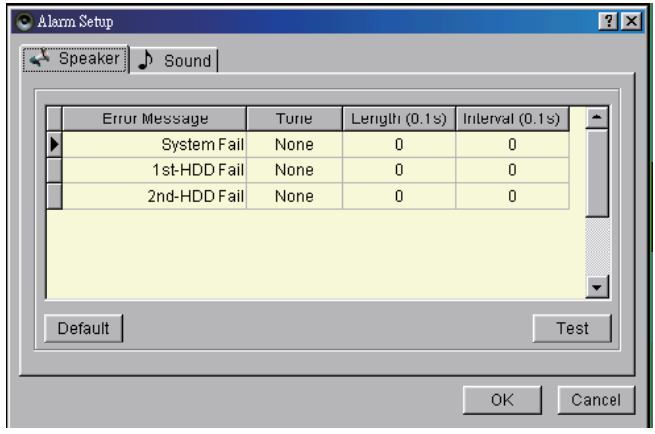
Notice : • The program will automatically add information of hard disk/system malfunction to the front-end content of the e-mail.
• If you want to execute the e-mail notification function, remember to view the check box on the [Setup] page.
• If you have executed the e-mail notification function and 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.

3.2.2 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 [Lenghth] 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.

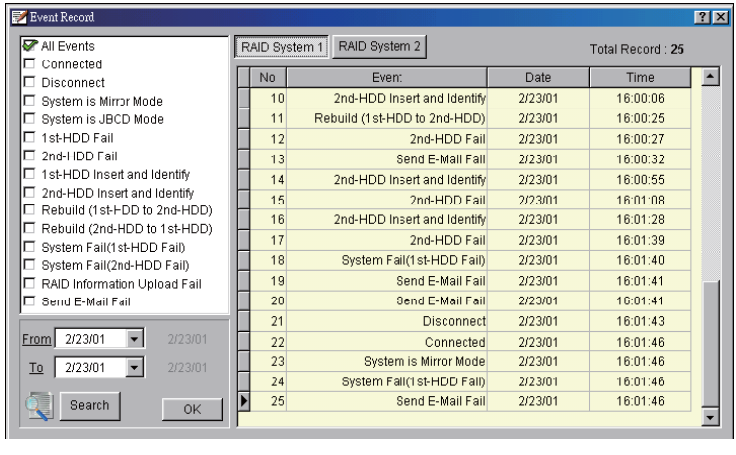
Notice : • [Error Message] and [Length] are not editable.
• Use [Default] key to set for all as follows: File = None, Length = 0 sec., and Interval = 0 sec.
• To stop the function of single sound alarm, first select [File] for single alarm, clear the content, and then press [Enter] key. [Length] and [Interval] will be set to 0 automatically.

3.3 Even 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
- RAID Information Upload Fail
- Rebuild (1st-HDD to 2nd-HDD)
- Rebuild (2nd-HDD to 1st-HDD)
- System Fail (1st-HDD Fail)
- System Fail (2nd-HDD Fail)
- Send E-Mail Fail
- Temperature
- Fan1 Speed

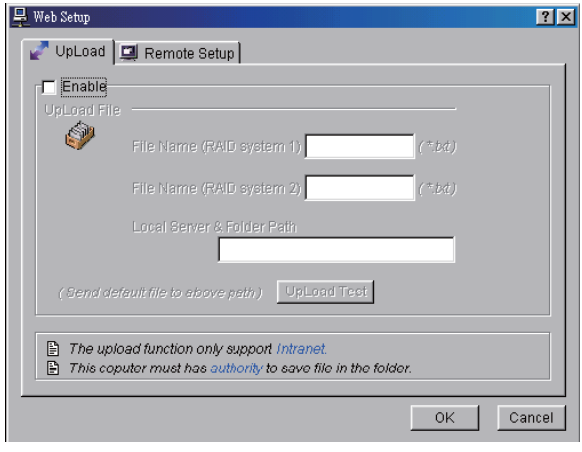


3.4 Web

3.4.1 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.



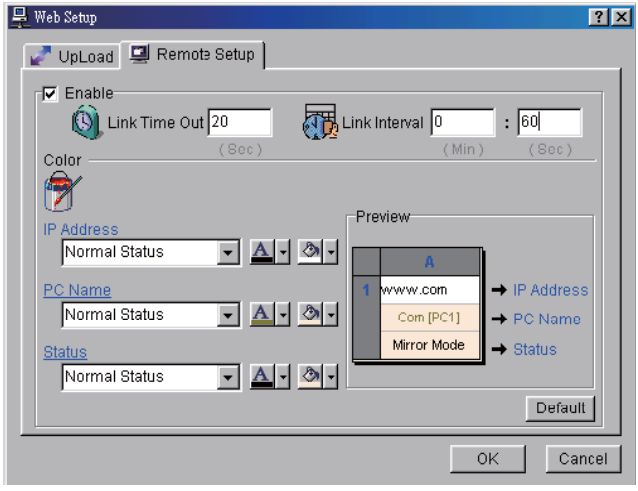
Usage: Select the [Web] menu and the [Upload] sub-menu.
• Verify [Check Box].
• Edit the upload file name of local RAID system1/RAID system2. For example: (*.txt).
• Edit the upload path for local web server.
• You can press [Upload Test] key to test upload path and permission. The program will also 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 .

3.4.2 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.

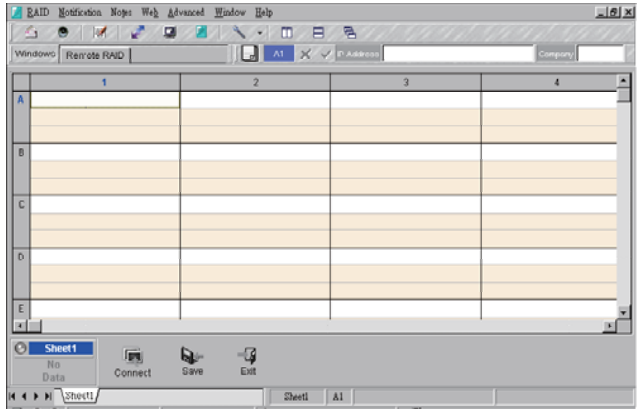
Notice : ・If you are unable to select the aforementioned key, you can press the [Remote Setup] check box to activate multi-remote window.

3.4.3 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.

3.5 Advanced

3.5.1 Options

Using the program options to set detailed variables.

