



# 2-Bay SATA NAS RAID Server NAS-7201



## User's Manual

Version 2.0

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## Revision

User's Manual for PLANET 2-Bay SATA NAS RAID Server

Model: NAS-7201

Rev: 2.00 (April. 2010)

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# 1.Introduction

Thank you for purchasing NAS-7201. It is a flexible, economical and powerful solution for your network storage application. The following instructions will help you to learn more about the connections, set-ups, and configurations of it.

## 1.1 Overview

This user's manual explains how to operate the NAS-7201 from a computer. Basically, the user's manual is written to be read on the computer display. However, users might consider printing it out to access easily and read it before you operate the NAS-7201. This manual shows how to set up the NAS-7201.

## 1.2 Key Features

- Support RAID 0, 1 and JBOD
- Provides Scalability up to 2TB (with TWO 1TB HDD)
- 2 Standard USB 2.0 Port for External USB HDD and Print Server Sharing
- Supports Windows Utility and Web Base Manage Internet
- Share Music, Pictures, Movies and Data over Network
- Supports BT Download
- Interface: 10/100/1000 Base-TX(Auto MDI/MDI-X), supports auto crossover detection
- Supports most popular OS including Windows VISTA/XP/2000, Mac OS x v10.2.1 or above, Linux.

## 1.3 Package Contents

NAS-7201 x 1

Power Adapter x 1

RJ-45 Cable x 1

CD Disk x 1

Quick Installation Guide x 1

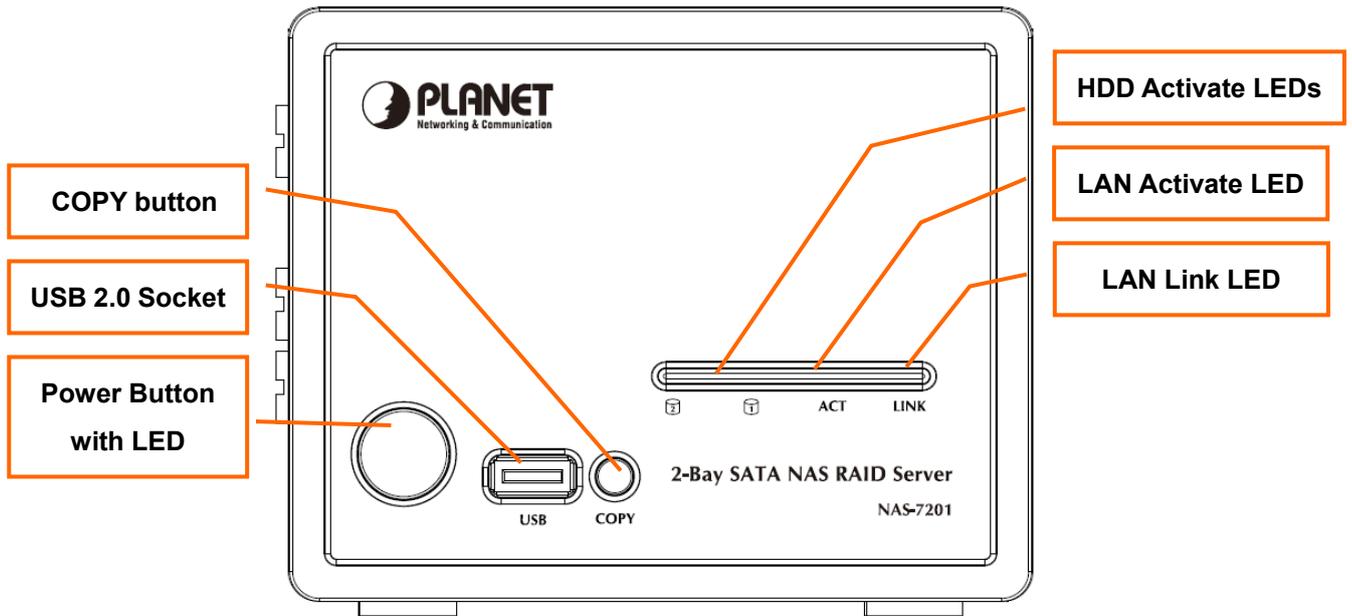
### Note

- 
1. If any of the above items are missing, please contact your dealer immediately.
  2. Using the power supply that is not the one included in unit packet will cause damage and void the warranty for this product.
-

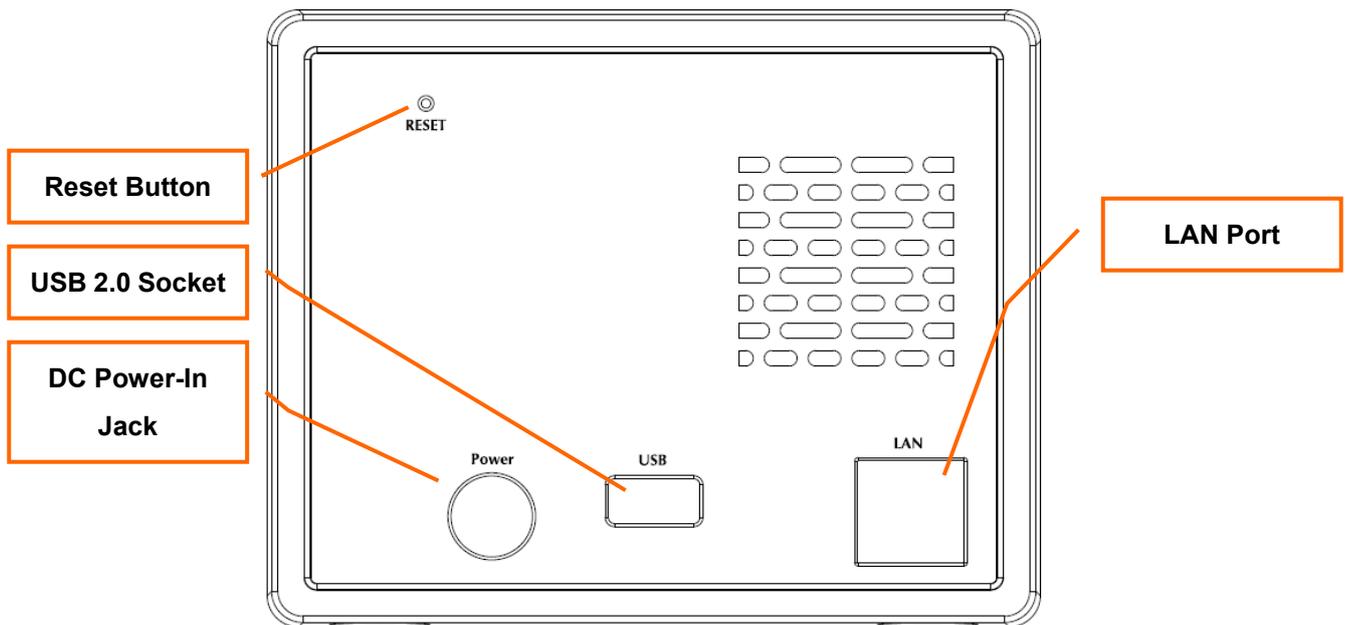
# 2.Front and Rear Panel

## Physical Details

The following figure illustrates the front/rear panel of NAS-7201.



Front view of NAS-7201



Rear view of NAS-7201

## Button Description

1	<b>Power</b>	Push to turn on or off NAS-7201.
2	<b>Copy</b>	Copy the USB storage data onto the NAS server, please press and hold this over 3 – 5 second to active it.
3	<b>Reset</b>	Press 10 sec to restore factory default.

## LED Indication Description

1	<b>HDD Activate</b>	Activity read/write status of HDD1 and HDD2.
2	<b>LAN Activate</b>	Activity status of Ethernet.
3	<b>LAN Link</b>	Link status of Ethernet.

## Physical Interfaces

1	<b>USB Socket:</b>	Connects to USB printers and USB Storage Devices.
2	<b>LAN Port</b>	Connects to the Ethernet cable with RJ-45 connector.
3	<b>DC Power-In jack:</b>	Connects to the AC adapter.

## 2.1 Hardware Installation

### Step 1: Remove the Front Case

Follow the figure below to release the screws and open the front case with the direction. Slightly push the front case and lift up the plastic case.

