

DUAL BAY NAS-SERVER MANUAL



After Sales Support

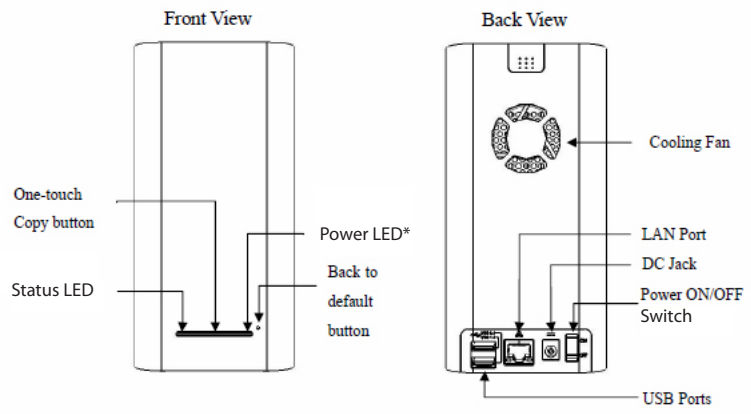
Congratulations on purchasing this Dual bay NAS server

With the purchase of this unit you get a storage unit for pictures, music, video and other files that needs safe keeping. In addition to this you also get a dedicated helpline and web support solution for your convenience.

Website: www.unisupport.net

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1. Hardware Overview



1.1 Power

The unit uses an external power adapter (12V DC, Maximum 4 Amps, 100-240V AC, 50-60Hz)

*the power LED is only a LED not a button.

1.2 Ports

LAN Port	One Gigabit RJ45 Ethernet port. This connects to your router or switch via Ethernet cable.
USB Ports	There are two ports for USB connection to the NAS server. Used for connecting USB devices such as external hard drives and printers to the NAS server.

1.3 Buttons

Item	Description	
Power ON/OFF switch	Press this switch to turn on or off the NAS server on the backside.	
One-Touch Copy button	USB device (Flash or External hard disk drive) to NAS server hard disk	Copy data from the connected USB device into the "public" folder of NAS server hard disk (it does not matter which USB port is used).
*Back to default button	Press for 3 seconds	Reset the NAS server to factory default settings. The Default IP will be 192.168.16.1. Please note: all settings will be deleted

*Please note:

1. The "Back to default" button is hidden behind a hole on the front panel of the NAS server. To press this button a hand tool with a pin of diameter < 1.5mm is needed, this tool is not supplied.

1.4 LED's

LED	Color	LED-status	System status
Power ON/OFF LEDS	Blue	Constant light Blinking Blinking, 2 times/second Blinking, 1 time/2 seconds	Power ON, System ready Hard Disk Drive Reading/Writing System initialization not ready Hard Disk Drive in suspend mode
Status-LED	Orange	Constant light	RAID error RAID rebuilding
		Blinking, 2 times/second	1.System is booting up 2.2nd Hard Disk Drive not yet formatted. 3.Hard Disk Drive is under formatting 4.RAID is under configuration 5.Firmware is under upgrade
		Blinking, 1 time/2 seconds	Hard drive capacity remaining is less than 5%.
LAN LED (These LED's are located on rear side of the NASserver)		ON Off Blinking	LAN connected. LAN disconnected. Data access

***Please Note:**

1. The 1st Hard Drive is defined as the NAS server drive as the NAS server system is installed on this drive. The 2nd Hard Drive is data storage only as not NAS server system is installed on this drive.

2. Installation






Requirements

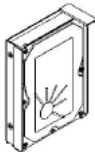
The following items are required when using the NAS server.

- TCP/IP Protocol must be installed in your PC or Laptop computer.
- NAS server is connected to a switch or hub connected to the network.

HW Installation

- Part list.

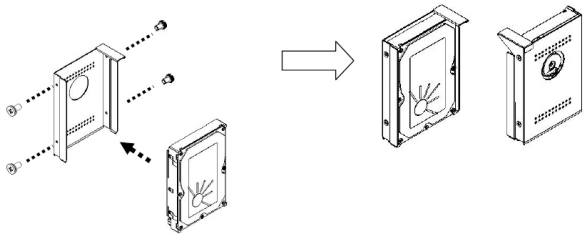
Item	Part Illustration	Part Description	Quantity	Remark
1		Top Cover	1	
2		Housing Assembly	1	
3		Hard Disk Holder	2	
4		Screw 6 x 32 x H7	8	
5		SATA Hard Disk Drive	1 or 2 Max. 2TB pr. drive	Not included.

6		HDD Holder Assembly *this is an illustration of an HDD mounted in HDD Holder, this is the combined product of items 3,4 and 5	2	Hard drives are to be mounted into the HDD Holder assembly by user
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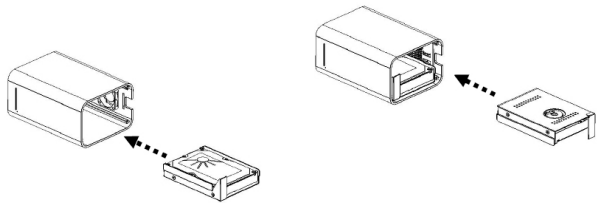
Hard drive holder assembly

PLEASE NOTE THAT IF ONLY 1 HARD DRIVE IS USED, PLACE IT INTO THE HOLDER AT THE RIGHT SIDE WHEN LOOKING AT THE FRONT OF THE NAS SERVER, OTHERWISE SETTINGS CANNOT BE STORED

1. Use 3(1 piece), 4(4 pieces), 5(1 pieces), and a screwdriver (not included) mount the SATA HDD onto the Hard disk holder using the four screws



2. If two hard drives are to be used, repeat Step 1 to install the second SATA HDD into the other HDD Holder Assembly 6, as shown above.
3. Put the Housing Assembly 2 horizontally on the desk, and then install 6 (1 piece) into 2 as per the illustration. If two hard drives are to be used, install the other 6 (1 piece) into 2.

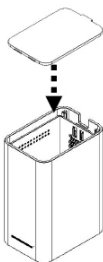


Please Note:

Due to the weight of the assembled HDD Holder, The mechanical design was made to protect the PCB Assembly within the Housing from unwanted damaged caused by installing as shown in below. Please notice that this is NOT a recommended installation method..

VERTICAL INSTALLATION IS NOT RECOMMENDED

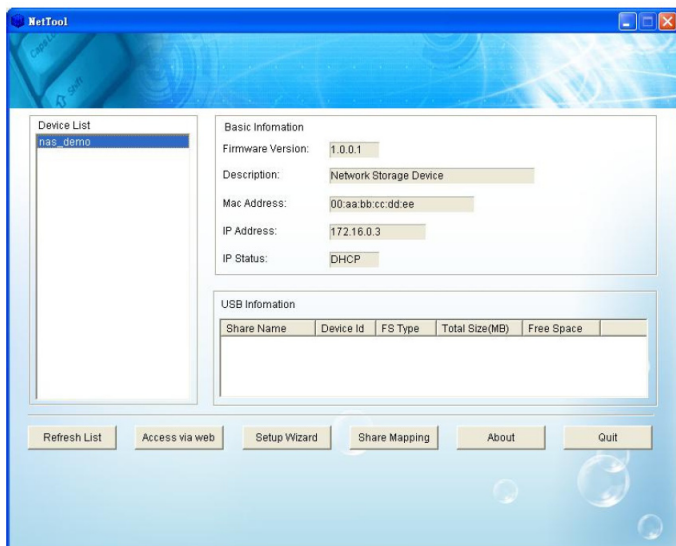
4. Install the Cover 1 (1 piece) and whole assembly is complete.



- After the Hard Disk Drives are installed as per step 1 to 4, connect the network cable to LAN port of the NAS server. A typical network setup consists of computers and the NAS server connected to a router.
- Connect the power to the NAS server, then press the Power ON/OFF button at the back of the NAS server to turn on the NAS server. Please note that the system boot up will take around 1 minute.
- Insert the CD-ROM which came with the NAS server product and run "NetTool.exe" from the folder "NetTool" to discover to this NAS server as shown below.

Please note: Hlt is a good idea to copy the "NetTool.exe" to the desktop of the computer for easy access to the NAS server. To copy the "NetTool.exe", select it by clicking on it with the left mouse button once, right click once and a mini menu will be shown. Select "copy" from the menu, to insert the copied file "NetTool.exe" on your desktop, minimizes all windows and right click on the desktop, this will bring up the mini menu again. Select "paste" to copy the file from the CD to your desktop.

The "NetTool.exe" file is now located and can be started from the desktop



- Please check if the HDD is detected on the list of “USB Information”. After this click on the “Access via web” button and the below window will be shown.

Installation Wizard

The following 2 steps will guide you to install NAS software and format the HDD.

Step 1:Firmware upload

Step 2:Format the HDD

Current attached device:

SDA

Port:

ID:

Size:

☐ Format to XFS

☐ Format to FAT32

☐ Format to EXT2

☐ Format to EXT3

- To install the NAS server features, click the “Browse” button and select to install NAS server features by selecting the image file “new_firmware.bin” from the folder FW release that is located on the CD-ROM that came with the NAS server.