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

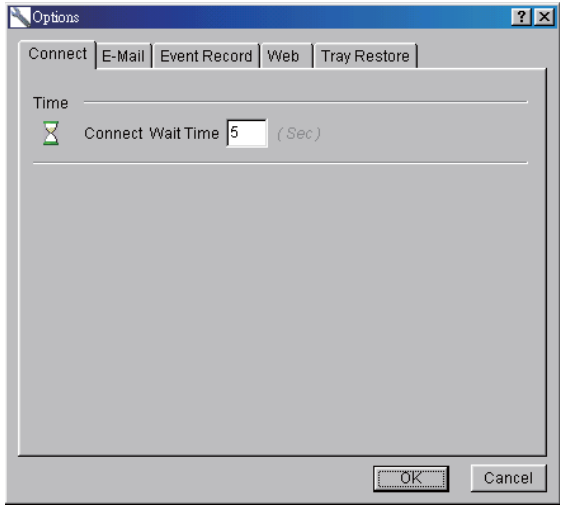
Notice : • Need to set values for the blanks.

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 Record:
• 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.

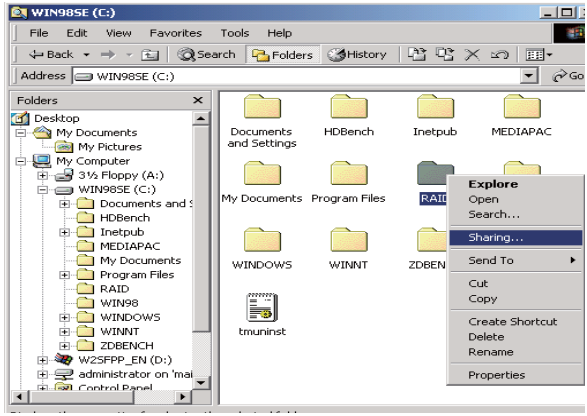


3.6 Sharing the Folder of Web Server (take Windows 2000 Server for example)

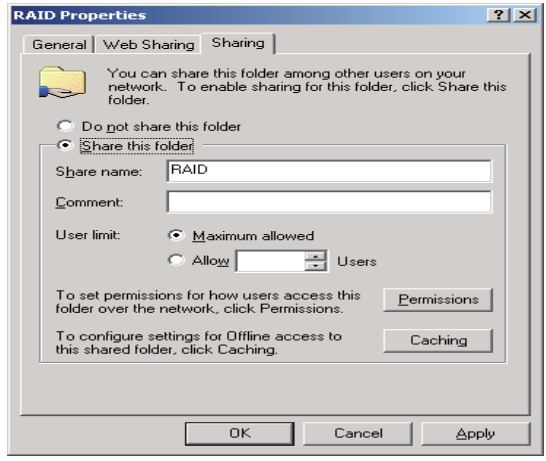
The RAID management supports upload (intranet) and remote (Internet) functions. Therefore you have to share one folder in order to allow other RAID systems to upload *.txt files.
Other than sharing folders, you also need to set up accessible folders in web browser. There are two methods to set up computer-accessible folders of web server. One method is to utilize Internet Service Manager, and the other is to use Windows Explore.

3.6.1 Sharing Folders (for the Upload Function)

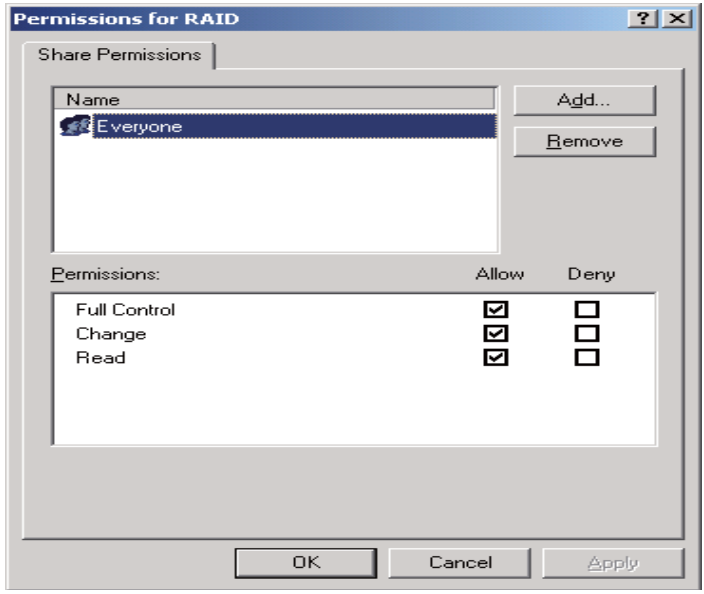
(a). Execute the Windows Explore and right-click the mouse to share folders. (Refer to Figure A-1.1)
(b). Editing [Share Name]. See Figure A-1.2.
(c). Press [Permissions] key to set up folders to be allowed for sharing. (Refer to Figure A-1.3)
(d). The folder changes its image. (Refer to Figure A-1.4)



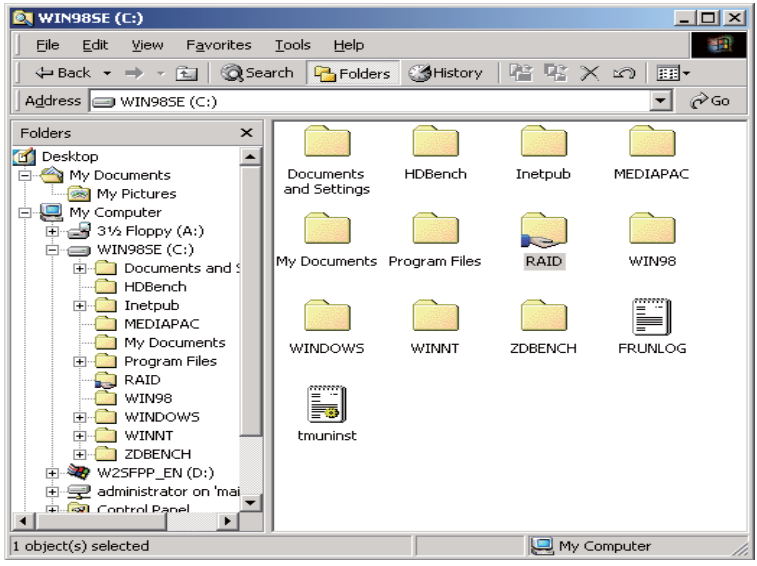
(Figure A-1.1)



(Figure A-1.2)



(Figure A-1.3)



(Figure A-1.4)

3.6.2 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)

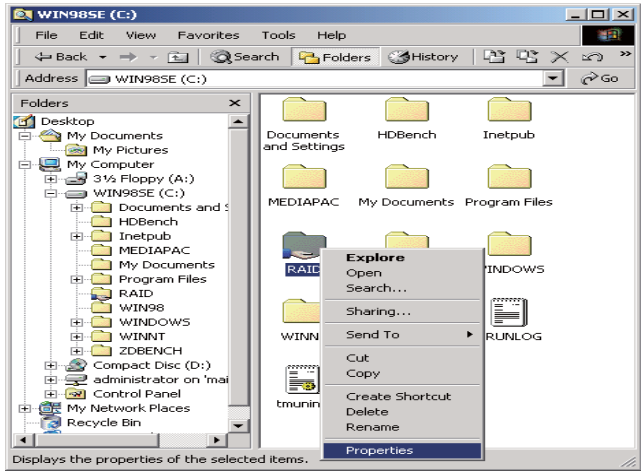
(b). Select the [Share On] item on the Web Sharing page. Web server's home page will show up. (Refer to Figure A-2.2)

(c). Verify the check box of [Share this folder].