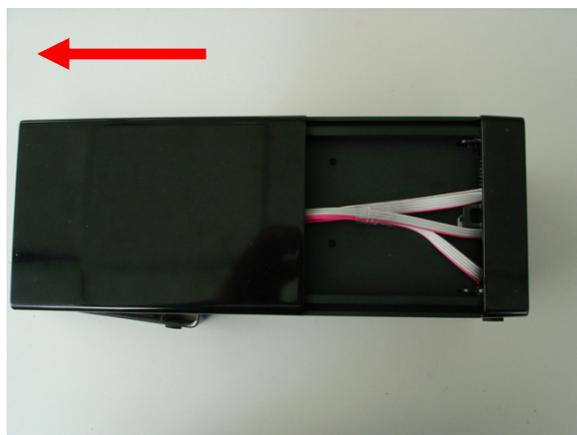


#### Note

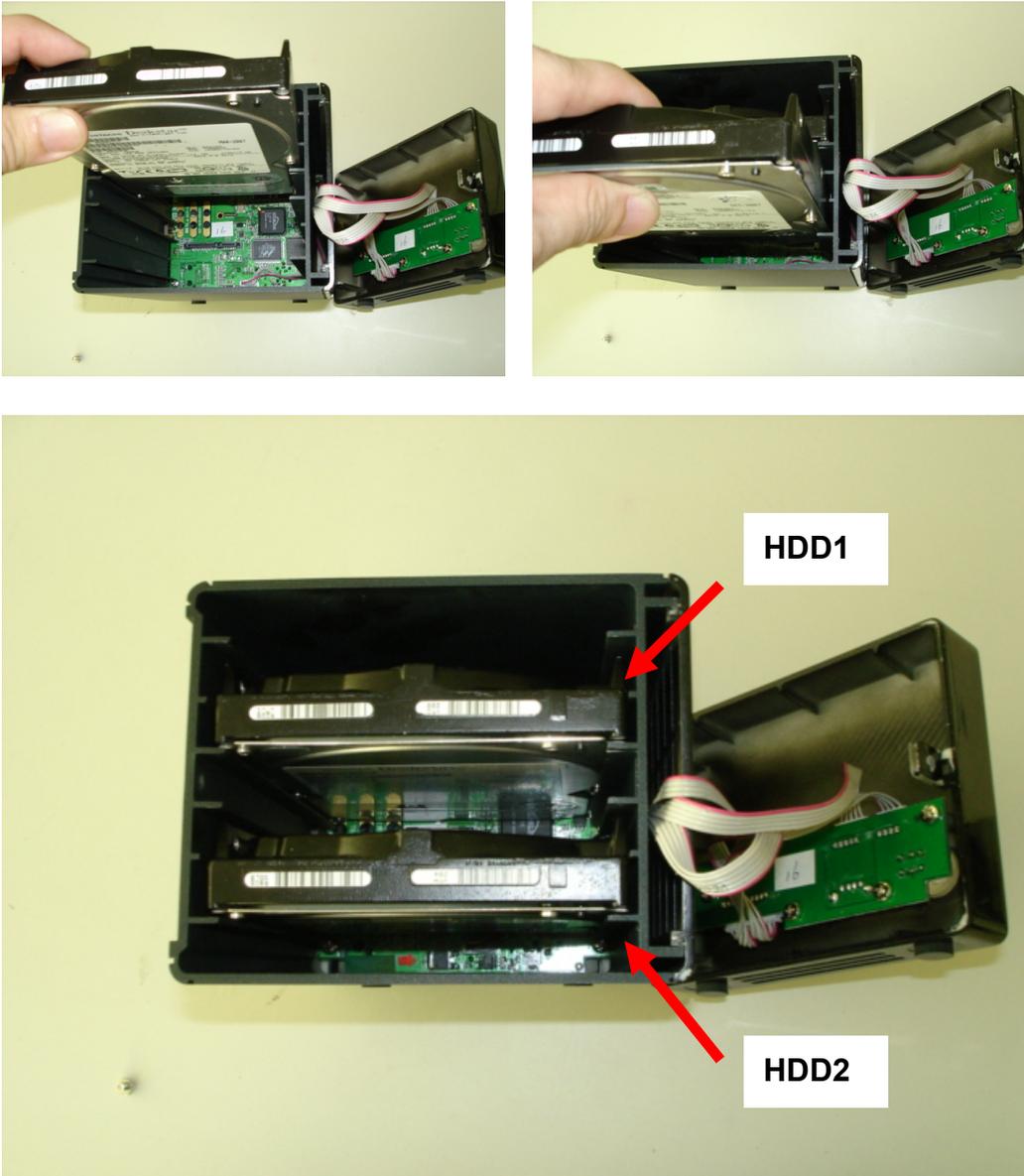
When lift up the front case, please be careful for the LED wire that connect to the front panel LED

### Step 2: Pull out the side case

Also pull out the side case to locate the HDD mounting screws. This operation is optional



### Step 3: Slide in the HDDs



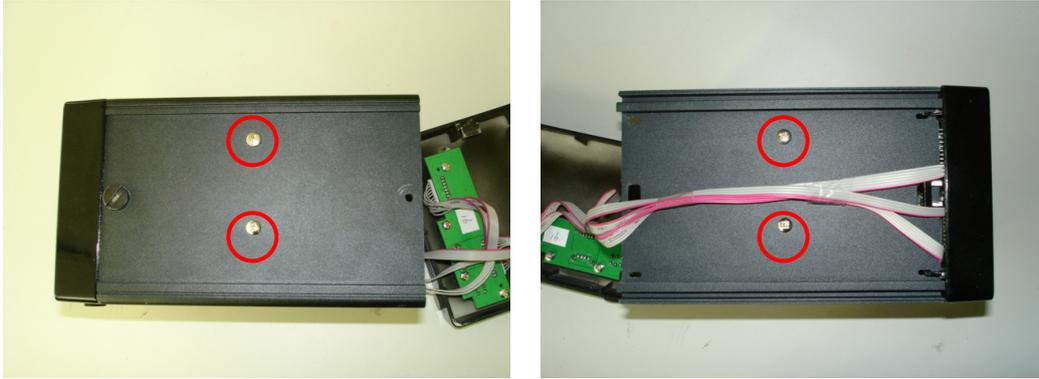
Gently slide in the SATA HDD one by one as the figure. When HDD touch the SATA connector, slightly push the HDD to make it well connected to the SATA interface of the RAID Server

#### **Caution**

Before slide in the HDD, please do make sure the HDD is in the correct direction. Slide in and push the HDD with violent could damage the SATA interface of the RAID Server.

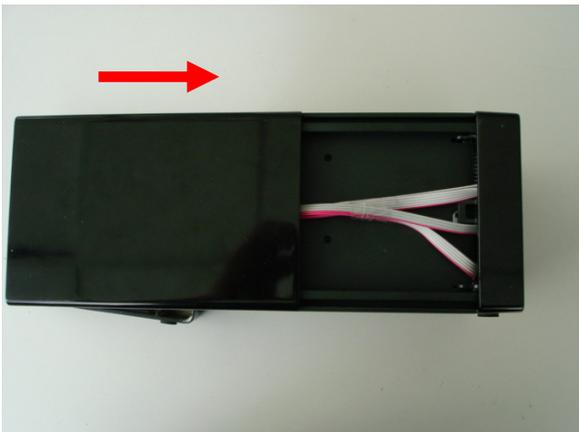
#### Step 4. Lock the HDD

To lock the HDD through two screws so that the HDD can well connected to the NAS server.



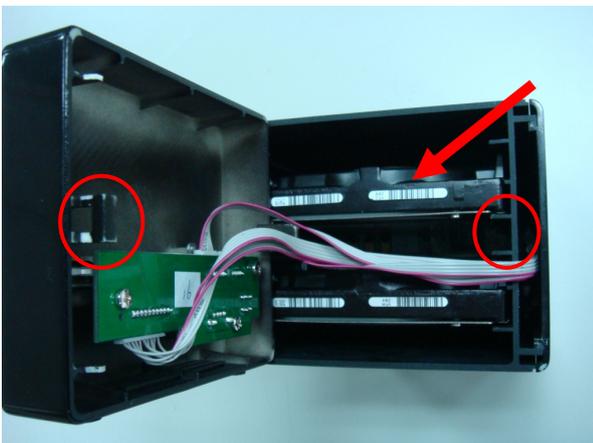
#### Step 5 Slide back the side case

After the HDD is installed, lock the HDD with screws and slide back the case.



#### Step 6 Lock the front case

Follow the figure below to put back the front case.



Be careful for the LED wires. Please align the LED wires to the space between the two HDD and close the case gently then push with the direction

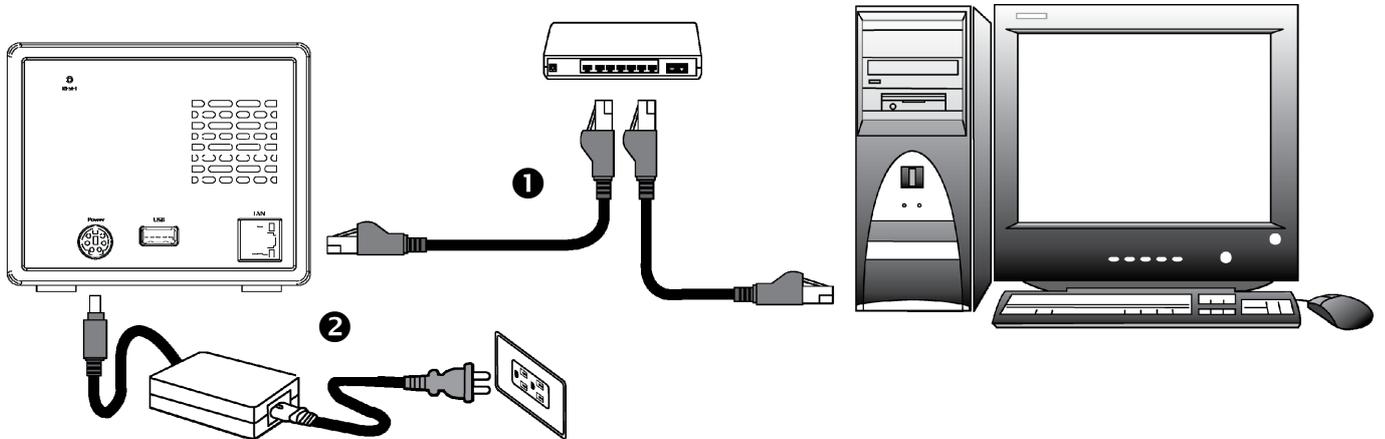


Pull the case back and follow the arrow direction to push the front case. Lock the case with the screw.