Installation Wizard

The following 2 steps will guide you to install NAS software and format the HDD.

Step 1:Firmware upload

D:\FW release\40_Oxford\2010-01-07\2010-01- Browse...

Step 2:Format the HDD

Current attached device:

SDA

Port: ID: Size:

☐ Format to XFS
☐ Format to FAT32
☐ Format to EXT2
☐ Format to EXT3

Start now

- Select the HDD and the file system which is going to be formatted.

Installation Wizard

The following 2 steps will guide you to install NAS software and format the HDD.

Step 1:Firmware upload

D:\FW release\40_Oxford\2010-01-07\2010-01- Browse...

Step 2:Format the HDD

Current attached device:

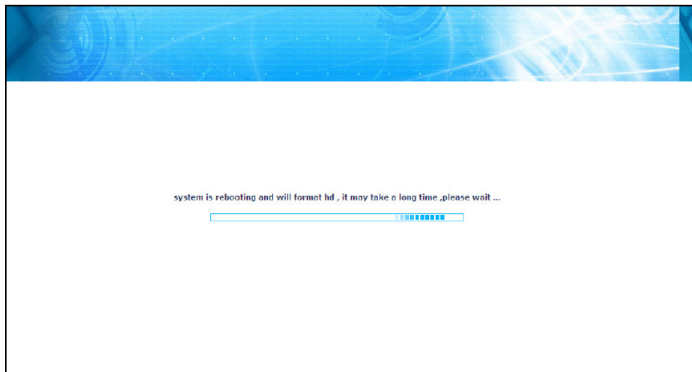
SDA

Port: PORT1 ID: ATA Size: 74.5GB

☒ Format to XFS
☐ Format to FAT32
☐ Format to EXT2
☐ Format to EXT3

Start now

- Click “Start now” to install and format the HDD, please note that it may be necessary to confirm the format and installation by clicking OK in a popup window.



- Run the Windows utility “NetTool” to discover to the NAS server again.
- Click on the button “access via web” and enter user name and password to enter the web GUI. The default values are admin/admin.



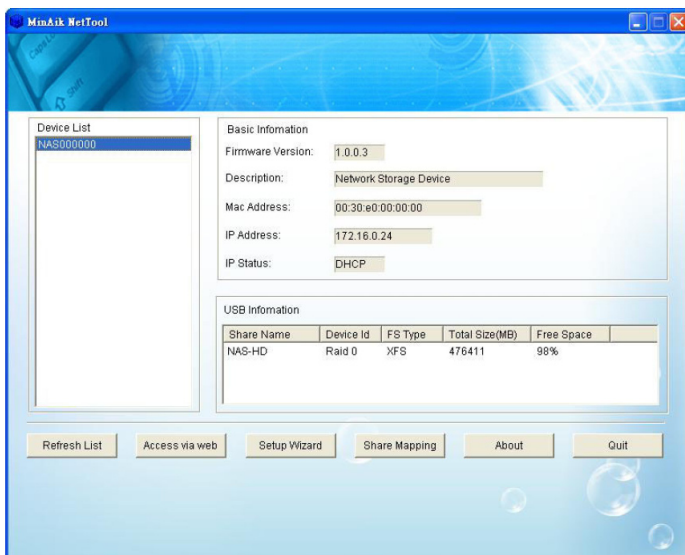
Notes:

- When the Blue LED is constant blue the boot up completed.
- Press the Power ON/OFF switch to the “OFF” position to turn off the NAS server.

3. Windows Tool

3.1 Quick Setup Wizard

This tool gives the possibility to search for every device on the network and show some information about the NAS server, it also gives the possibility to access the NAS server web page and to change the settings of the device such as description, time zone, date, time, IP etc. The Quick Setup Wizard is able to access the NAS server even if it is in another IP or subnet range (default IP of the NAS server is 192.168.16.1). The Setup wizard also gives the possibility of changing the standard IP address to either DHCP (automatic IP) or to a specific IP address in the network.



3.1.1 Refresh List

Refresh List updates the device list and will show all devices in the same subnet. It will also show the IP of units even if the subnet is different.

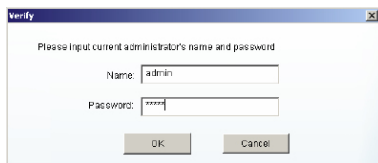
3.1.2 Access via Web

This function will link to the webpage of the chosen device.

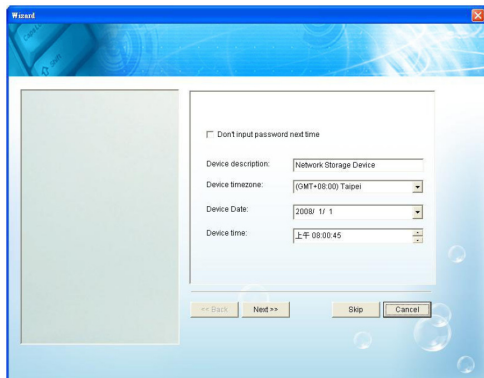
3.1.3 Setup wizard

To access the setup wizard the admin password needs to be entered. Default name is: admin, default password is: admin

Step 1

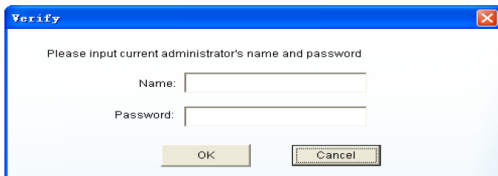


A small dialog box titled "Verify" with a close button (X) in the top right corner. The text inside says "Please input current administrator's name and password". There are two input fields: "Name:" with the text "admin" entered, and "Password:" with "xxxx" entered. At the bottom are "OK" and "Cancel" buttons.



A larger dialog box titled "Wizard" with a close button (X) in the top right corner. The background is blue with a keyboard image. On the left is a large empty rectangular area. On the right is a settings panel. At the top of the panel is a checkbox labeled "Don't input password next time" which is unchecked. Below it are four settings: "Device description:" with a text box containing "Network Storage Device"; "Device timezone:" with a dropdown menu showing "GMT+08:00 Taipei"; "Device Date:" with a dropdown menu showing "2008/1/1"; and "Device time:" with a dropdown menu showing "上午 08:00:45". At the bottom of the panel are four buttons: "<< Back", "Next >>", "Skip", and "Cancel".

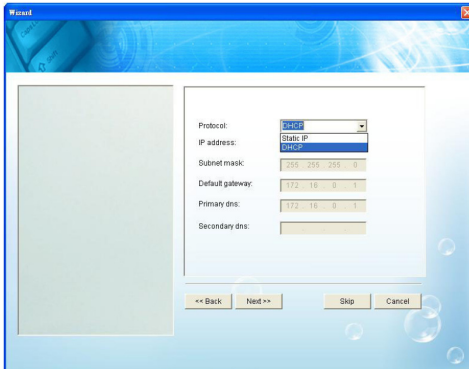
Select the "Don't input password next time" if you do not want to enter the username & password next time when you want to enter the "Setup wizard". If this option is not selected, the system will ask for username and password next time as below.



A dialog box titled "Verify" with a close button (X) in the top right corner. The text inside says "Please input current administrator's name and password". There are two empty input fields: "Name:" and "Password:". At the bottom are "OK" and "Cancel" buttons.

It is also possible to change the description, time zone, date and time of the device from here. After the settings are set correctly, click "Next" to save the settings and go on to step 2, or if you want to leave the setting as it was, click "Skip"

Step 2



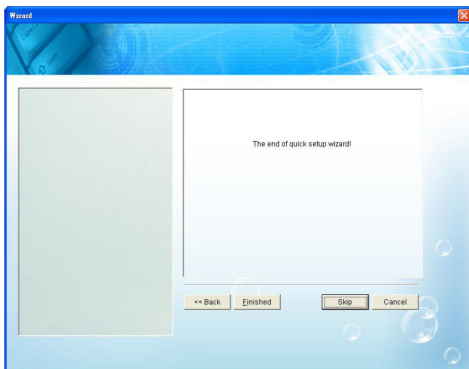
The screenshot shows the 'Wizard' window for Step 2 of the NetTool setup. The window has a blue header with the title 'Wizard' and a close button. The main area is divided into two panes. The left pane is empty. The right pane contains a configuration form with the following fields:

- Protocol: A dropdown menu with 'DHCP' selected.
- IP address: A dropdown menu with 'Static IP' selected.
- Subnet mask: A text box containing '255.255.255.0'.
- Default gateway: A text box containing '172.16.0.1'.
- Primary dns: A text box containing '172.16.0.1'.
- Secondary dns: An empty text box.

At the bottom of the right pane, there are four buttons: '<< Back', 'Next >>', 'Skip', and 'Cancel'.

In step 2 the IP, subnet, gateway and DNS of the device can be altered. It is recommended to use DHCP as this will automatically get these options from the network. If a specific (Static IP) is to be used, please get the information from the ISP or network administrator. When the settings are complete, click "Next" to save and go to step 3 or if you want to leave the setting as it was, click "Skip".