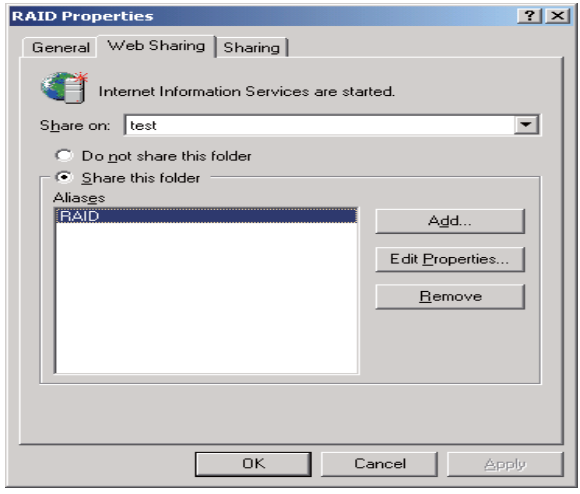
(d). Press [Edit Properties…] key to set folder's properties. (Refer to Figure A-2.3)

(e). Edit [Alias] and verify the check boxes of [Read] and [Directory browsing].

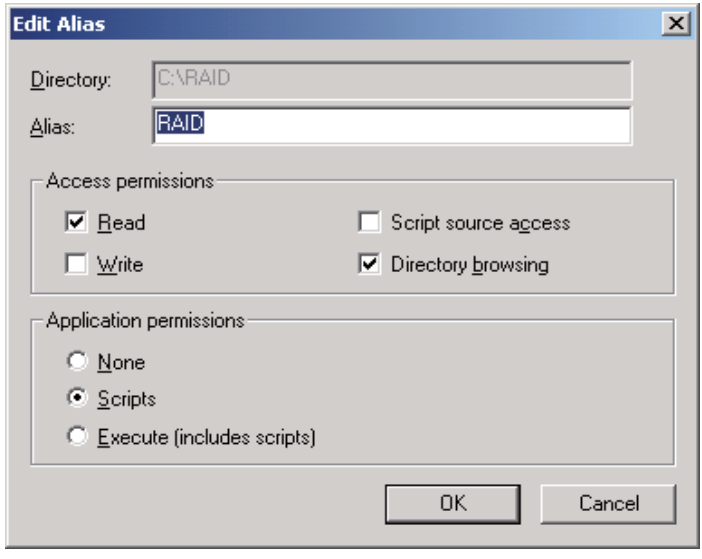
(f). Test folders within the web page browser. (Refer to Figure A-2.4)



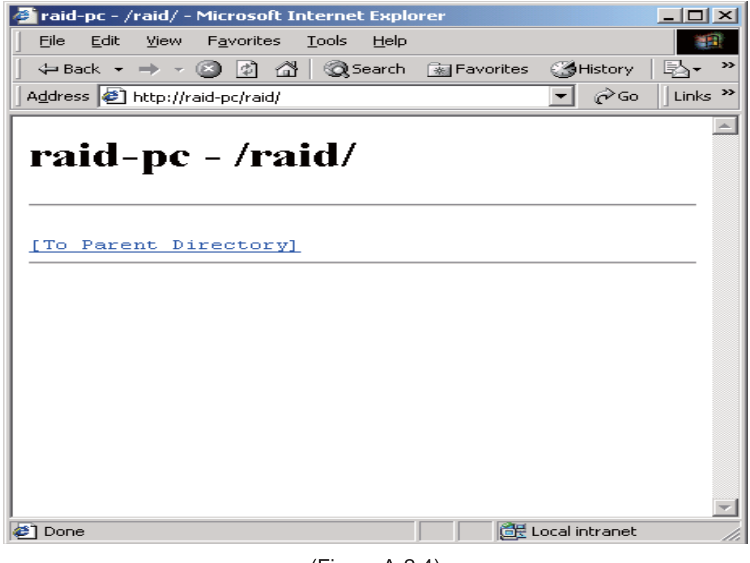
(Figure A-2.1)



(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)

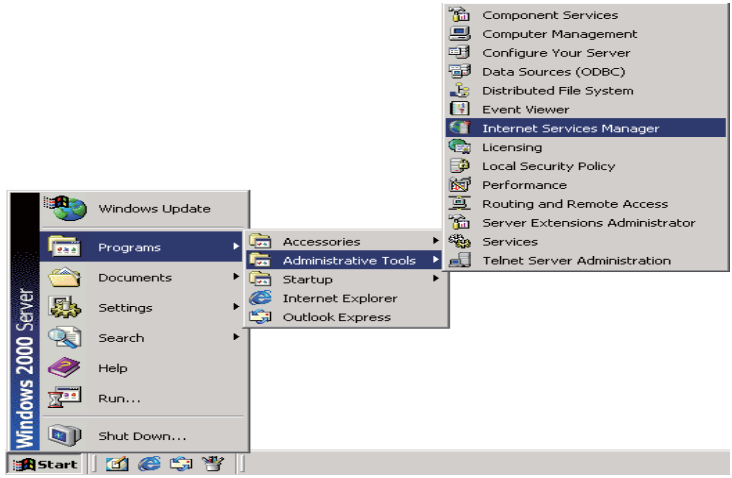
(b). Execute [Internet Services Manager] and select the folder on the home page of web server. (Refer to Figure A-2.6)

(c). Right-click the mouse to set up a new virtual directory. (Refer to Figure A-2.7)

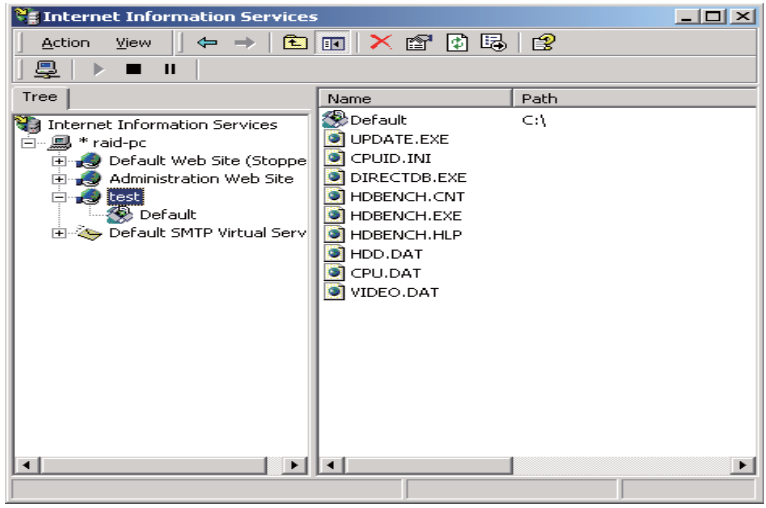
(d). This operation runs from Figure A-2.8 to Figure A-2.12. The directory of folder needs to be equivalent to that of the shared folder.