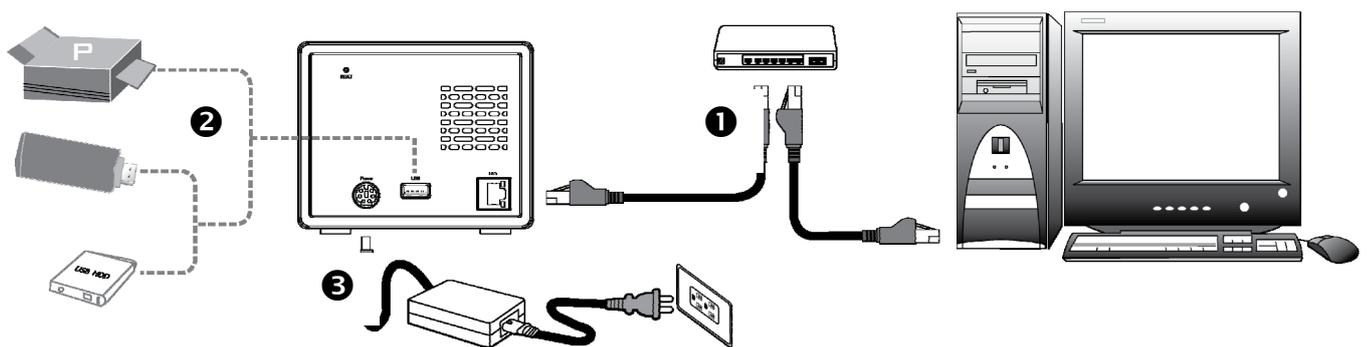
## 2.2 Connection and Removing Connection

### 2.2.1 Network Connection



- ❶: Connect NAS-7201 and a Switch, Hub, Router, or a computer with a RJ-45 Ethernet cable.
- ❷: Connect the power supply to NAS-7201.
- ❸: Press the “Power button” to turn on NAS-7201. The HDD activate LED on the front cover will light up during booting-up. This device will be ready to use when the blue LED lights up steadily.

### 2.2.2 USB Printer & Storage Device Connection



Steps: Description  
Connect NAS-7101 and a Switch, Hub, Router, or computer with a RJ-45 Ethernet cable.

- 1 Connect NAS-7201 and a Switch, Hub, Router, or computer with RJ-45 Ethernet cable.
- 2 Connect USB printer(s) or USB storage device(s) to this device with USB cable(s). NAS-7201 can automatically mount the USB devices connected.

- 3 Connect the power supply to NAS-7201.
- 4 Press the “Power button” to turn on NAS-7201. The HDD activate LED on the front panel will light up during booting-up. NAS-7201 will be ready to use when the blue LED lights up steadily.

## 2.3 Removing Connection

### 2.3.1 Removing USB Mass Storage Devices

NAS-7201 will auto-mount a USB Storage Device connected to it. But you need to manually unmount the USB Storage Device before disconnecting it. You can unmount a USB drive by **Control Panel > Maintenance > Disk Utility > clicking “Unmount” button**.

The screenshot shows the 'Disk Utility' window. On the left is a navigation menu with options: Users and Groups, File and Print, System, Network Service, Maintenance, Disk Utility (selected), RAID Setting, Firmware Upgrade, Save Configuration, Restore Configuration, Factory Reset, Software Update, and Log File. The main area contains a table with the following data:

Device Name	Type	Mount Point	Status	Encrypt:Password/Format Type/Format	Scandisk	Umount	Health
/dev/sda	vfat	/mnt/usb1	mounted	<input type="checkbox"/> encrypt ext2 Format	Scan	Umount	None Detail
/dev/hdd	none		raid used	<input type="checkbox"/> encrypt ext2 Format	Scan	Umount	PASSED Detail
/dev/hdc	none		raid used	<input type="checkbox"/> encrypt ext2 Format	Scan	Umount	PASSED Detail

At the bottom of the table is a 'Refresh' button.

### 2.3.2 Removing USB Printer

You have to unmount the printer before disconnecting it. You can unmount a USB printer by **Control Panel > File and Print > Printer Server > Unchecking “Enable” box**.

The screenshot shows the 'Printer Server Setting' window. On the left is a navigation menu with options: Users and Groups, File and Print, File Server, Share Management, Printer Server (selected), System, Network Service, Maintenance, and Log File. The main area contains the following settings:

**Printer Server Setting**

Enable

Printer Name usb1p0

Description (optional) HP Officejet 5600 series

Save

### 2.3.3 Removing Power connection

Press the “Power button” to turn off NAS-7201, and then remove its connections.

### 3. Setup Wizard

Insert the bundled CD into the CD-ROM drive to launch the autorun program. Once completed, a welcome menu screen will appear.

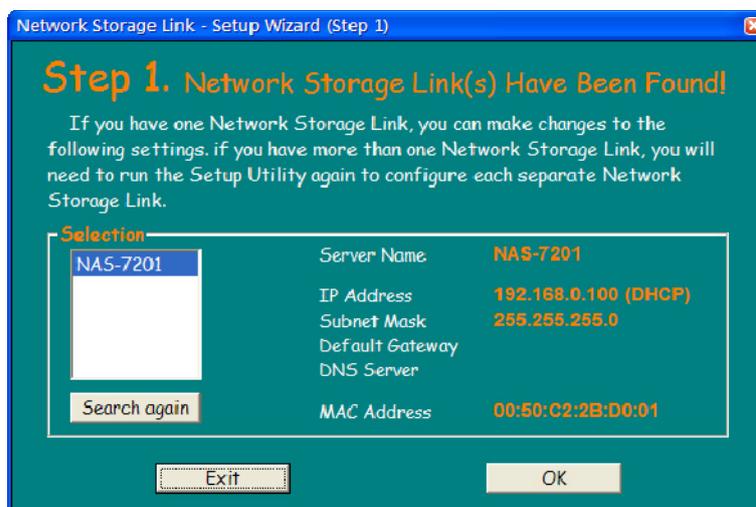
Click the "Setup Wizard" hyperlink; you will see the Setup Wizard dialog box as below. Click "Setup" to continue.

**Note**

If the welcome screen does not appear, please click "Start" at the taskbar. Then, select "Run" and type "D:\Utility\setup.exe", assume D is your CD-ROM driver.



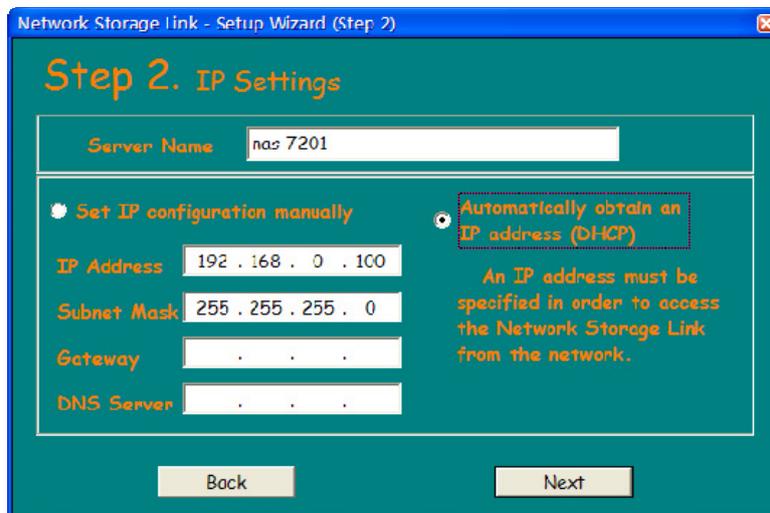
Press "Search again" button. Setup Wizard will list all network storage in your LAN environment. Please check next section. Please select your network storage and press "OK". User can setup IP address, day and time step by step.



Please enter password. Default password is: **admin**. Then click “OK”.



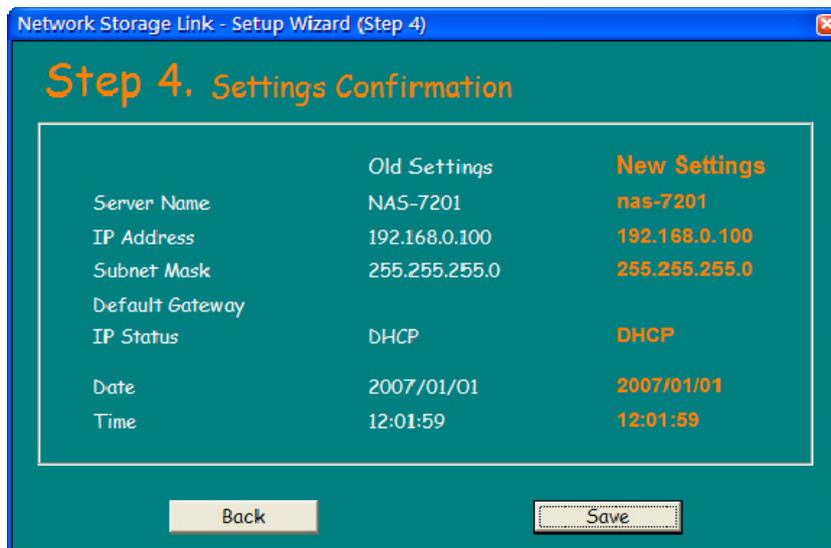
You can select “Set IP configuration manually” and enter the IP settings. Or select “Automatically obtain an IP address (DHCP)” when there is a DHCP server in your network.



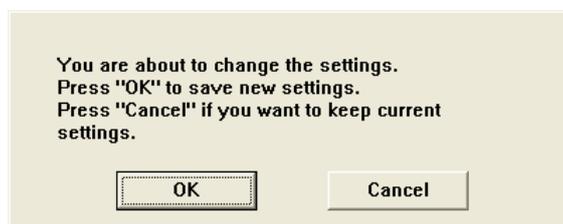
You may change the time zone, date and time to your network storage and press “Next” to continue.



This page shows the new configurations. If it is correct, please press "Save" button and the setting information will be save to your network storage.



You are about to change the settings. Press "OK" to save new settings. Press "Cancel" if you want to keep current settings.



Click "Exit" button to close Setup Wizard.



# 4. Web-based Management

This chapter illustrates basic installation of NAS-7201

- Network cables. Use standard 10/100BaseT network (UTP) cables with RJ45 connectors.
- TCP/IP protocol must be installed on all PCs.

## 4.1 Web Management Login

### Administration Interface

---

PLANET NAS Server provides GUI (Web based, Graphical User Interface) for machine management and administration.

#### Web configuration access

To start NAS-7201 web configuration, you must have one of these web browsers installed on computer for management

- Microsoft Internet Explorer 6.00 or higher with Java support

Default LAN interface IP address of NAS-7201 is **192.168.0.100**. You may now open your web browser, and insert <http://192.168.0.100> in the address bar of web browser to login web configuration page.