Step 3



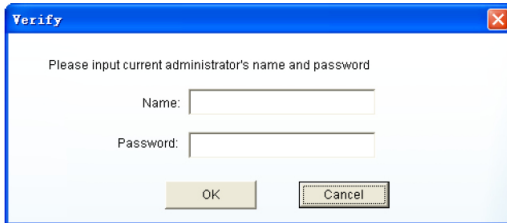
The screenshot shows the 'Wizard' window for Step 3 of the NetTool setup. The window has a blue header with the title 'Wizard' and a close button. The main area is divided into two panes. The left pane is empty. The right pane contains a message box with the text 'The end of quick setup wizard!'. Below the message box, there are four buttons: '<< Back', 'Finished', 'Skip', and 'Cancel'.

Click "Finished" to complete the setup wizard and go back to the Main menu.

The NAS server will disappear shortly from the NetTool to use the settings specified in the setup wizard. When done, the NAS server will be shown again with the new settings including a new IP address that conforms to your network standards.

3.1.4 Share mapping

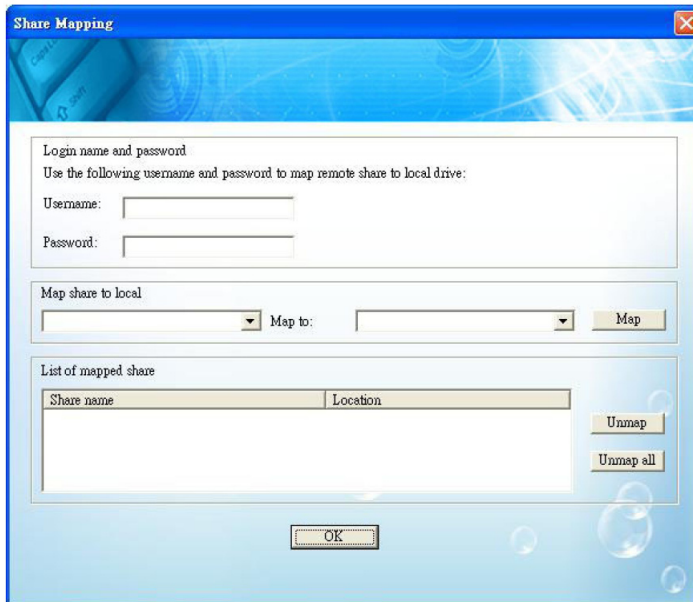
Step 1



A dialog box titled "Verify" with a blue border and a close button (X) in the top right corner. The text inside says "Please input current administrator's name and password". There are two input fields: "Name:" and "Password:". Below the fields are two buttons: "OK" and "Cancel".

Input current administrator's name and password and click OK. Please note that the default name is: admin and default password is: admin.

Step 2



A dialog box titled "Share Mapping" with a blue border and a close button (X) in the top right corner. The background has a blue abstract pattern. The text inside says "Login name and password" and "Use the following username and password to map remote share to local drive:". There are two input fields: "Username:" and "Password:". Below these is a section titled "Map share to local" with a dropdown menu, the text "Map to:", another dropdown menu, and a "Map" button. Below that is a section titled "List of mapped share" with a table. The table has two columns: "Share name" and "Location". To the right of the table are two buttons: "Unmap" and "Unmap all". At the bottom center is an "OK" button.

Share name	Location
------------	----------

Login name and password: only needed if the folder you wish to share requires username and password, e.g. if you have created a folder through the web interface and set a specific user for this folder, it is necessary to enter the user name and password to obtain access to the folder

Map share to local: select the folder that is to be mapped from the NAS server to the local computer in the first drop down box, (the folder admin is not to be used), public and any folder created in the web tool will be shown in this drop down box. If all folders are not shown, please exit share mapping and click the refresh button on the NetTool page to update the NAS server settings

Map to: select the drive letter that the folder on the NAS server is to be mapped to in the last drop down box. The new drive will be shown in (My) Computer when the share is made and the folder from the NAS server can be accessed through (My) Computer.

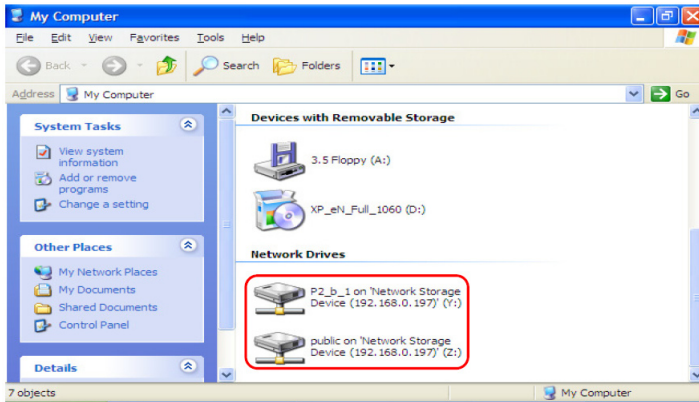
The button “Map”: will create the drive mapping, it is important to click this button.

List of mapped share: shows the folders currently mapped from the NAS server to the local PC.

Unmap: will remove the selected drive mapping

Unmap all: will remove all drive mappings

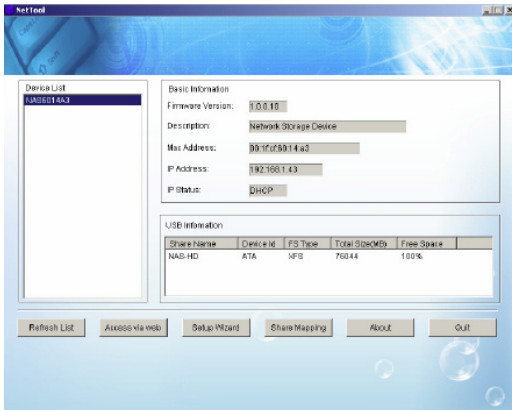
Step 3



In (My) Computer it is now possible to access the shared folders from the NAS server directly, the drives will be listed as shown above.

Please note: the way the drive mapping is shown may vary depending on the computers operating system.

Please note: on some computers the share mapping the share mapping may disappear from (My) Computer, if it does, please use the below drive mapping method instead. Open the NetTool.exe and click on the NAS server in the device list



Write down the IP address of your NAS Server in the above case 192.168.1.43

Windows XP: click on Start and Run, this will give you a small window called run

Windows Vista / Windows 7: click on the start bubble and click the search area at the bottom of the start menu Type in the IP address like this \\xxx.xxx.xxx.xxx ← remember to use your IP address This will open a new window that shows all the folders that are on the NAS server.

Right click the folder you wish to map from the NAS server to (My) Computer and select “map network drive” this will open a window where it is possible to select drive letter in “Drive”.

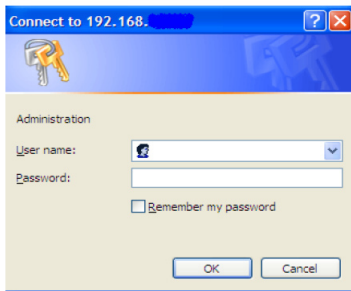
When done, press apply and the new share will be added to (My) Computer. If a username and password is required for the selected folder, a popup window will ask for this, there is a checkbox that enables the computer to store the password so that it does not need to be entered again on that computer.

4. Web

Input the NAS server IP in the browser to enter the NAS server web configuration page, this can also be done by starting the NetTool and clicking on “Access via web”.

Please note: to access the NAS servers web configuration page it is necessary that the PC and NAS server are in the same IP and subnet range, please configure this using the “Setup Wizard” in the NetTool

4.1 Web login page



Logging on to the NAS server web configuration page requires a username and password. The default username is “admin” and password “admin”.

4.2 Home

The basic information of the NAS server will be shown here.

Devices	
SATA Port:	Status: 2 storage devices installed.
USB Port:	Status: No device installed.

System Info	
Firmware version:	1.0.0.11
Device name:	NAS
Description:	Network Storage Device
MAC address:	00:1f:cf:60:14:a3
IP address:	192.168.1.5
Protocol:	DHCP
HTTP server port:	80

4.3 Administration

4.3.1 LAN Setting

This section contains all LAN settings used to configure the NAS server on the network. Depending on how the network is set up, changes to this page may or may not be necessary. It is possible to choose DHCP or Static IP from "Protocol"

Lan Setting

Protocol:

Static IP

IP Address:

192

.

168

.

1

.

211

Subnet Mask:

255

.

255

.

255

.

0

Default Gateway:

0

.

0

.

0

.

0

Primary DNS:

168

.

95

.

1

.

1

Secondary DNS:

168

.

95

.

192

.

1

Apply

Cancel

4.3.1.1 Work Group

It is possible to change the name of the workgroup the NAS server belongs to. Enter the name of your home network work group (standard work group name for windows is workgroup).

4.3.1.2 DHCP

Selecting this option enables the NAS server to request an IP and auto-configure itself to the network if there is a DHCP Server present.

Note: If DHCP Client is enabled, but there is no DHCP server, the NAS server will fall back to the default IP address of 192.168.16.1.

4.3.1.3 Static IP

Click this option if no DHCP Server present on the network or to manually enter network settings in the fields provided below this option.