(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)

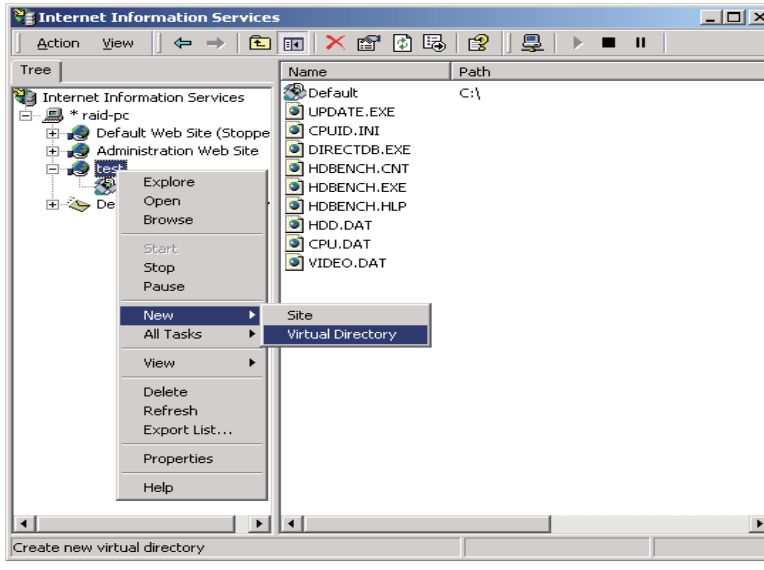
(f). Test folders within the web page browser. (Refer to Figure A-2.14)



(Figure A-2.5)

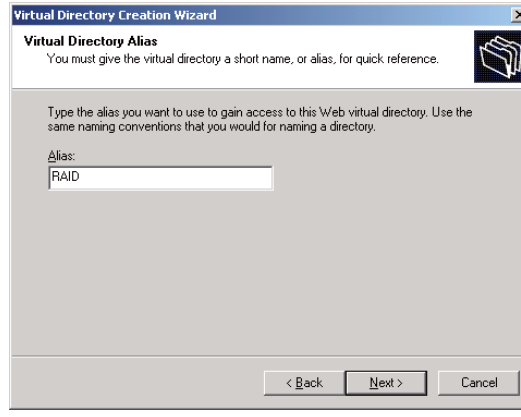


(Figure A-2.6)

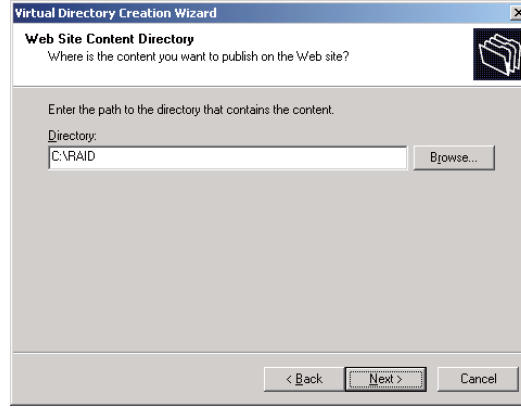


(Figure A-2.7)

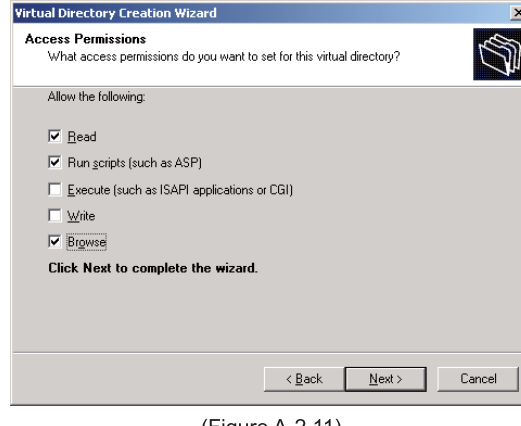
(Figure A-2.8)



(Figure A-2.9)

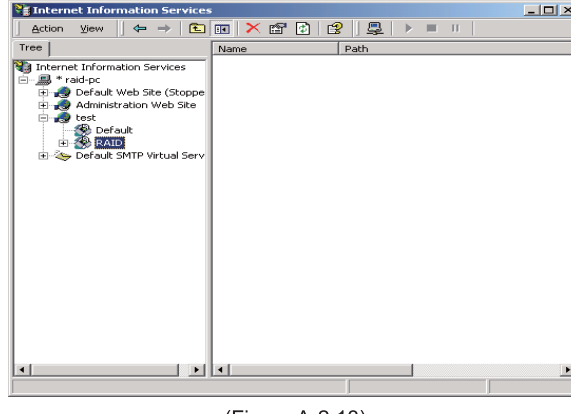


(Figure A-2.10)

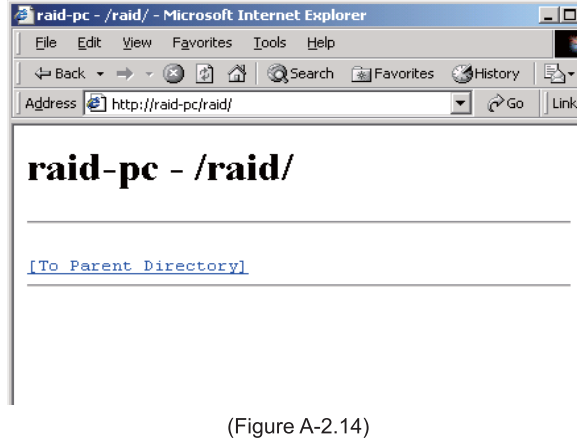


(Figure A-2.11)

(Figure A-2.12)



(Figure A-2.13)



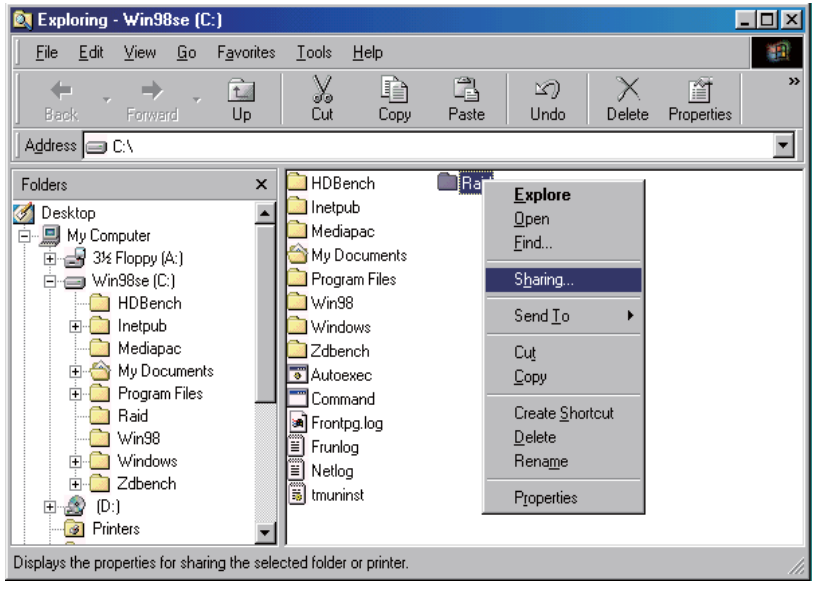
(Figure A-2.14)