The login window of NAS-7201 will appear, Default login username/password is: **admin / admin**



**NAS-7201 log in page**

## 4.2 Quick Setup

### 4.2.1 Wizard

To setup basic configurations of NAS-7201, follow the diagram below.

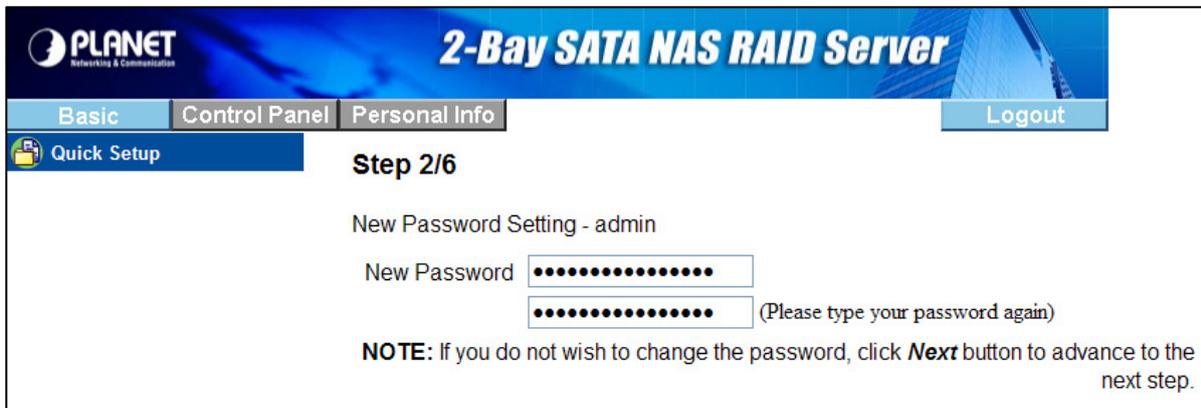
Wizard for Quick Setup of the NAS-7201, after finishing the authentication, the Main menu will display 6 parts of configuration, please click “**Wizard Setup**” to enter quick start:

**Step 1 :** Language Setting. Specify the language of this GUI.



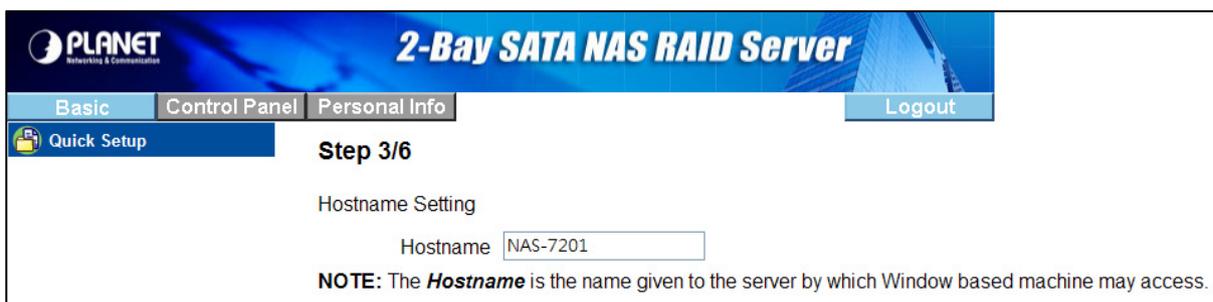
The screenshot shows the Planet 2-Bay SATA NAS RAID Server Quick Setup Wizard. The interface has a blue header with the Planet logo and the product name. Below the header is a navigation bar with tabs for 'Basic', 'Control Panel', 'Personal Info', and 'Logout'. The 'Quick Setup' menu is open, showing options for 'Wizard', 'Add User', 'Add Group', and 'Add Share'. The main content area displays 'Step 1/6' and 'Preference Language Setting - admin'. There is a 'Language Preference' dropdown menu currently set to 'English'.

**Step 2 :** Password Setting. Click “Next” to skip password change.



The screenshot shows the Planet 2-Bay SATA NAS RAID Server Quick Setup Wizard. The interface has a blue header with the Planet logo and the product name. Below the header is a navigation bar with tabs for 'Basic', 'Control Panel', 'Personal Info', and 'Logout'. The 'Quick Setup' menu is open, showing options for 'Wizard', 'Add User', 'Add Group', and 'Add Share'. The main content area displays 'Step 2/6' and 'New Password Setting - admin'. There are two password input fields, both filled with dots. The second field has a note: '(Please type your password again)'. Below the fields is a 'NOTE' stating: 'If you do not wish to change the password, click **Next** button to advance to the next step.'

**Step 3 :** Hostname Setting. This hostname can be seen in My Neighborhood.



The screenshot shows the Planet 2-Bay SATA NAS RAID Server Quick Setup Wizard. The interface has a blue header with the Planet logo and the product name. Below the header is a navigation bar with tabs for 'Basic', 'Control Panel', 'Personal Info', and 'Logout'. The 'Quick Setup' menu is open, showing options for 'Wizard', 'Add User', 'Add Group', and 'Add Share'. The main content area displays 'Step 3/6' and 'Hostname Setting'. There is a 'Hostname' input field containing the text 'NAS-7201'. Below the field is a 'NOTE' stating: 'The **Hostname** is the name given to the server by which Window based machine may access.'

**Step 4 :** Internet Protocol Setting. You may specify a stationary IP address/DNS server address or enable the “Obtain IP address/DNS server address automatically” checkbox, depending on your LAN configuration.

**PLANET** Networking & Communication **2-Bay SATA NAS RAID Server**

Basic Control Panel Personal Info Logout

Quick Setup **Step 4/6**

Internet Protocol Setting

IP Address  Obtain IP Address automatically  
 Use following IP Address

IP Address      
 Subnet Mask      
 Default Gateway

DNS Server  Obtain DNS Server Address automatically  
 Use following DNS Server Address

Primary      
 Secondary      
 Others

**Step 5 :** Time Setting. Adjust date, time, and time zone of your local position. Or select a NTP(Network Time Protocol) server for automatic time setting and calibration.

**PLANET** Networking & Communication **2-Bay SATA NAS RAID Server**

Basic Control Panel Personal Info Logout

Quick Setup **Step 5/6**

Time Settings

Date Month  Day  Year   
 Time Hour  Minute    
 Time Zone   
 NTP Server  Default   
 User Define

**Step 6 :** Wizard Setting Confirmation. Click complete to implement above settings.

**Step 6/6**

Wizard Setting Confirmation

	Current Settings	New Settings
UI Language	English	<a href="#">English</a>
Hostname	NAS-7201	<a href="#">NAS-7201</a>
IP Address	Automatic Obtain	<a href="#">Automatic Obtain</a>
	IP Address	<a href="#">IP Address</a>
	Subnet Mask	<a href="#">Subnet Mask</a>
	Default Gateway	<a href="#">Default Gateway</a>
DNS Server	Automatic Obtain	<a href="#">Automatic Obtain</a>
	Primary	<a href="#">Primary</a>
	Secondary	<a href="#">Secondary</a>
	Others	<a href="#">Others</a>
Date and Time	1/ 1/2007 0: 9 PM	<a href="#">9/ 9/2008 0: 9 PM</a>
Time Zone	Taipei	<a href="#">Taipei</a>

#### 4.2.2 Add User

To add user support, select the Add User chapter for setting. Please refer to Users and Groups chapter for more detail.

**Step 1 :** Add User. Setup user name and password. Check “Crate Private Folder” box for creating a home directly of this user.

**Step 1/3**

Add User

User Name

Password

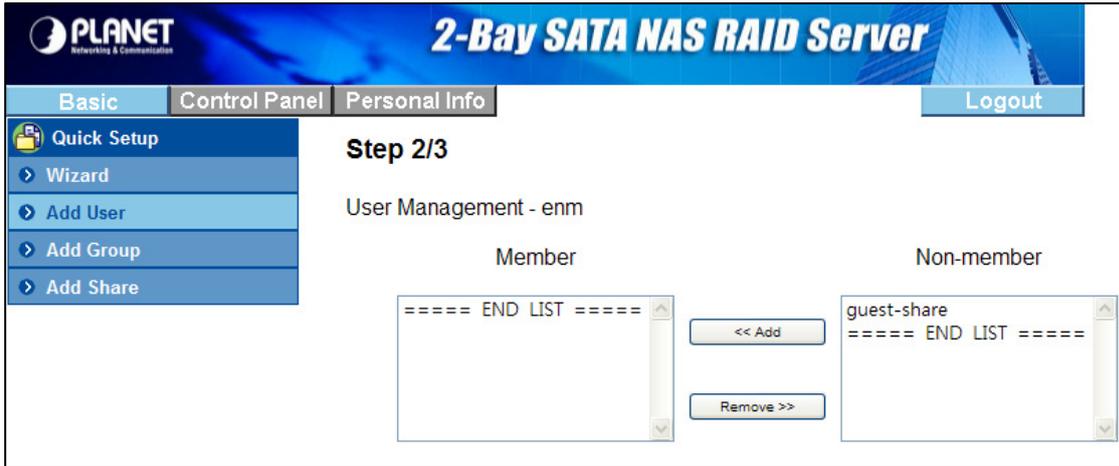
Please type your password again

Description (optional)

Create Shared private Folder  
Shared Private Folder Location

Enable Quota of  MB

**Step 2 :** User Management. Add/remove this user to/from an existing group.



**Step 3 :** Share Permission. Set user permission of each shared directory. Select a share name from the “Access Denied” column and click “Read Only” or “Writable” to allow user access right. Select a share name from the “Access Granted” column and click “Remove” to disable user access right from this directory.



### 4.2.3 Add Group

To add group support, select the Add Group chapter for setting. Please refer to Users and Groups chapter for more detail.

**Step 1 :** Add Group. Set up group name.



**Step 2 :** Group Members. Set up group members. Select a user from the “Non- Members” column and click “**Add**” to categorize it into this group. Select a user from the “Members” column and click “**Remove**” to remove this user from this group.