IP Address	Enter the static IP address
Subnet Mask	Enter the Subnet Mask address
Default Gateway	Enter the Gateway IP address
DNS1 and DNS2 (both optional)	If available, enter those IP addresses here

If you need assistance in manually entering the above information, contact your ISP (Internet service provider) or network administrator for additional help configuring the network settings.

4.3.2 DHCP Server

The DHCP server function enables the NAS server to act as DHCP server for the network

DHCP Server Settings

The NAS can be setup as a DHCP server to distribute IP addresses to the network.

DHCP Server: ☐ Enabled ☒ Disabled

Starting IP address: . . .

Maximum Number of IPs:

Default Gateway: . . .

Primary DNS: . . .

Secondary DNS: . . .

Lease Time: hours

DHCP Clients List:

Hostname	Mac Address	IP Address	Expires In

4.3.3 System Settings

The basic settings of NAS server can be set at here. Including “Device Name”, “Description”, “Date”, “Time Zone”, “Http Port” and the NTP can be enabled or disabled here.

System Settings

Device Name:

NSDCCDD93

Description:

Network Storage Device

Date:

Apr

3

2008

(month, day, year)

Time:

9

:

8

AM

Time Zone:

(GMT+08:00) Taipei

NTP:

☒ Enabled

NTP Server:

time.windows.com

Http Port:

80

Apply

Cancel

Device Name	Enter a valid name for the NAS server, includes: '0-9', 'a-z', 'A-Z', '-', '_'
Description	Enter a valid description of the NAS server, includes: '0-9', 'a-z', 'A-Z', '-', '_'
Date	Select the current month ,day and year
Time	Enter the current time, and Select PM or AM
Time Zone	Select the appropriate time zone
NTP	Choose Enabled to activate Network Time Protocol for automatic adjustment of the time and date
NTP Server	Enter the correct NTP server
Http Port	Enter the valid name, from 80 to 65535

When the NTP option is enabled, you will need to enter a valid NTP server to make it work correctly. The NAS server will get the time from the NTP server. (The selection for the date and time will close after NTP is enabled) standard NTP server is “time.windows.com”

4.3.4 FTP Server Settings

FTP Server Settings

☒ Enable FTP server

Port: (Default value is 21)

☐ Enable anonymous login(as guest)

☐ Enable download

☐ Enable upload

Connection Setting

☒ No limit

☐ Limit to: connections(can't be zero)

Client PC's Language:

Apply

Cancel

Enable ftp server	Enable or disable the FTP server part of the NAS server
Enable anonymous login(as guest)	Enable or disable download and upload using anonymous login
Connection Setting	Choose limit connections to limit the amount of client PCs that can login at the same time or select no limit to disable the limit
Client PC's Language	Select the client PC language, normally Union Code (UTF-8) is used.

The FTP server will be accessible only when enabled.

Please note: The admin username and password is, Username: admin, Password: admin

4.3.5 USB Devices

Attached USB hard disks and flash disks will be shown here.

Storage Devices					
ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
<div>Refresh</div>					

RAID

When you have configured RAID-1 configuration and you experience a single disk failure, you will be able to see status message as seen below. Here you can see that Raid error is stated.

Storage Devices					
ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
1	NAS-HD	Raid error	Fat/Fat32	76049	<div></div> 100%
<div>Refresh</div>					

When you have replaced the faulty hard drive with a new one the NAS server will rebuild the RAID-1 configuration by mirroring everything on the healthy hard drive to the new hard drive and thereby restoring the RAID-1. This progress starts up as soon as you have placed the new hard drive in to the NAS server, and turned on the server. Note that you should not insert new hard drive in to the NAS server while the server is turned on.

To see the progress of the rebuild, you must logon to the NAS server again and go in to the USB Devices and click on the Refresh button as seen below.

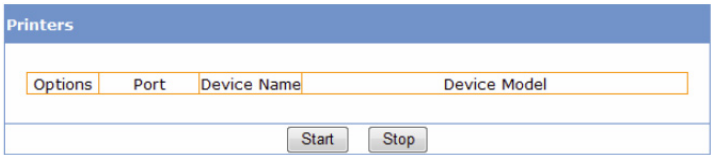
Note that the rebuild process can take long time to finish, as it depends on the size of the hard drive. It is very important not to turn off the NAS server during the rebuild process. Example the rebuild of an 80GB hard drive will take approximately 45 minutes. Using the NAS during the rebuild process will extend the rebuild time.

Please note: to identify which disk has an error, please turn off the NAS server and disconnect one hard drive, now start the NAS server again. If you can access your data, you have removed the defective disk. If not, the defective disk is the one still in the NAS server.

Storage Devices					
ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
1	NAS-HD	Raid1 rebuild (36.7%)	Fat/Fat32	76049	<div></div> 100%
<div>Refresh</div>					

4.3.6 Printer Server

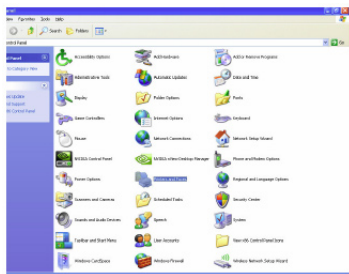
Please note: The NAS server only accept USB Printers; multi-function printers are not supported.



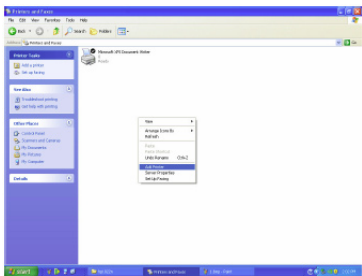
Please follow the steps below to install USB printer.

4.3.6.1 Windows XP

Go to the Control Panel



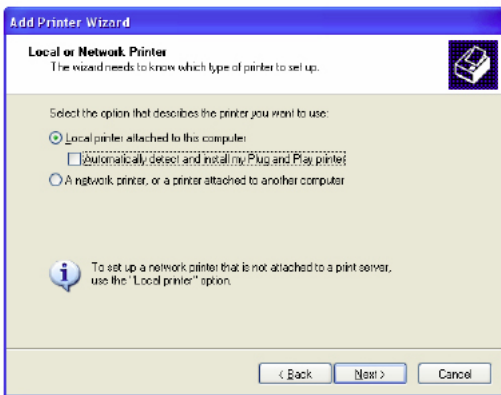
Go to printers and Faxes



Click add a printer either by clicking on this in printer tools or right clicking in the printers and faxes window and selecting Add Printer



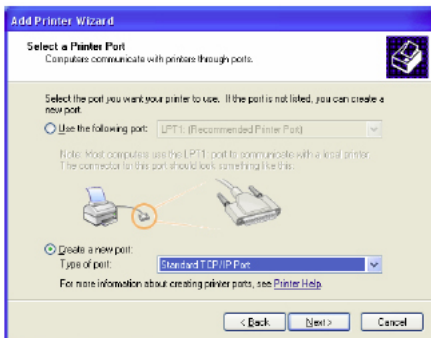
Click next to start the printer installation wizard



Click "Local printer attached to this computer"

Remember to remove the check mark in "Automatically detect and install my Plug and Play printer"

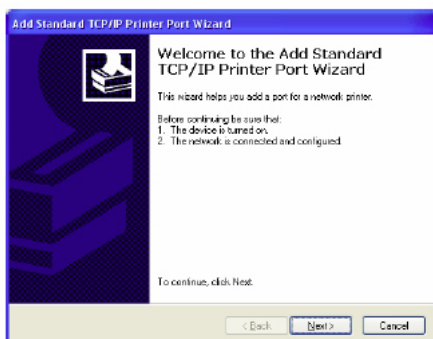
Click Next



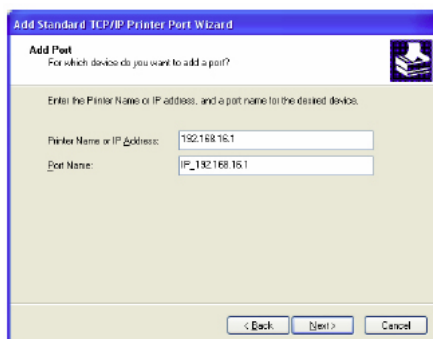
Click on "Create a new port"

In Type of port, select "Standard TCP/IP port"

Click Next

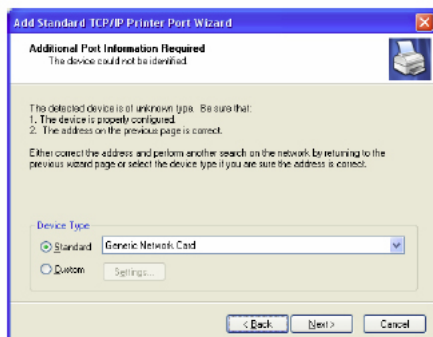


Click Next



In "Printer Name or IP Address" enter the IP address of the NAS that was found using the "NetTool"

Click Next

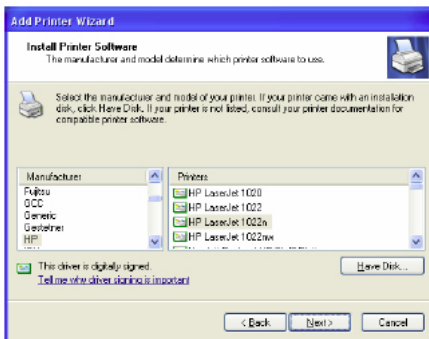


In Device Type, select Standard and select "Generic Network Card" from the drop down box