3.6.3 Personal Web Server

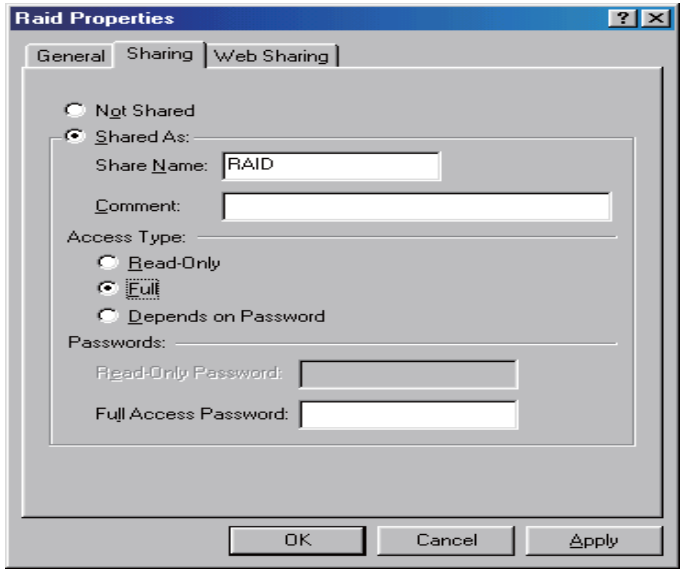
The RAID management supports upload (intranet) and remote (Internet) functions. If you want to use the remote function instead of a web server, you can use the [Personal Web Server] program. The procedures, which include [share folder] and [create virtual folder], are shown as follows:

Step 1 Sharing Folders (for the Upload Function)

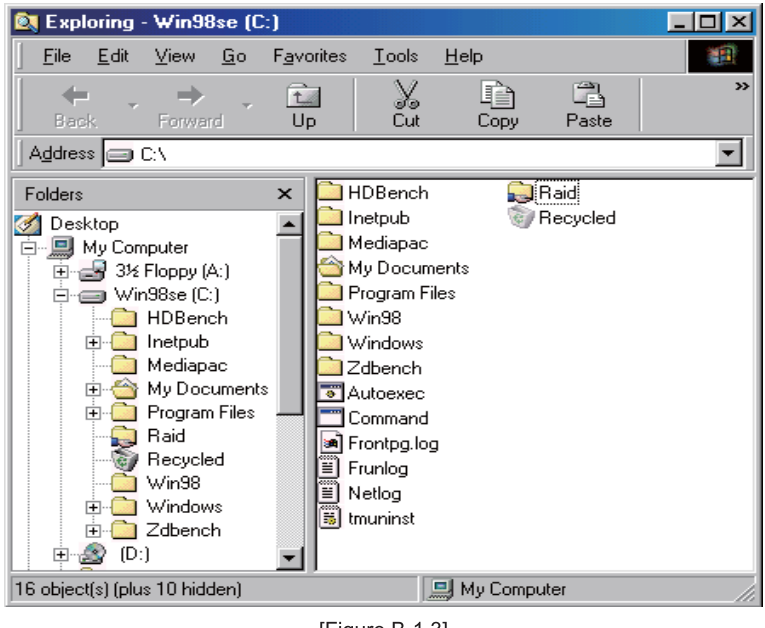
(a). Set up a new folder or select an existing folder. Right-click the mouse to share the folder. (Refer to Figure B-1.1)
(b). Select pages to be shared at the [Access Type] check box and verify the [Shared As] check box. Edit the Share Name and verify the [Full] item. (Refer to Figure B-1.2)
(c). The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



[Figure B-1.1]



[Figure B-1.2]

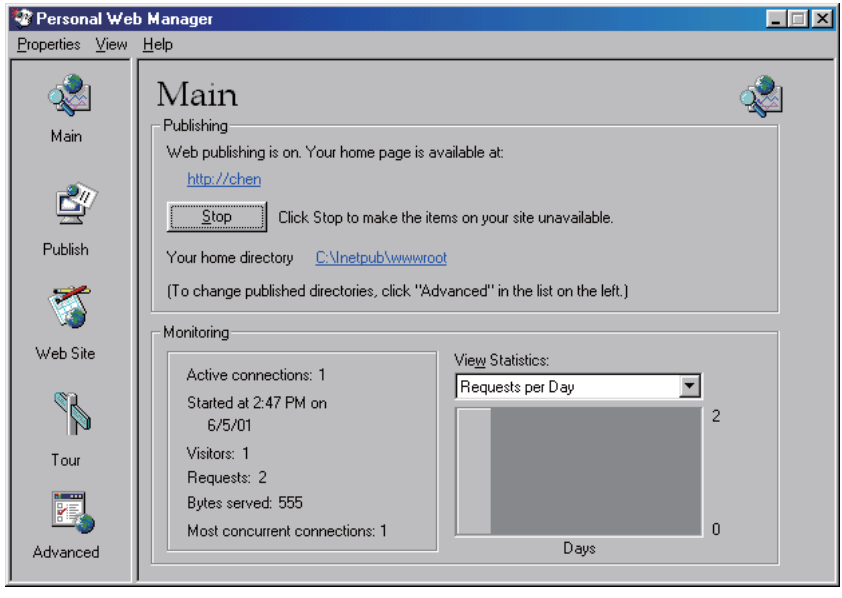


[Figure B-1.3]