**Step 3 :** Share Permission. Set group permission of each shared directory. Select a share name from the “Access Denied” column and click “**Read Only**” or “**Writable**” to allow group access right. Select a share name from the “Access Granted” column and click “**Remove**” to disable group access right from this directory.



## 4.2.4 Add Share

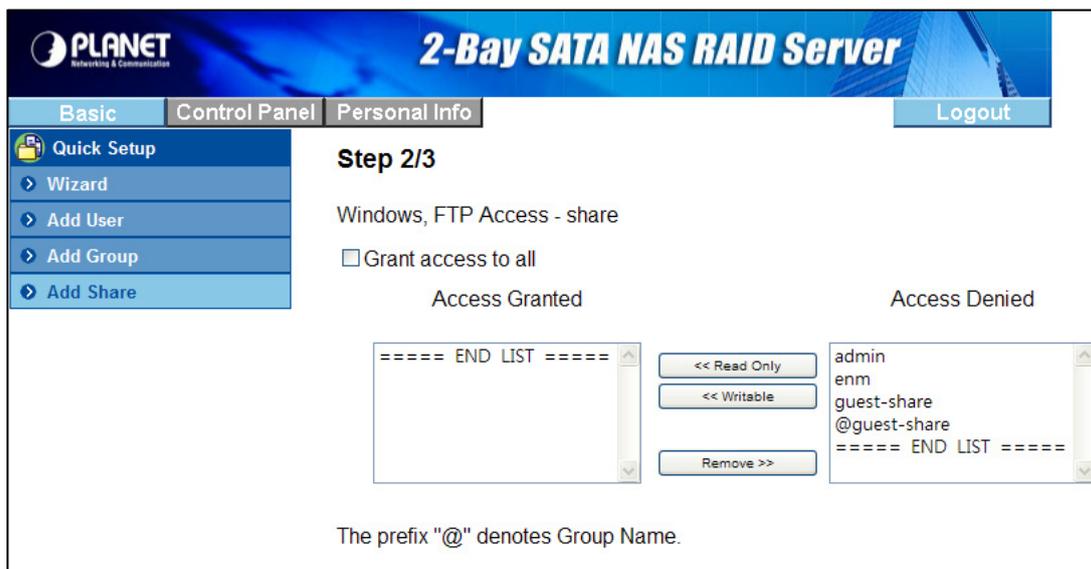
To add a sharing directory, select the Add Share chapter for setting. Please refer to Share Management chapter for more detail.

**Step 1 :** Add Share. Set up the directory name.



The screenshot shows the Planet 2-Bay SATA NAS RAID Server web interface. The top navigation bar includes 'Basic', 'Control Panel', 'Personal Info', and 'Logout'. The left sidebar has 'Quick Setup' with sub-items: 'Wizard', 'Add User', 'Add Group', and 'Add Share'. The main content area is titled 'Step 1/3 Add Share' and contains three input fields: 'Share Name' with the value 'share', 'Path' with the value '/mnt/md1/share', and 'Description (Optional)' which is empty.

**Step 2 :** Windows, FTP access. Set user/group permission of this directory in Microsoft Network and FTP environment. Select a share name from the “Access Denied” column and click “**Read Only**” or “**Writable**” to allow user/group access right. Select a share name from the “Access Granted” column and click “**Remove**” to disable user/group access right from this directory. Check the box “**Grant access to all**” will enable writable permission of this directory to all users/groups.



The screenshot shows the Planet 2-Bay SATA NAS RAID Server web interface at Step 2/3, titled 'Windows, FTP Access - share'. There is a checkbox for 'Grant access to all' which is currently unchecked. Below this are two columns: 'Access Granted' and 'Access Denied'. The 'Access Granted' column contains a list box with the text '==== END LIST ====='. The 'Access Denied' column contains a list box with the entries: 'admin', 'enm', 'guest-share', and '@guest-share', followed by '==== END LIST ====='. Between the list boxes are three buttons: '<< Read Only', '<< Writable', and 'Remove >>'. At the bottom, a note states: 'The prefix "@" denotes Group Name.'

**Step 3 :** NFS Access. Set IP access permissions of this shared directory in Unix-like environment. Input IP Address and click “Add” to add this IP to the allowed list. Input Subnet (the start of allowed IP address before the slash; the end of allowed IP address after the slash) and click Add to add this subnet section to the allowed list. Check “Allow to All” box to enable NFS access of this directory to all users.

The screenshot shows the Planet 2-Bay SATA NAS RAID Server web interface. The top navigation bar includes 'Basic', 'Control Panel', 'Personal Info', and 'Logout'. The left sidebar has a 'Quick Setup' menu with options: Wizard, Add User, Add Group, and Add Share. The main content area is titled 'Step 3/3' and 'NFS Access - share'. It features a checkbox for 'Grant access to all'. Below this is a section for 'Allowable IP/Subnet' with a list box containing '==== END LIST ====='. To the right of the list box are 'Add' and 'Remove' buttons. Further right are radio buttons for 'IP Address' (selected) and 'Subnet'. The IP Address section consists of four input fields for the IP address (e.g., . . . .) and a checkmark in the last field.

## 4.3 Users and Groups

### 4.3.1 User Management

All existing users in this system will be shown in this menu. You can create a new user by filling out the form and clicking the “**Save**” button. Select an existing user and click “**Delete User**” button to delete an existing user. Select an existing user and click “**Groups**” button to enter Group Management menu. Check “**Create Private Folder**” box for creating a home directory of this user.

The screenshot shows the Planet 2-Bay SATA NAS RAID Server web interface. The top navigation bar includes 'Basic', 'Control Panel', 'Personal Info', and 'Logout'. The left sidebar has a 'Users and Groups' menu with options: User Management, Group Management, File and Print, System, Network Service, Maintenance, and Log File. The main content area is titled 'User Management'. It features a list box for 'Existing Users' containing 'admin', 'enm', and 'guest-share', followed by '==== END LIST ====='. Below the list box are input fields for 'User Name', 'Password', and a second 'Password' field with the label 'Please type your password again'. There is also a 'Description (optional)' field. Below these are checkboxes for 'Create Shared private Folder' and 'Enable Quota of [ ] MB'. The 'Shared Private Folder Location' field contains '/mnt/md1'. At the bottom are buttons for 'Save', 'Clear Form', 'Groups', and 'Delete User'.

## 4.3.2 Group Management

All existing groups in this system will be shown in this menu. You can create a new group by filling out the form and clicking the “**Save**” button. Select an existing group and click “**Delete Group**” button to delete an existing group. You can also add or remove users from an existing group by selecting a group name and clicking the “**Members**” button.

The screenshot shows the 'Group Management' page. On the left is a navigation menu with 'Users and Groups' expanded to 'Group Management'. The main content area has a title 'Group Management' and a list of 'Existing Groups' containing 'guest-share' and '==== END LIST ====='. Below the list is a 'Group Name' input field and four buttons: 'Save', 'Clear Form', 'Members', and 'Delete Group'. The top navigation bar includes 'Basic', 'Control Panel', 'Personal Info', and 'Logout'.

## 4.4 File and Print

### 4.4.1 File Server

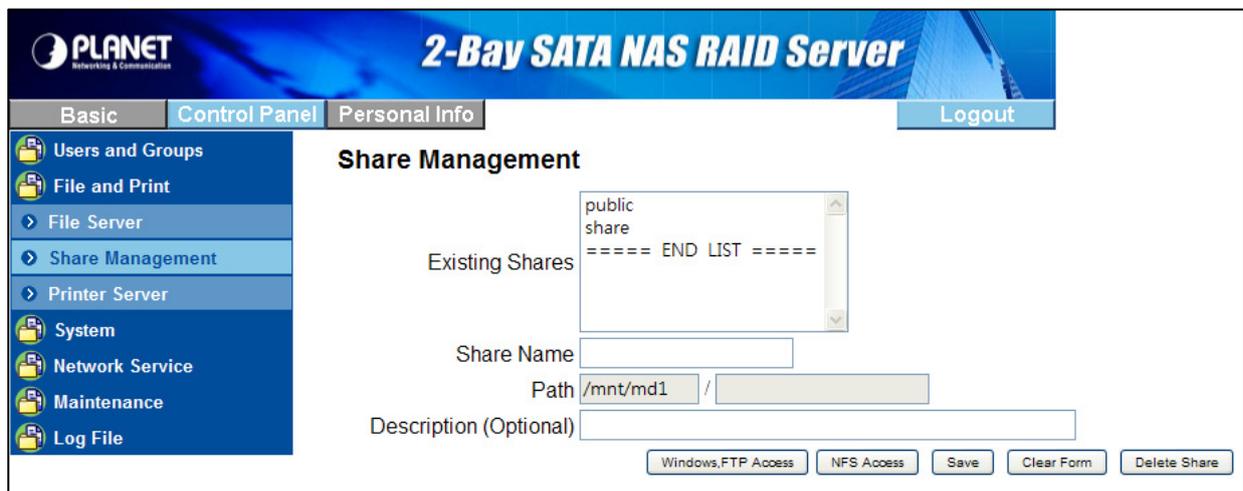
The administrator can use this option to add, modify or delete share folder and select whether folder can be exported via NFS to allow UNIX access only.

The screenshot shows the 'File Server Setting' page. The left navigation menu has 'File and Print' expanded to 'File Server'. The main content area is titled 'File Server Setting' and contains several sections: 'Character set' (Traditional Chinese (CP950)), 'Windows Setting' (Enable checked, Workgroup: WORKGROUP, Description: NAS-7210, WINS Server (Optional) empty), 'FTP Server Setting' (Enable checked, Enable FTP with TLS unchecked, Port Number: 21), 'NFS Server Setting' (Enable checked), and 'Guest Access Setting' (Enable checked, Enable Quota unchecked, Guest-user Quota: empty MB). A 'Save' button is at the bottom right. The top navigation bar includes 'Basic', 'Control Panel', 'Personal Info', and 'Logout'.