Click Next

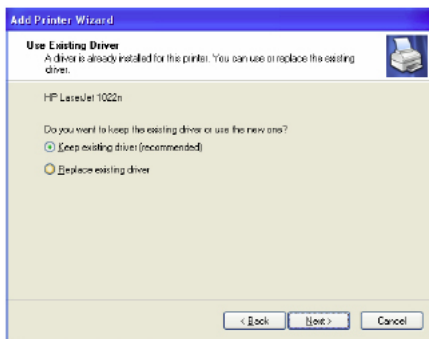


Click Finish

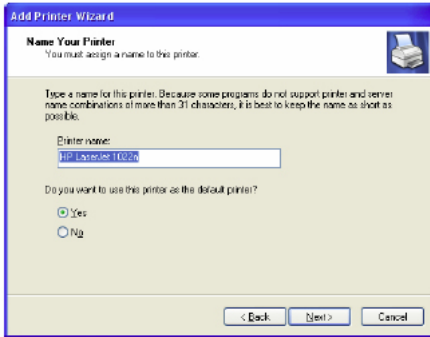


Search for the manufacturer of the printer in the left window and select the printer in the right window. If the driver is not listed in the drivers already in windows, please download the printer driver from the printer manufacturers website and install it either by pressing "Have Disk" or using the built-in setup feature in the printer driver.

Click Next



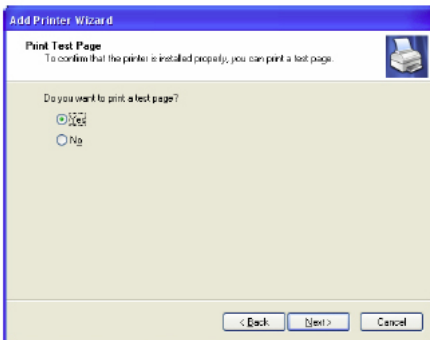
If the driver is already installed on the computer the above screen will be shown, simply select "Keep existing driver (recommended)" and click Next



Give the printer a name; it can be an advantage to type NAS in front of the printer name to indicate that the printer is connected to the NAS.

Also select whether or not to use the printer as default printer.

Click next



Select whether or not to print a test page

Click Next



Click finish to end the printer installation



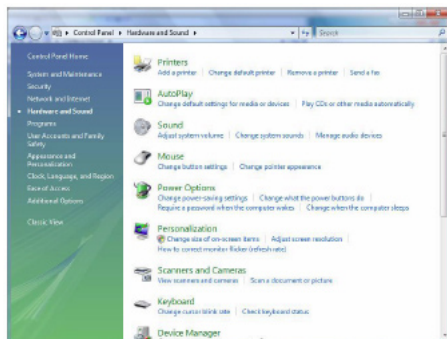
If a test page was printed, the above picture will be shown. Press the OK button when the printer has printed the test page

4.3.6.2 Windows Vista

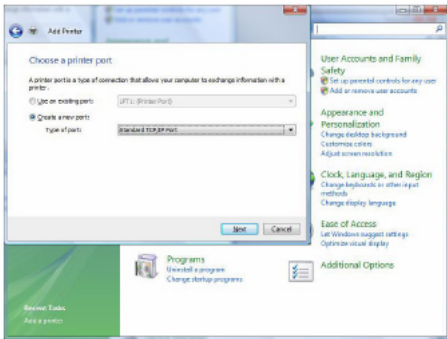
Go to the Control Panel



Go to Hardware and Sound



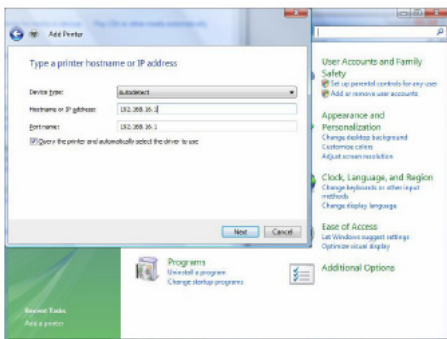
Click add a printer



Click on "Create a new port"

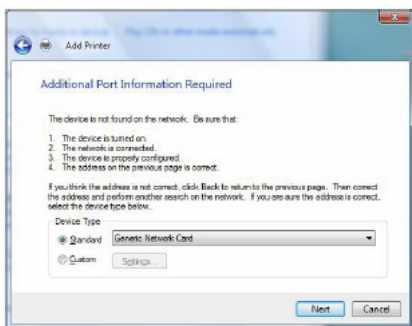
In "Type of port" select "Standard TCP/IP Port"

Click Next



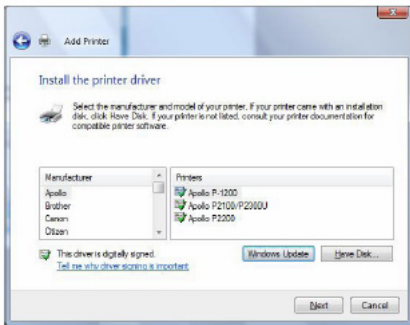
In "Hostname or IP address", type in the IP of the NAS server found in the "NetTool"

Click Next



In Device Type, select "Standard" and select "Generic Network Card" from the drop down menu

Click Next

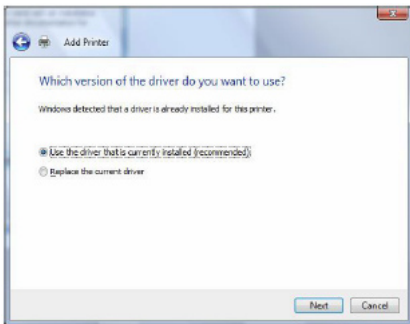


In the left hand window select the manufacturer of the printer

In the right hand window select the printer

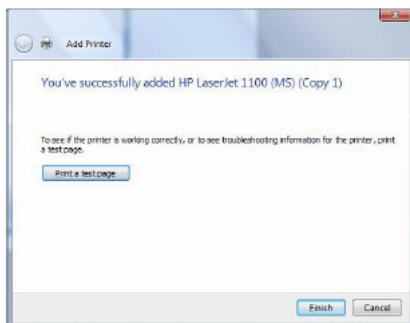
If the printer is not listed here, download the driver for the printer from the printer manufacturers website and install it by either using the Setup software in the windows driver or by clicking on "Have Disk"

Click Next



If the printer driver is already in the system, the above screen will appear, please use the driver that is currently installed (recommended)

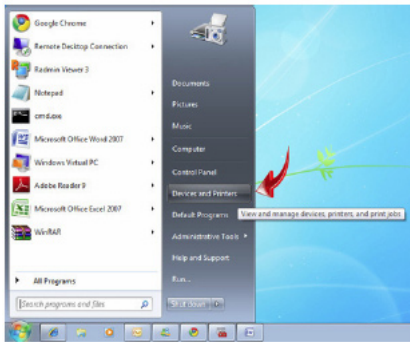
Click Next



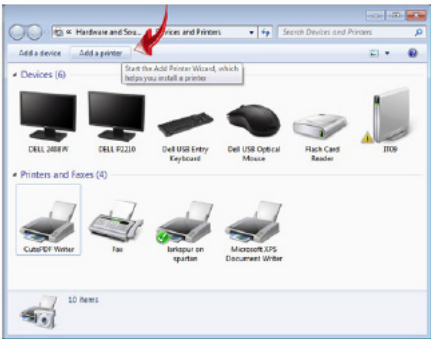
Here it is possible to print a test page by pressing "Print a test page"

Click Finish to finish the printer installation

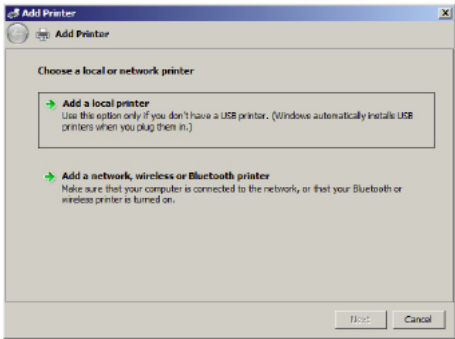
4.3.6.3 Windows 7



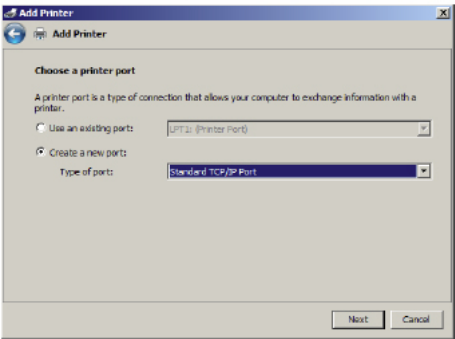
Go to “Devices and Printers”