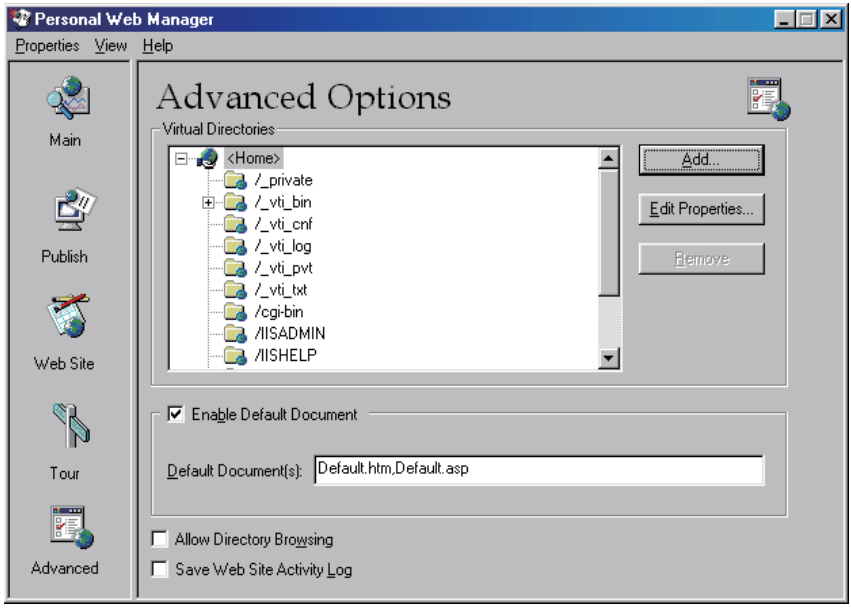
Step 2 Set up Virtual Folder (for Remote Function)

(a). Please install the [Personal Web Server] (PWS) program in advance.
(b). Execute PWS. (Refer to Figure B-2.1)
(c). Click the [Advanced] icon at the lower left corner. (Refer to Figure B-2.2)
(d). 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)
(e). Please verufy the [Read] check box. See Figure B-2.3
(f). Verify the [Advanced] window which is added with the new folder. (Refer to Figure B-2.4)
(g). Please verify the [Allow Directory Browsing] check box, see Figure B-2.5, and close the PWS window.
(h). Test the virtual folder. (Refer to Figure B-2.6)
(i). At last, you can edit RAID to manage remote path, as Chen/raid, for example.

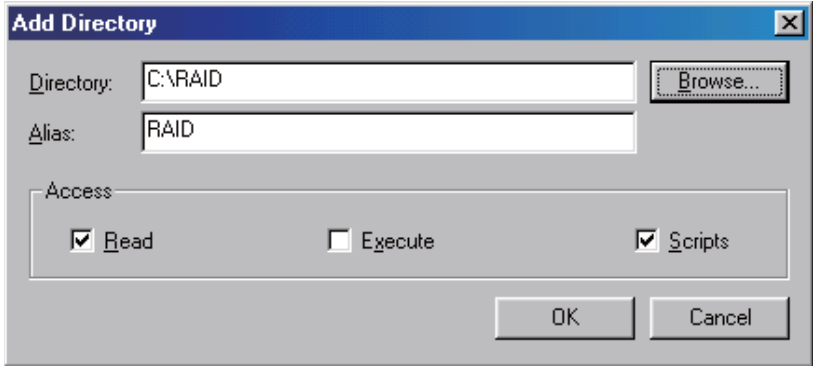
Notice : ・The directory of virtual folder has to be equivalent to that of the shared folder.



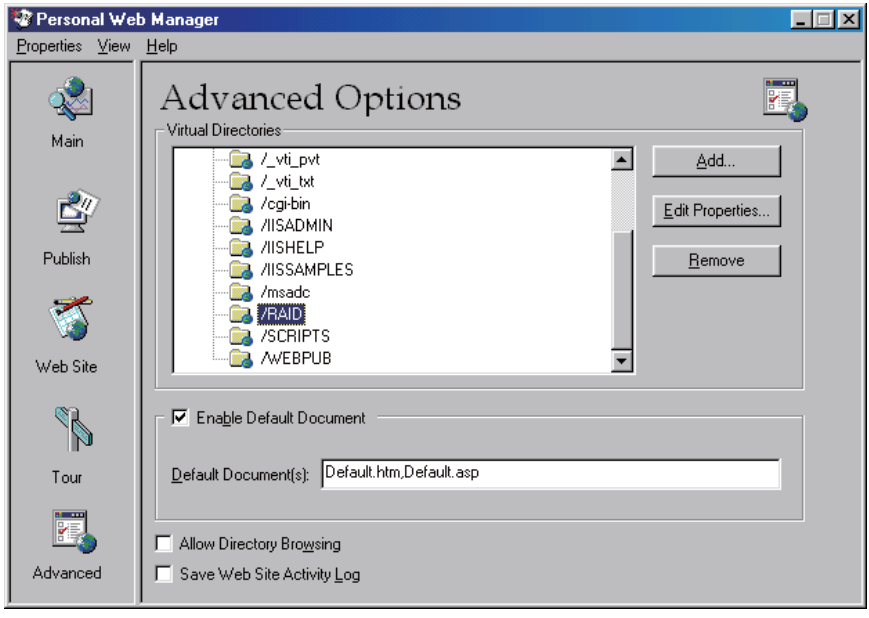
[Figure B-2.1]



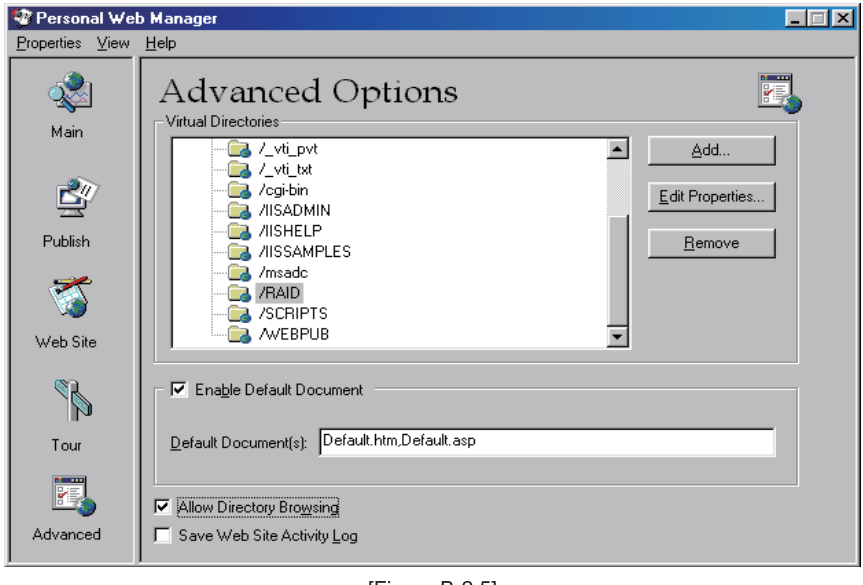
[Figure B-2.2]