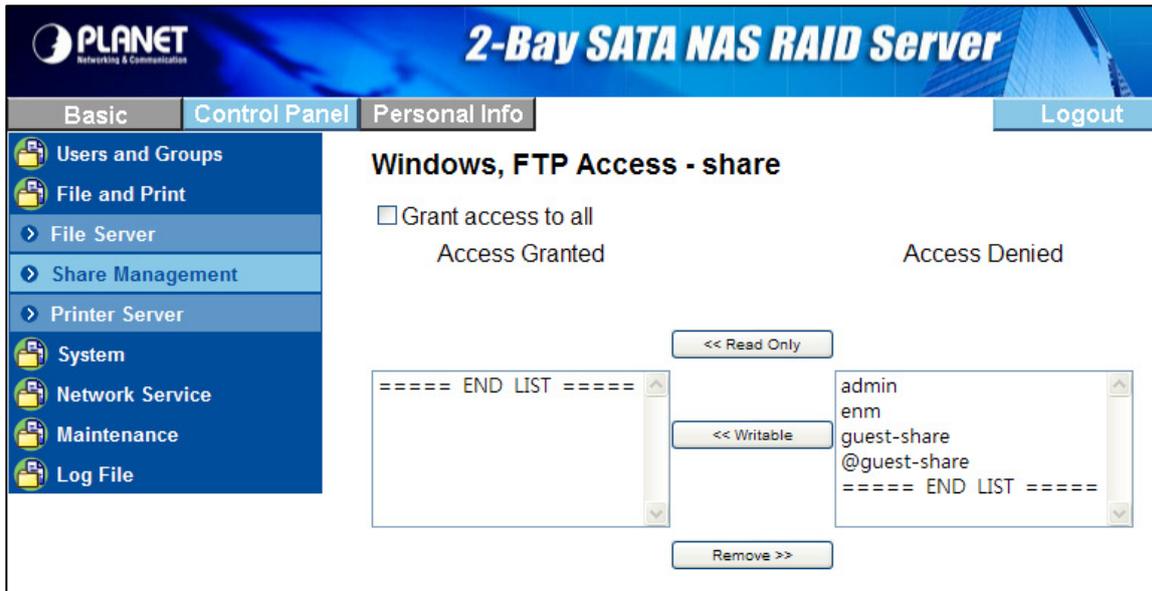
<b>Character Set</b>	Select your preferred character set.
<b>Windows Setting</b>	<p>Check <b>“Enable”</b> box to enable Microsoft Network connection</p> <p>Set Workgroup name for Microsoft Clients to access. You can find this Workgroup name in My Network Places.</p> <p>Set Description name for Microsoft Clients to access. You can find this Description name in <b>My Network Places/Entire Network/Microsoft Windows Network/“Workgroup name”/</b>.</p> <p>Define Windows Internet Server Name IP address if necessary.</p>
<b>FTP Server Setting</b>	Check <b>“Enable”</b> box to enable FTP server function, with default port 21.
<b>NFS Server Setting</b>	Check <b>“Enable”</b> box to enable NFS server function.
<b>Guest Access Setting</b>	Check <b>“Enable”</b> box to allow users using guest-share directory.

#### 4.4.2 Share Management

By default, NAT-7201 will automatic create a share folder named “public” on root directory, the share name and path of this folder cannot be changed by the administrator, any user logged into the NAS server has full read/write access privileges to the public folder.



<b>Creating Share</b>	Fill out the <b>“Share Name”</b> box, and then click the <b>“Save”</b> button to create a new share name.
<b>Property Change</b>	You can modify properties of an existing share name. Select a share name in the <b>“Existing Share”</b> column and click <b>“Windows, FTP Access”</b> or <b>“NFS Access”</b> button to set or remove read/write permissions of the selected directory.
<b>Delete Share</b>	Check <b>“Delete Share”</b> to delete a specified share name.



### Windows and FTP Access

Select a share name from the “Access Denied” column and click “**Read Only**” or “**Writable**” to allow user/group access right. Select a share name from the “Access Granted” column and click “**Remove**” to disable user/group access right from this directory. Check the box “**Grant access to all**” will enable writable permission of this directory to all users/groups.

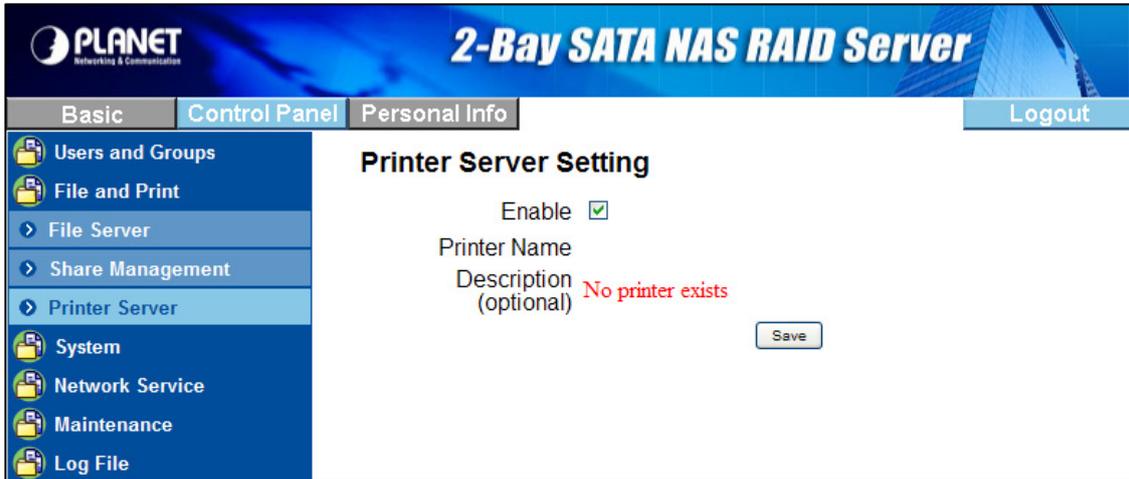


### NFS Access

Set IP access permissions of this shared directory in Unix-like environment. Input IP Address and click “**Add**” to add this IP to the allowed list. Input Subnet (the start of allowed IP address before the slash; the end of allowed IP address after the slash) and click **Add** to add this subnet section to the allowed list. Check “**Grant access to all**” box to enable NFS access of this directory to all users.

### 4.4.3 Printer Server

The NAS-7201 supports USB printer and it can share the printer after you connect one printer into one USB port.



Check “**Enable**” box to enable Printer Server function.

Uncheck “**Enable**” box to unmount a mounted printer.



This device detects the connection of a USB printer automatically. Information of the printer will be shown in the description.

## 4.5 System

### 4.5.1 LAN Settings

This screen allows you to set the IP Address and related information required for TCP/IP networks.

The screenshot shows the 'LAN Settings' page for a Planet NAS-7201 server. The interface includes a navigation menu on the left with options like 'Users and Groups', 'File and Print', 'System', 'LAN Settings', 'Time Settings', 'Turn Off Server', 'Information', 'Disk Usage', 'Error Notification', 'Network Service', 'Maintenance', and 'Log File'. The main content area is titled 'LAN Settings' and contains the following fields and options:

- Hostname:** A text input field containing 'NAS-7201'.
- IP Address Setting:** Two radio button options:
  - Obtain IP Address automatically
  - Use following IP Address
- IP Address:** A grid of four input fields with values 192, 168, 0, 100.
- Subnet Mask:** A grid of four input fields with values 255, 255, 255, 0.
- Default Gateway:** A grid of four input fields with values 192, 168, 0, 1.
- DNS Server Address:** Two radio button options:
  - Obtain DNS Server Address automatically
  - Use following DNS Server Address
- Primary:** A grid of four input fields with values 192, 168, 0, 1.
- Secondary:** A grid of four empty input fields.
- Others:** A grid of four empty input fields.
- MAC Address:** A text input field containing '00:30:4F:6B:3D:C4'.
- Save:** A button at the bottom right.

**Hostname** Assign a name to NAS-7201 as the identification within your local area network.

**Obtain IP Address Automatically** NAS-7201 obtains an IP address automatically if a DHCP server is present in the local area network.

**Use Following IP Address** Fill in the IP address, subnet mask, and Default gateway information if they are assigned by your network administrator.

#### IP Address Setting

**Obtain DNS Server Address Automatically** NAS-7201 obtains a DNS Server address automatically if a DHCP server is present in the local area network.

**Use Following DNS Server Address** Fill in the DNS server addresses if they are assigned by your network administrator.

## 4.5.2 Time Settings

This screen allows you to set current Date, Time, and Time zone. Specify a NTP Server if you want to get date and time from Time Server.

The screenshot shows the 'Time Settings' page. At the top, there is a header with the PLANET logo and the text '2-Bay SATA NAS RAID Server'. Below the header, there are navigation tabs: 'Basic', 'Control Panel', 'Personal Info', and 'Logout'. A left sidebar contains a menu with items: 'Users and Groups', 'File and Print', 'System', 'LAN Settings', 'Time Settings' (highlighted), 'Turn Off Server', 'Information', 'Disk Usage', and 'Error Notification'. The main content area is titled 'Time Settings' and contains the following fields:

- Date: Month 9, Day 9, Year 2008
- Time: Hour 12, Minute 52, PM
- Time Zone: (GMT+08:00) Taipei
- NTP Server:  Default (None),  User Define (empty text box)

At the bottom of the form are two buttons: 'Save' and 'Update Time'.

**Date & Time** Click this option to set time and date manually

**Time Zone** Set the time difference from Greenwich Mean Time in the area where the device is installed.

**NTP Server** Select default or type the host name or IP address or domain name of the NTP server in User Define box.

## 4.5.3 Turn Off Server

This screen let you can be safe shutdown or restart the NAS system.