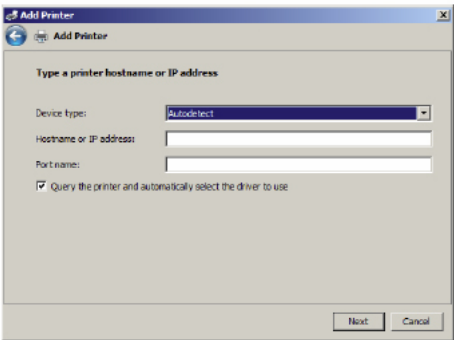
Click on “Add a printer”



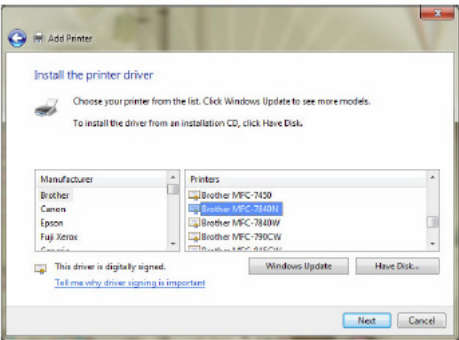
Click on "Add a local printer"



Click on "Create a new port"
In type of port select "Standard TCP/IP port"
Click Next



In "Hostname or IP address", type in the IP address of the NAS server found in the "NetTool"
Click next

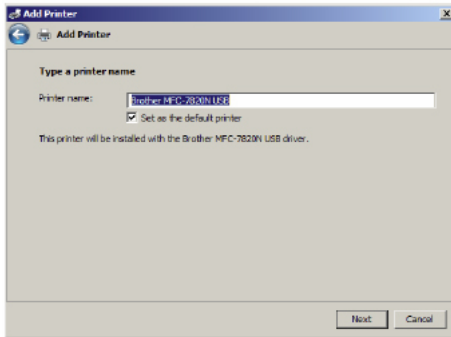


In the left hand window select the manufacturer of the printer

In the right hand windows select the printer

If the printer is not listed here, download the driver for the printer from the printer manufacturers web-site and install it by either using the Setup software in the windows driver or by clicking on "Have Disk"

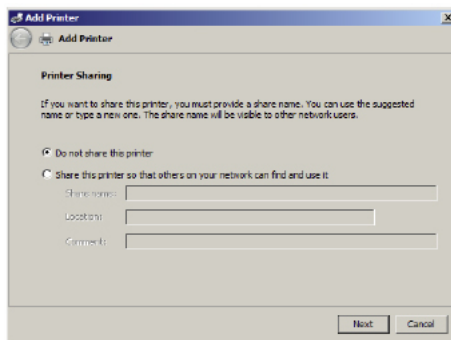
Click next



Give the printer a name; it can be an advantage to type NAS in front of the printer name to indicate that the printer is connected to the NAS.

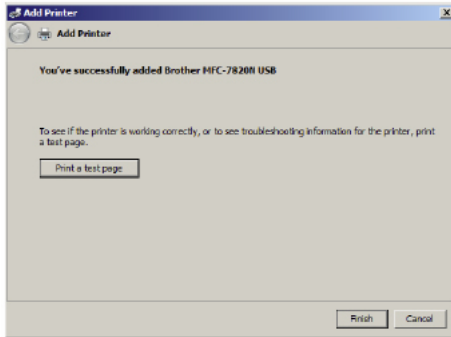
Select whether or not to set the printer as default printer

Click next



Select "Do not share this printer"

Click next



Here you can select whether to print a test page

Click finish to finish the printer installation

4.3.7 Web Based Management

In share list, click the name of the root folder that is to be used, e.g. public. Clicking the icon next to a folder name (shown in the Document folder list) will activate this folder.

Web Based Management

Share List:

public

public

data

music

picture

video

Current Directory:

Back Off

Document Folder List

Name	Folder Size
BTDownload	0
music	161.0M
picture	397.3M
video	2.3G
data	0

File List

Name	File Size
------	-----------

File Upload

Back Off: click this button to go back to the previous folder.
File Upload: gives the possibility to upload files to the selected folder.

A file from the “File List” can be opened or downloaded from this page, left click on it to open the file or right click and select download as... to download the file.

Web Based Management

Share List:

video

Current Directory:

lp. Man 2. 2010. CN DVD Rip x264-Torrei

Back Off

Document Folder List

Name	Folder Size
------	-------------

File List

Name	File Size
ttg-ipman2.cht.srt	64.0k
ttg-ipman2.mkv	1.1G

File Upload

4.3.8 User Management

Here it is possible to create and delete users. It is also possible to alter the users username and password.

User Management

User name:

☐ No password required

Password:

☐ With admin property

Verify password:

User description:

Add user

Users	Description	admin
<input type="checkbox"/> winson		✓
<input type="checkbox"/> mary		
<input type="checkbox"/> joe		

Delete user

Clicking on the icon to the left of the user name will bring up the “modify user properties” page.

Modify User Properties

User name:

winson

☐ No password required

☒ With admin property

New name:

New password:

Verify password:

User description:

Update

Return

4.3.9 Group Management

A group is used to give several users the same rights, e.g. if 5 users are to get access to 10 different folders, these 5 users have to be added 10 times each but with the use of groups these 5 users are located inside the same group so selecting the group to access the folder will automatically give access to the users inside

Here it is possible to create or delete groups.

Group Management

Group name:

Group description:

Add group

Groups	Description
<input type="checkbox"/> minaik	

Delete group

Click on the icon to the left of the user name will bring up the list of users in the NAS server and will allow them to be added to the group.

Group Name

minalik




New group name:

Group description:

Update

Return

User list of group

Users	Description
<input type="checkbox"/>  winson	
<input type="checkbox"/>  mary	
<input type="checkbox"/>  joe	

Apply

4.3.10 Folder Management


Here it is possible to create or delete folders.

Folder Management

Folder name:

Folder description:

Add folder

Folders	Description
<input type="checkbox"/>  data	

Delete folder

When a folder is added, clicking the icon to the left of the name will bring up the folder administration page.

The folder administration page is used to grant access to groups or users so that they can access the folder on the NAS server.

It is possible to give a group or user no access, Read-only access or Read and write access
If no users are selected the admin username and password of the NAS server is used to unlock the folder with read and write capabilities.

Default Username: **admin**

Default password: **admin**

Folder Name	vedio	
Change folder name:	<input type="text"/>	<input checked="" type="radio"/> Set access for individual users <input type="radio"/> No access for all users <input type="radio"/> Read-only access for all users <input type="radio"/> Read/Write access for all users
Folder description:	<input type="text"/>	
<input type="button" value="Update"/> <input type="button" value="Return"/>		

Group list of folder		
Groups	properties to share	Description
minalik	<input checked="" type="radio"/> No access <input type="radio"/> Read-only <input type="radio"/> Read and write	
<input type="button" value="Apply"/>		

User list of folder		
Users	properties to share	Description
winson	<input checked="" type="radio"/> No access <input type="radio"/> Read-only <input type="radio"/> Read and write	
mary	<input checked="" type="radio"/> No access <input type="radio"/> Read-only <input type="radio"/> Read and write	
joe	<input checked="" type="radio"/> No access <input type="radio"/> Read-only <input type="radio"/> Read and write	
<input type="button" value="Apply"/>		

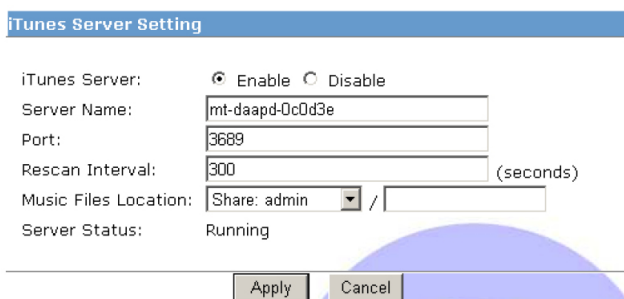
4.3.11 Media Server Settings

Media Server Settings	
<input checked="" type="checkbox"/>	Enable UPnP AV Server
Share media files in	<input type="text"/> ▼
Set time interval to rescan:	2 minutes ▼
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

Activate the UPnP AV Server by putting a check mark in the box next to the name. Select a folder to use for the Media server in "Share media files in" and select the time between rescans of the shared media files in "Set time interval to rescan"

4.3.12 iTunes Server Settings

This function enables or disables the iTunes server part of the NAS server. To use the iTunes server it is necessary to install an iTunes client on the client computer.



iTunes Server Setting

iTunes Server: ☒ Enable ☐ Disable

Server Name:

Port:

Rescan Interval: (seconds)

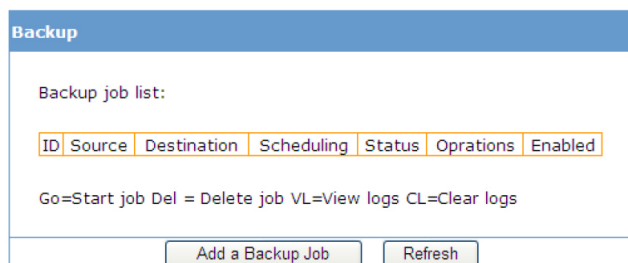
Music Files Location: Share: /

Server Status: Running

- | | |
|----------------------|--|
| iTunes Server | Choose Enable or Disable the iTunes server part of the NAS server. |
| Server Name | Enter valid name for the server, includes: '0-9', 'a-z', 'A-Z', '-', '_', '.'; If iTunes, The sever name will be listed in the shares in iTunes. |
| Port | Enter a valid number. |
| Rescan Interval | Enter a valid number; selects when to rescan the NAS server for new audio files. |
| Music Files Location | Choose the location of the music files. |
| Server Status | Click "Apply" to apply the settings to the iTunes part of the server.
The server status will indicate if the iTunes server is Running or stopped. |

4.3.13 Backup

This is the backup function of the NAS server.