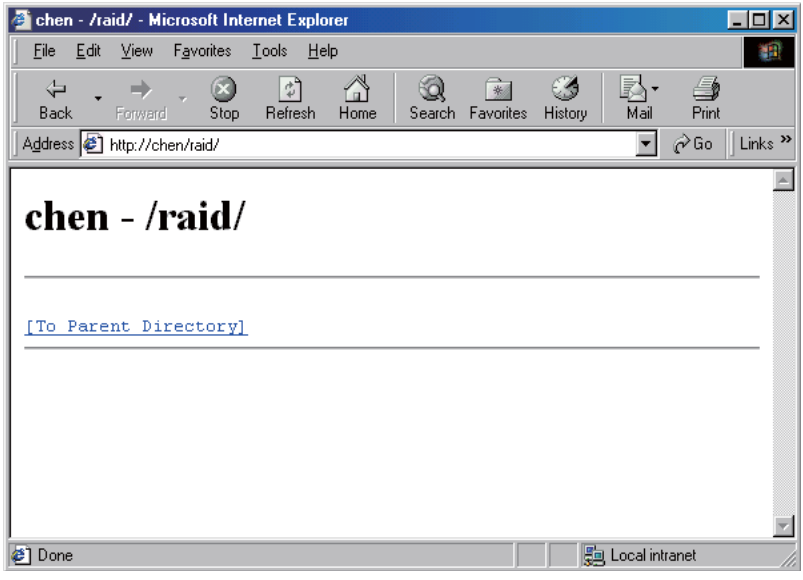
[Figure B-2.3]



[Figure B-2.4]



[Figure B-2.5]

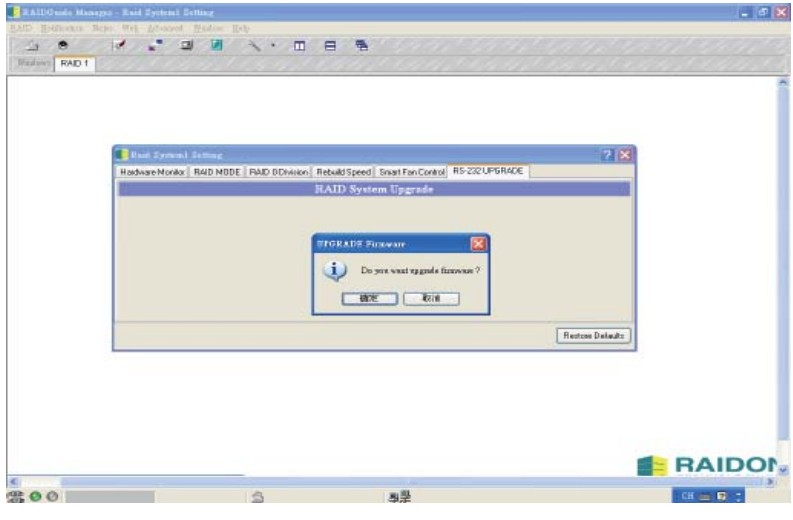


[Figure B-2.6]

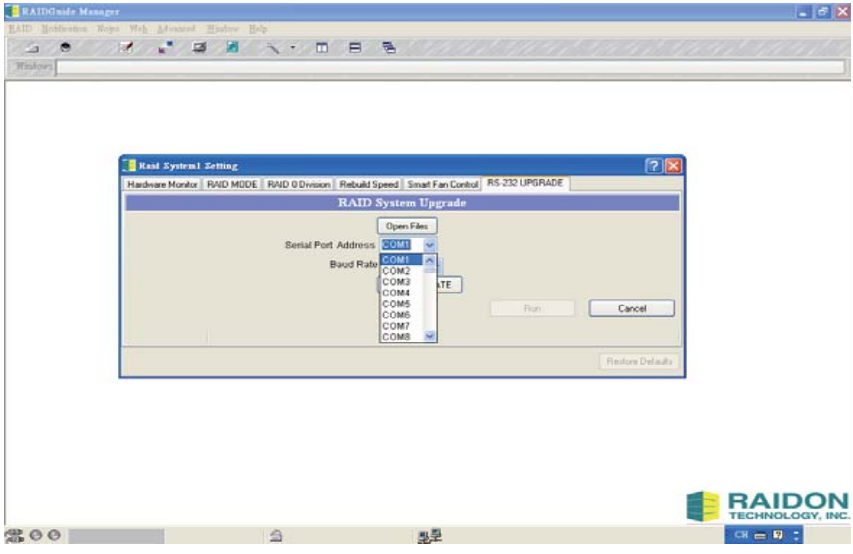
3.7 Firmware Update

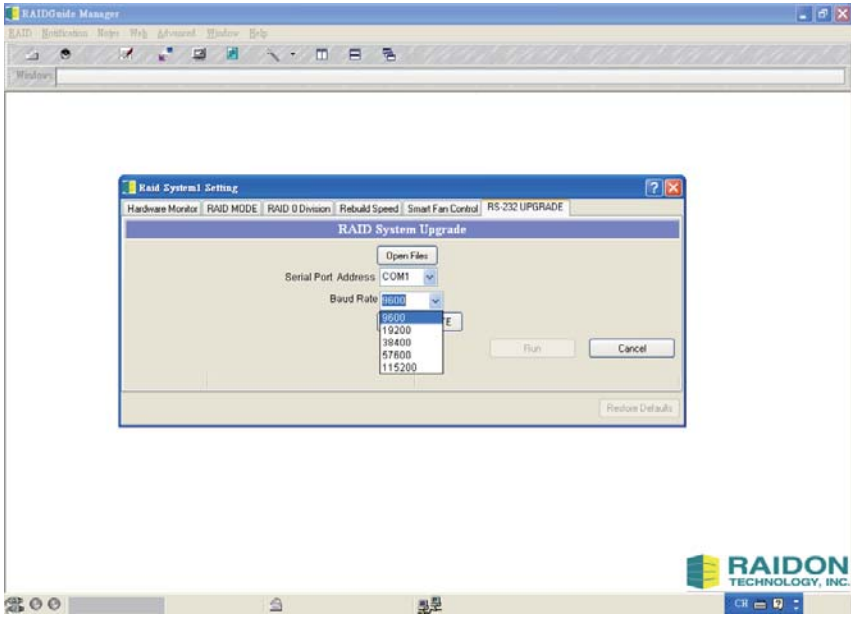
Go to program list to run RAIDGuide and open corresponding windows. From the tools menu at upper screen, select “Advance” then RAID System 1 Setting. Multiple-function window appears, select RS232 UPGRADE button, click “Confirm” to execute updating Firmware.