The screenshot shows the 'Turn Off Server' page. At the top, there is a header with the PLANET logo and the text '2-Bay SATA NAS RAID Server'. Below the header, there are navigation tabs: 'Basic', 'Control Panel', 'Personal Info', and 'Logout'. A left sidebar contains a menu with items: 'Users and Groups', 'File and Print', 'System', 'LAN Settings', 'Time Settings', 'Turn Off Server' (highlighted), and 'Information'. The main content area is titled 'Turn Off Server' and contains the following text:

To restart the server, click the Restart button.  
To turn off the server, click the Turn off button.

At the bottom of the form are two buttons: 'Restart' and 'Turn off'.

#### 4.5.4 Information

This screen display system information

The screenshot shows the PLANET 2-Bay SATA NAS RAID Server web interface. The top navigation bar includes 'Basic', 'Control Panel', 'Personal Info', and 'Logout'. The left sidebar menu has 'Users and Groups', 'File and Print', 'System', 'LAN Settings', 'Time Settings', 'Turn Off Server', 'Information' (highlighted), 'Disk Usage', and 'Error Notification'. The main content area is titled 'System Information' and displays the following details:

Product Name	NAS-7201
Firmware Version	2.6.3-n.20080320
Product Vendor	PLANET Technology Corporation
IP Address	192.168.0.100

#### 4.5.5 Disk Usage

This screen display each HDD usage (total disk size, used disk size) and user's quota information.

The screenshot shows the PLANET 2-Bay SATA NAS RAID Server web interface. The top navigation bar includes 'Basic', 'Control Panel', 'Personal Info', and 'Logout'. The left sidebar menu has 'Users and Groups', 'File and Print', 'System', 'LAN Settings', 'Time Settings', 'Turn Off Server', 'Information', 'Disk Usage' (highlighted), and 'Error Notification'. The main content area is titled 'Disk Usage' and displays the following information:

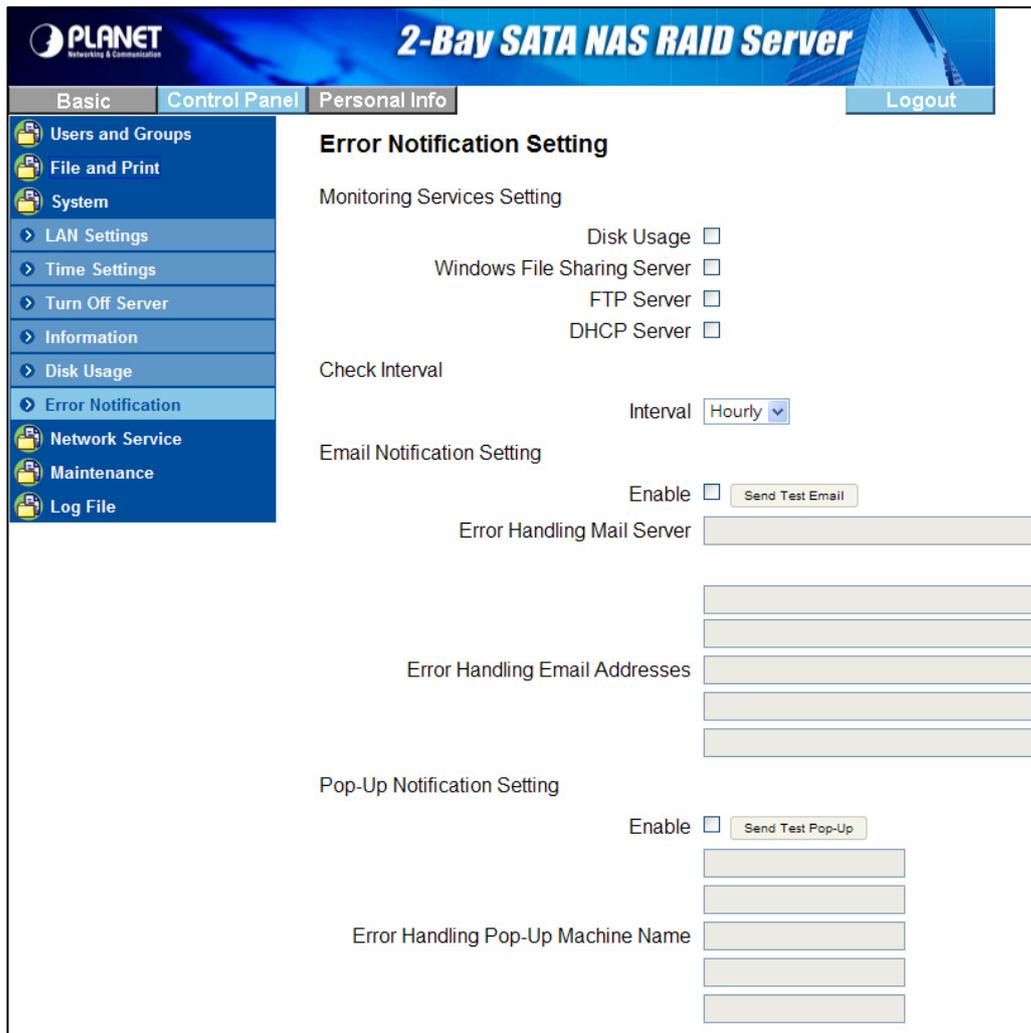
Last Checked: 1/1/2007 13:02:10

Please select statistics information:

Disk Name	Capacity	Used	Free	Disk Usage (%)
/dev/md	299696MB	723MB	298972MB	0%
/dev/sda	243MB	232MB	11MB	95%

### 4.5.6 Error Notification

This screen allow you to set up the system monitor service that will automatically notified the administrator through email or windows alerter messages service if the system error



<b>Monitoring Service Setting</b>	<b>Disk Usage</b>	If the disk usage reaches 90%, the system will inform the administrator.
	<b>Windows File Sharing Server</b>	If the SAMBA task goes wrong, the system will inform the administrator.
	<b>FTP Server</b>	If the FTP Server task goes wrong, the system will inform the administrator.
	<b>DHCP Server</b>	If the DHCP Server task goes wrong, the system will inform the administrator.

**Check Interval** You can select hourly or daily inform interval.

<b>Email Notification Setting</b>	<b>Enable</b>	Check this box to enable notification via email.
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	<b>Error Handling Mail Server</b>	Specify a SMTP server for this device.
	<b>Error Handling Email Address</b>	Specify administrator email address.
<b>Pop-up Notification Setting</b>	<b>Enable</b>	Check this box to enable notification via Windows pop-up messages.
	<b>Error Handling Pop-up Machines</b>	Specify the IP address of administrator's PC.

## 4.6 Network Service

### 4.6.1 DHCP Server

If there is no DHCP server present, this device will automatically turn on its DHCP server function.

<b>Enable Server</b>	Use this to Enable/Disable the DHCP Server. If you already have a DHCP Sever, do not enable this feature.
<b>Subnet Mask</b>	Enter the same Network Mask (Subnet Mask) used by PCs on your LAN.
<b>Default Gateway</b>	If your LAN has a Router or Gateway, enter its IP Address here. Otherwise, leave this blank.

**Primary / Secondary DNS** IP Address of the first and second DNS Server.

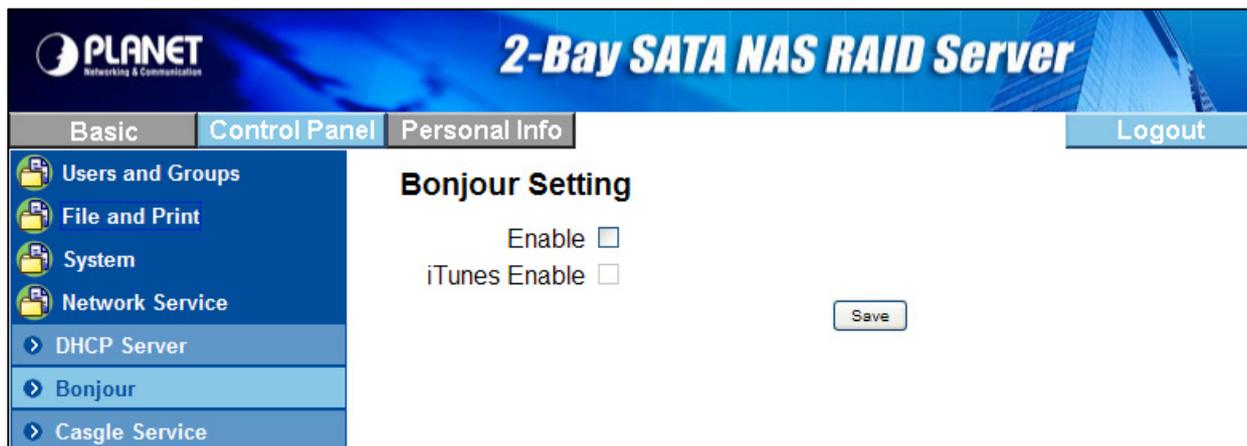
**Start Address** Enter the beginning of the range of IP Addresses to be allocated by the DHCP Server.

**Finish Address** Enter the last address of range of IP Addresses to be allocated by the DHCP Server.

**Maximum Lease Time** IP Address of the maximum lease times

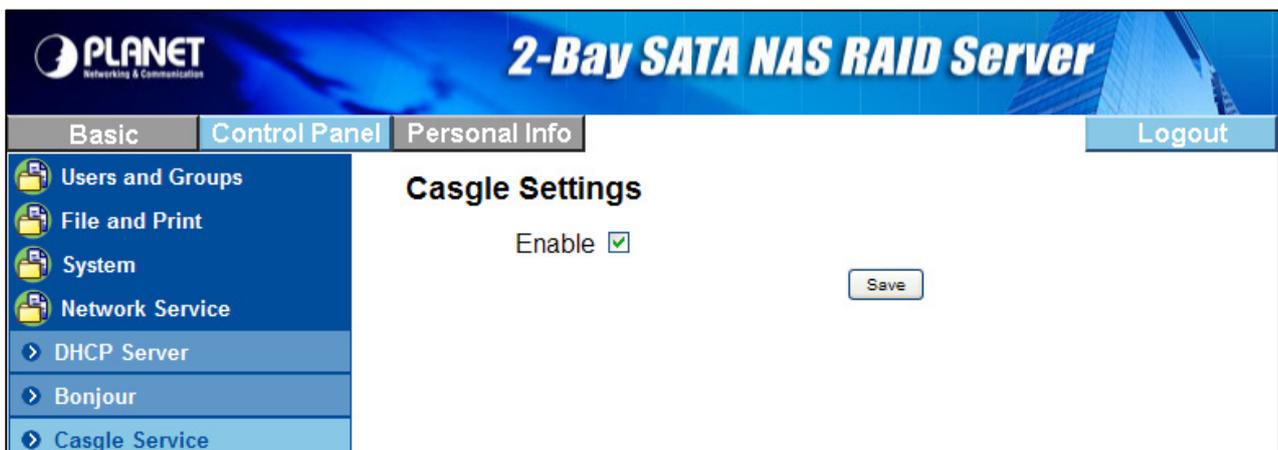
### 4.6.2 Bonjour Setting

If enabled, then the user can listen music that stored in the NAS via iTunes client.