Backup

Backup job list:

ID	Source	Destination	Scheduling	Status	Operations	Enabled
Go=Start job Del = Delete job VL=View logs CL=Clear logs						

Add a Backup Job

This page enables a backup to be set up in 4 steps easy steps.

Add a New Backup Job

Step 1 - Select backup source
Specify what you want to backup. The path you want to backup can be in a share on this device or located remotely.
At least one of backup source or destination must be local.

-- Please select a source --

Step 2 - Select backup destination
Specify where you want your backup data saved. The destination path can be a share on this device or a path on a remote PC or device.

-- Please select a destination --

Step 3 - Choose backup schedule
Select when you want the backup performed.

☐ Everyday ☐ Mon ☒ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun 00:00 : 00:00

Step 4 - Choose backup options
Set how many backup copies to keep, set to 0 for single backup.

0

Select backup source	Here it is possible to select the what is to be backed up, it can be either local or remote files and folders. Please note that either source or destination must be a local folder on the NAS server
Select backup destination	Here it is possible to select the destination of the backup, it can be either local or remote files and folders. Please note that either source or destination must be a local folder on the NAS server
Choose backup schedule	Select the time the backup is to be performed, choices are Monday to Friday or everyday and a time for the backup to start
Choose backup options	Here it is possible to select how many backups to keep for this backup. If for instance it should be possible to go back 5 days, enter 5. Enter 0 if the backup is a single backup. Please note that backups can take up large amounts of space so consider carefully how many backups to keep

When selecting backup source or backup destination, there are many different choices.

These are:

Remote: Windows/NAS share

Remote: Windows/NAS share

IP Address:

ShareName:

Path:

Port: ☒ Default(139) ☐ Specify


CodePage: UTF8 (For NAS)

LoginName: ☒ Anonymous(As "guest") ☐ Specify

Password:

Input the file information which you want to backup, then click “Test Availability” button to test availability result. if the result is OK, it shows your input information is right.

Remote: NFS Server



Remote: NFS Server

IP Address:

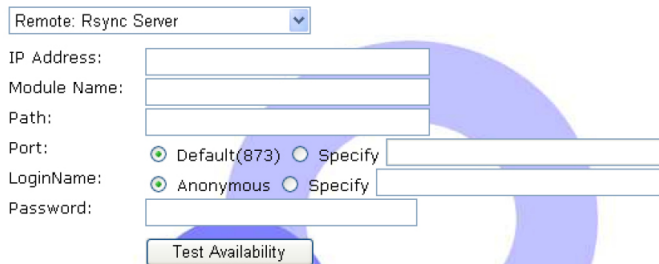
Path:

CodePage: UTF8

Test Availability

NFS (Network File System) allows a system to share directories and files with others over a network. By using NFS, users and programs can access files on remote systems almost as if they were local files.

Remote: Rsync Server



Remote: Rsync Server

IP Address:

Module Name:

Path:

Port: ☒ Default(873) ☐ Specify

LoginName: ☒ Anonymous ☐ Specify

Password:

Test Availability

Rsync uses the Rsync algorithm which provides a very fast method for bringing remote files into sync. It does this by sending just the differences in the files across the link, without requiring that both sets of files are present at one of the ends of the link beforehand. At first glance this may seem impossible because the calculation of different between two files normally requires local access to both files.

Local: public



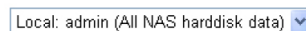
Local: public

Path:

Test Availability

Input the folder to backup in Path unless the backup is to backup the entire public folder.

Local: admin (All NAS server hard disk data)



Local: admin (All NAS harddisk data)

This section does not input any information to test, and the file is in the admin folder.

Local: the other hard drive share

The function of this section is the same as the “Local: public”, it just uses another folder than public.

When the job has been set up correctly, please click add to add it to the backup list

If desired, the job can be run manually, click “Go” to run the process.

Backup

Backup job list:

ID	Source	Destination	Scheduling	Status	Oprations	Enabled
1	Type: remote Protocol: smb Host: 192.168.0.70 Port: Share: cnpaf Path: yujia.rmvb Login: Password: xxxxxx	Type: local Path: /mnt/data/public	No scheduling	Running	<div>Go</div> <div>Del</div> <div>VL</div> <div>CL</div>	<input checked="" type="checkbox"/>

Go=Start job Del=Delete job VL=View logs CL=Clear logs

Add a Backup Job

Refresh

4.3.14 BitTorrent

A NAS server hard disk is required to use this function.

Daemon Management

Auto Start:

☐ Enable ☒ Disable

BT Server:

Start

Stop

Set Initial State

Server Status:

Stopped

[Goto Bittorrent Management Page](#)

Apply

Cancel

Auto Start	Select Enable to start the BitTorrent part of the NAS when the NAS server starts. Disable will disable this function.
BT Server	Click “Start” to start the BT server; click “Stop” to stop the BT server; click “Set Initial State” to restore the BT server to its initial state
Server Status	Show the status about the BT server running or stopped.
Goto Bittorrent Management Page	If the BT server is not running, the button is grey. If enabled, you can click here to go to the BitTorrent Management page.

BitTorrent Management							
ID	File Name	Total Size	Progress(Status)	DL/UL Speed	Seeders/Leechers	Remain Time	Opration
<div>Global Settings</div> <div>Add A New Job</div> <div>Refresh</div> <div>Return</div>							

Global settings

Here it is possible to choose which folder to store the torrent files in.

The max download and upload rate can be limited to a specific download and or upload rate.

Seed options:

Seed infinitely – After the downloaded finish. The file will seed until stopped.

Global Settings

Download destination:

Path: /mnt/data/public

Network:

Set TCP source port: 51413

Bandwidth limitation:

- Download rate: 0 KB/s
- Upload rate: 0 KB/s

Seed Options

- Stop jobs if they halt for no limit

Save

Cancel

Add a new job

Download a Bit Torrent seed (*.torrent) you want from the internet. And use this function to add the job.

Add a Bit Torrent

Please choose a torrent file to upload!

Browse...

upload

cancel

After finished uploading the right .torrent file, click on "Upload" to add the download.

BitTorrent Management							
ID	File Name	Total Size	Progress(Status)	DL/UL Speed	Seeders/Leechers	Remain Time	Operation
1	Beijing.Olympics.2008.Opening.Ceremony.720p.HDTV.x264-ORENJI	4.92 GB	0.00% (downloading)	0.00 B/s 0.00 B/s	0 0	-----	
<div> Global Settings Add A New Job Refresh Return </div>							

There are four operations we can do:

Detail	Show the detail information of the job.
Start	If you want to running the job clicks this button.
Stop	If you want to stop the job click this button.
Delete	Stop and delete the job then you can add other jobs

Please note: It is possible to add up to 10 jobs. Only 2 jobs can run at the same time.

4.3.15 Tools

4.3.15.1 Restart Device

Restart the NAS immediately.

Restart Device

Click the button below to restart the device.

Restart Now

4.3.15.2 Hard Disk Utilities

Hard Disk Utilities

Note: This tool is for NAS-HDD only. You need an HDD with at least 1G to perform these operations. RAID function requires 2 hard drives.

Attached Device:

>>
<<

Raid Device:

SDA
SDB

☒ Enable operation on raid
☒ Use Raid 0
☐ Use Raid 1
☐ Raid Linear

Port:

ID:

Size:

☒ Format to XFS
☐ Format to FAT32
☐ Format to EXT2
☐ Format to EXT3

Format

Two functions can be found in this option.

1. **Format:** Format a hard disk for use with the NAS server (User management ONLY works on a hard disk installed inside the NAS server).
 - Hard drive capacity must be at least 10GB.
2. **Raid:** Please select the hard drive and then set which one of the Raid mode to use, then go back to step 1 and continue.

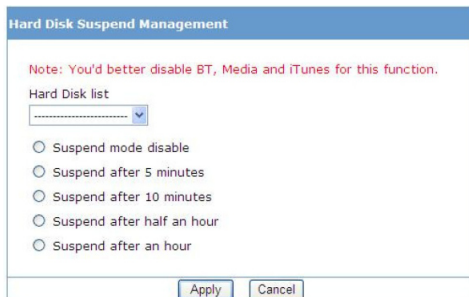
For information about RAID, please see appendix 1

Hard disk Suspend

You can setup the time before the NAS server enters Sleep mode to save power. The sleep time is activated only when no input or output is detected for the time duration set.

4.3.15.3 Hard disk Suspend Management

You can setup the time before the NAS server enters Sleep mode to save power. The sleep time is activated only when no input or output is detected for the time duration set.



Hard Disk Suspend Management

Note: You'd better disable BT, Media and iTunes for this function.