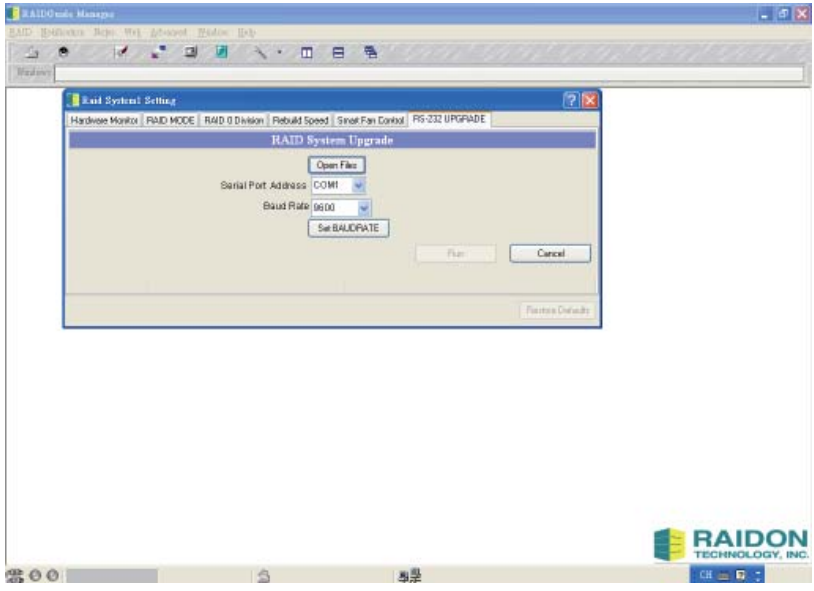
Note : Before updating firmware, please backup the data in the hard disks first to avoided any accident.



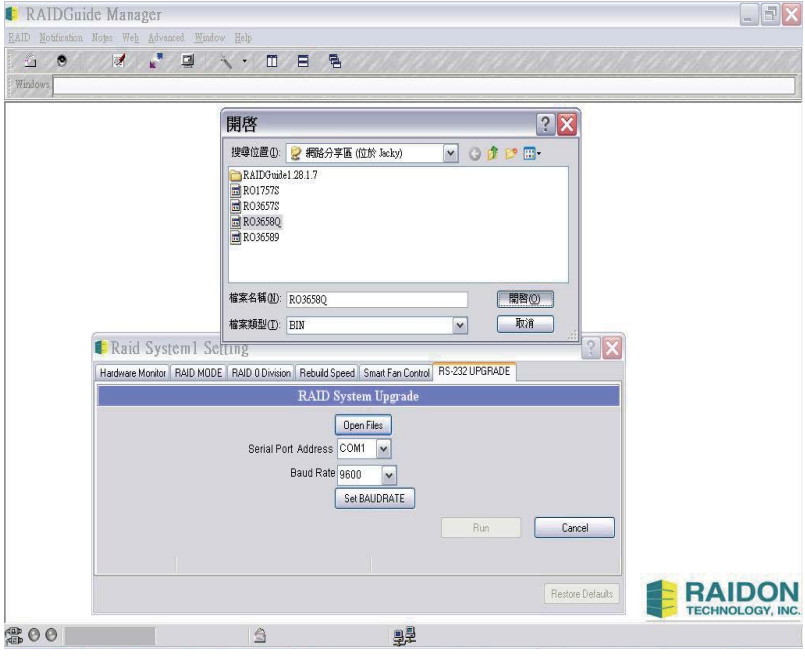
Select Serial port address: COM 1 and Baud Rate: 9600



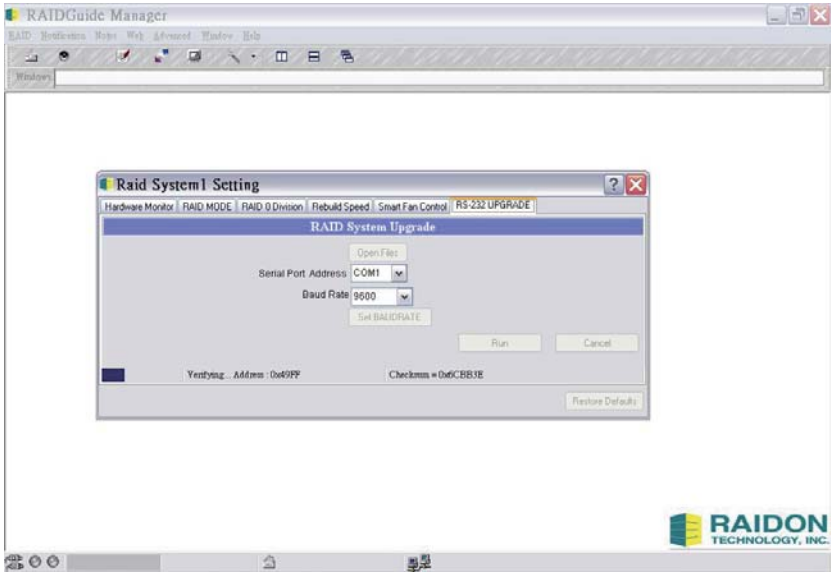




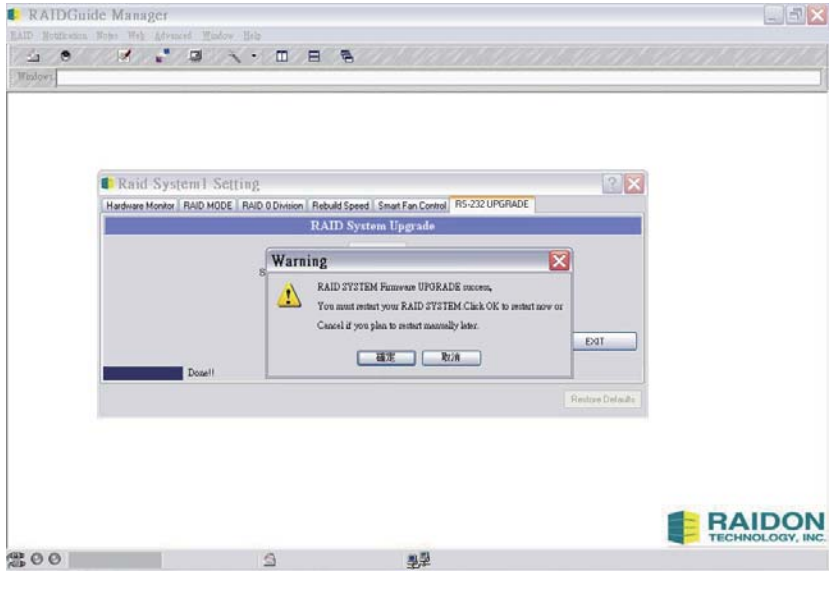
Active ”Open Files “ button to open the location of firmware.



Once you have choose the location of Firmware, click “Run”, the system will start update firmware automatically. It will display following information “Vertifying…Address:xxxx”.



When updating is completed, system will display completion information which means successful operation.



Appendix A Questions and Answers

Q : When using the SR5600 Series, the computer is unable to read/write properly?
A : 1. Please check related port is work well or not.
2. Please check cable whether connect properly or not.
3. Please check all disks are ready or not.

Q : The buzzer keeps sounding during SR5600 operation.
A : Please check any failure indicator on LCD or LED.
If “F” display on LCD, that means Fan Failed.
If “T” display on LCD, that means overheat in SR5600..

Q : I can not using 2 hard disks in RAID 0 mode.
A : SR5600 Series controller will set 4 hard disks as one Logical Drive. Therefore, when you put 2 hard disks in SR5600, the system will not work. Please put 4 hard disks in when using SR5600 in both RAID modes.

Memo