Hard Disk list

----- ▾

☐ Suspend mode disable

☐ Suspend after 5 minutes

☐ Suspend after 10 minutes

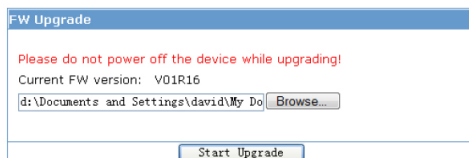
☐ Suspend after half an hour

☐ Suspend after an hour

Apply Cancel

4.3.15.4 Firmware Upgrade

If a new firmware is released for the NAS server it is possible to update the NAS server in this menu. An update will take about 1 to 2 minutes to complete.



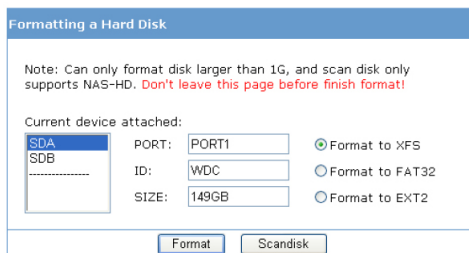
FW Upgrade

Please do not power off the device while upgrading!

Current FW version: V01R16

d:\Documents and Settings\david\My Do Browse...

Start Upgrade



Formatting a Hard Disk

Note: Can only format disk larger than 1G, and scan disk only supports NAS-HD. Don't leave this page before finish format!

Current device attached:

SDA SDB -----

PORT: PORT1 ID: WDC SIZE: 149GB

☒ Format to XFS ☐ Format to FAT32 ☐ Format to EXT2

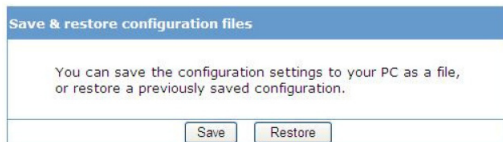
Format Scandisk

Two functions can be found in this menu.

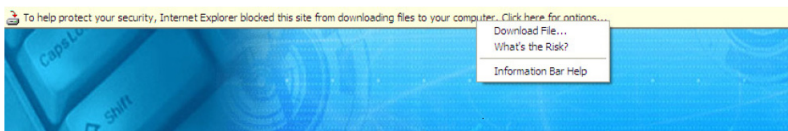
1. **Format:** Format a hard disk into a NAS hard disk (User management ONLY works on a NAS server hard disk). And the size of hard disk minimum requirement is 10GB.
2. **Scandisk:** Can be use to check and repair damaged files on the NAS server hard disk.

4.3.15.5 Save & Restore Configuration Files

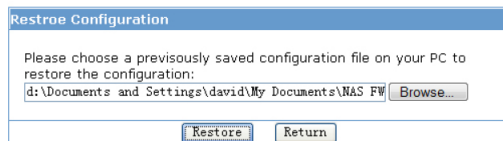
This menu gives the possibility to backup or restore the NAS server settings to or from an external device.



Save: The configuration file will be downloaded (Internet Explorer users will need to click on the protection bar on top and click choose "Download File")

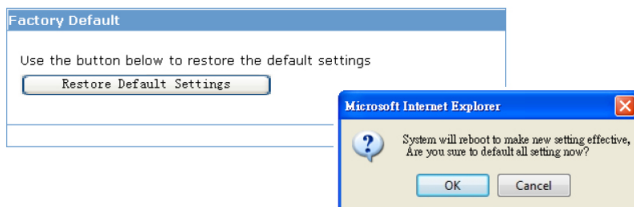


Restore: This function gives the option of restoring the NAS server configuration from a previously saved configuration.



4.3.15.6 Factory Default

Only use this function if you wish to restore the factory settings. Please note that all settings in the NAS server is deleted and the original factory configuration is restored.



4.3.15.7 Security Setting

The username and password of the NAS server can be changed here.

Security setting

Change the web administrator's name & password.

User Name:

Old Password:

New Name:

New Password:

Confirm New Password:

4.3.15.8 System Log

An activity log from the NAS server can be viewed here.

System Log

Index	Log content
1	[09/12/2005 11:58:55]: Restore configuration file failed.
2	[09/12/2005 10:42:18]: Current IP is 192.168.1.211
3	[09/12/2005 10:41:03]: Share folder P2_A_1 removed.
4	[09/12/2005 10:38:16]: Current IP is 192.168.1.211
5	[09/12/2005 10:37:37]: Current IP is 192.168.2.211
6	[09/12/2005 10:36:27]: Current IP is 192.168.2.211
7	[09/12/2005 10:35:27]: Share admin already exist.
8	[09/12/2005 10:35:27]: Share public already exist.
9	[09/12/2005 10:35:20]: USB device partition shared as P2_A_1.

4.3.15.9 E-mail sending

This page allows the server to send an E-mail if important changes are made to the NAS server or if the NAS server encounters severe problems such as a crash or hard disk failure.

E-mail Sending

☐ Send me an e-mail when important settings changed or severe problems occurred.

SMTP Server:

Server Port:

Sender Email Address:

Receiver Email Address:

Subject:

Send me an E-mail when important settings changed or severe problems occurred: enables the sending of E-mails when changes are made or problems occur within the NAS server.

SMTP Server: enter the name of the SMTP server that is to send the mail, please obtain the SMTP server from the E-mail provider.

Server port: this port needs to be entered so that the SMTP server entered above sends through the correct port. Please obtain the server port from the E-mail provider.

Sender E-mail Address: enter the E-mail address that will be sending the mail

Receiver E-mail Address: enter the E-mail address of the recipient of the mail

Subject: Enter the subject of the E-mail

FAQ	
Question	Answer
The web menu has a different background	Appearances vary with firmware versions. Please use the latest firmware available for the NAS server.
Where can I find the latest firmware for the NAS server	The latest firmware and manual can be downloaded from www.unisupport.net where you will also find additional FAQ about the NAS server
Can I connect the NAS server directly to my computer	No the NAS server must be connected to a network
How do I access the NAS	UPNP does not support ISO files.
In UPNP I cannot access my ISO files	UPNP does not support ISO files.
Shortcuts in media boxes	If the mediabox supports shortcuts in network, it is a very good idea to add shortcuts to the NAS server. The way of adding shortcuts is described in the user manual of the mediabox

Power consumption:

Turned off power switch rear: 0.2 watt

Typical On with one active hard drive: 12.0 watt *1

Typical On with one hard drive in sleep mode: 12.0 watt

Typical On with two active hard drives: 16.5 watt *1

Typical On with two hard drives in sleep mode: 10.32 watt

Typical On without hard drive: 4.0 watt

*1 Power consumption will vary depending on the type of the hard drive. The hard drives used for the test are 250GB Seagate Barracuda 7200rpm

Appendix 1

What is RAID?

RAID, short for Redundant Array of Independent Disks, is a combination of two or more disks with the aim of providing fault tolerance and improving performance. There are several different levels of RAID, with each providing a different method of sharing or distributing data amongst the drives. The NAS server supports RAID levels 0, Linear and 1.

Advanced definition of raid 0 and Raid Linear

RAID 0 provides data striping, which spreads out blocks of data over both drives, but does not provide data redundancy.

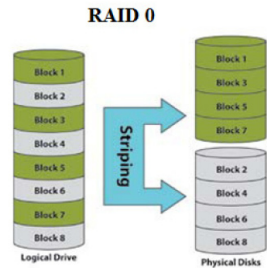
Although performance is improved, the lack of fault tolerance means that if one drive fails, all data in the array will be lost.

RAID Linear is much like RAID 0 except that data is stored randomly across the disks, not stiped

Simple definition of raid of raid 0 and Raid Linear

RAID 0 and RAID Linear puts disks together to create a Larger storage capacity.

RAID 0 and RAID Linear is faster than using one disk as parts of the data is stored on both disks. This option is not as secure as **RAID 1** as if one disk failsAll data is lost.



Advanced definition of Raid 1

RAID 1 provides mirroring over both disks, with the same read/write speed of a single disk.

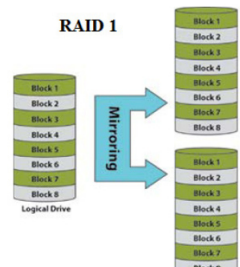
A **RAID 1** array can only be as large as it's smallest member disk.

Because the data is stored on both disks,

RAID 1 provides fault tolerance and protection, in addition to performance advantages

Simple definition of Raid 1

RAID 1 makes an identical copy of the data from disk 1 to disk 2 so the same data is stored on both disks, this makes this option more secure as if one disk fails, the other one is still operational. The failed disk can be changed to a new disk and **RAID 1** can be enabled on the new disk and the **RAID 1** mirror copy is redone and the data is secure again.



DISPOSAL



Electrical and electronic equipment (EEE) contains materials, parts and substances, which can be dangerous to the environment and harmful to human health if waste of electrical and electronic equipment (WEEE) is not disposed of correctly.

Equipment, which is marked with the WEEE logo (as shown on the left), should not be thrown away with your household waste. Contact your Local Authority Waste Disposal Department, as they will be able to provide details of the recycling options available in your area.