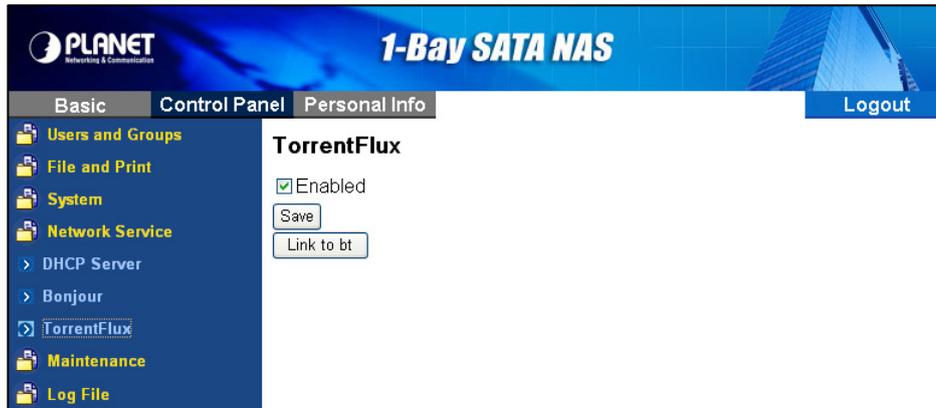
### 4.6.3 Casgle Settings

If enabled this Casgle service, user can enjoy all of this content from local network anytime you want, instead of waiting for downloads that take hours. With **Casgle's iManage<sup>TM</sup>** service, user does not need to search for content and manually retrieve the episodes anymore. Just let the **Casgle Service** do it all for user

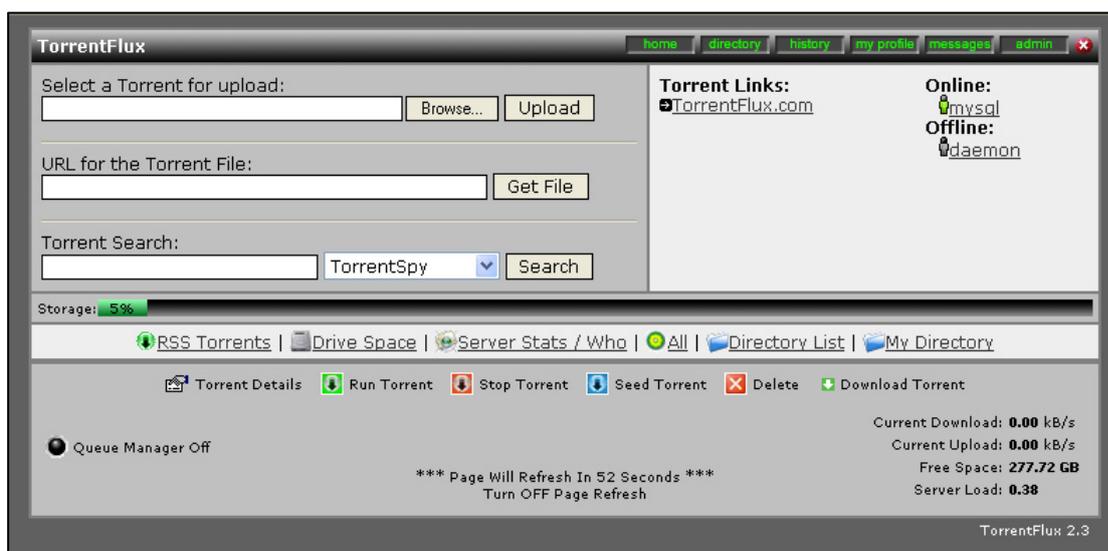
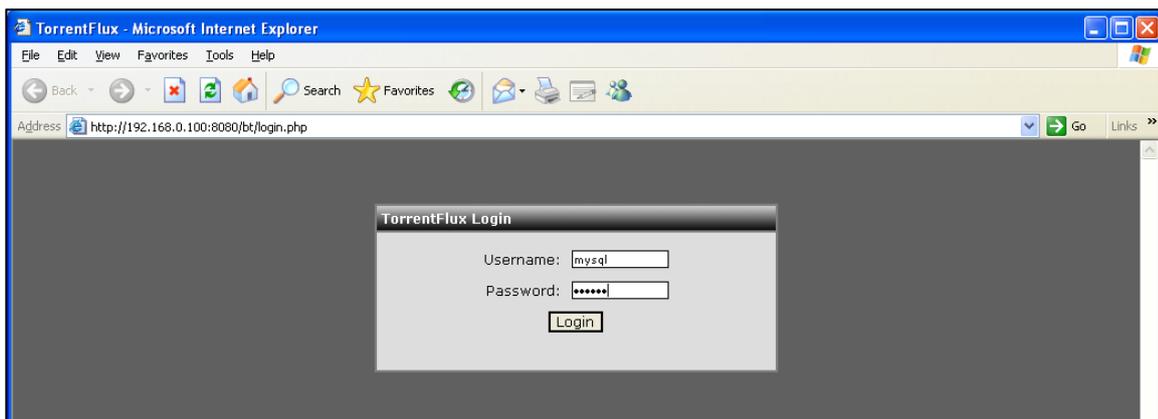


## 4.6.4 TorrentFlux

TorrentFlux is an open source bit torrent client. Check “**Enabled**” box to perform TorrentFlux. Click “**Save**” button to save check box status. Click “**Link to bt**” button to open TorrentFlux in another browser window. Visit <http://www.torrentflux.com/> for more information of this program.



The login window of TorrentFlux will appear, Default login username/password is : **mysql / 123456**



<b>Select a Torrent for upload</b>	Specify the torrent file with which you need download files. You can upload it from local PC.
<b>URL for the Torrent File</b>	Specify the torrent file with which you need download files. You can upload it from provide one HTTP/FTP URL for it.
<b>Torrent Search</b>	<ol style="list-style-type: none"> <li>1. Enter the keywords you wish to search for in the text field labeled Torrent Search.</li> <li>2. Select the torrent search engine you wish to use from the dropdown list next to the text box.</li> <li>3. Click the Search button.</li> </ol>
<b>Torrent Details</b>	View the detailed information of the task.
<b>Run Torrent</b>	Start to run the selected task.
<b>Stop Torrent</b>	Stop the selected task.
<b>Seed Torrent</b>	Download finish
<b>Delete</b>	Delete selected tasks.

## 4.7 Maintenance

### 4.7.1 Disk Utility

Disk Utility shows device name, type of file system, volume mounted, and disk mount status of the HDD installed in this device. For a newly attached HDD, formatting is required before any further operation.

**Planet 2-Bay SATA NAS RAID Server**

Basic | **Control Panel** | Personal Info | Logout

Users and Groups  
File and Print  
System  
Network Service  
Maintenance  
  ▶ Disk Utility  
  ▶ RAID Setting  
  ▶ Firmware Upgrade  
  ▶ Save Configuration  
  ▶ Restore Configuration  
  ▶ Factory Reset  
  ▶ Software Update  
Log File

**Disk Utility**

Device Name	Type	Mount Point	Status	Encrypt/Password/Format Type/Format	Scandisk	Umount	Health
/dev/sda	vfat	/mnt/usb1	mounted	<input type="checkbox"/> encrypt ext2 Format	Scan	Umount	None Detail
/dev/hdd	none		raid used	<input type="checkbox"/> encrypt ext2 Format	Scan	Umount	PASSED Detail
/dev/hdc	none		raid used	<input type="checkbox"/> encrypt ext2 Format	Scan	Umount	PASSED Detail

Refresh

Disk spin down time:  Minute Save

<b>Format Button</b>	Press this button to format a specific HDD. It supports EXT3, and FAT32 file system. Check the encrypt box to allow password protection over the HDD.
<b>Scan Button</b>	Press this button to check disk integrity.
<b>Unmount button</b>	This device will automatically mount a USB Storage Device connected to it. But you need to manually unmount the USB Storage Device before disconnecting it.
<b>Detail Button</b>	If the HDD supports S.M.A.R.T, it will report its health status.
<b>Disk Spin Down Time</b>	Specify the HDD spin down time if there is no access to this device for some while.

## 4.7.2 RAID Setting

This screen allows you to maintain the disks in this NAS server.

Disk Mode - Disk mode select: Linear, Raid 0 and Raid 1. Any data on the disk will be lost if change disk model.

**PLANET** Networking & Communication  
**2-Bay SATA NAS RAID Server**

Basic | **Control Panel** | Personal Info | Logout

- Users and Groups
- File and Print
- System
- Network Service
- Maintenance
- > Disk Utility
- > RAID Setting**
- > Firmware Upgrade
- > Save Configuration
- > Restore Configuration
- > Factory Reset
- > Software Update
- Log File

### RAID Setting

Raid level: RAID 1  
File system: EXT3  
Raid Size: 292 GB  
Raid Used: 128 MB

Remove raid system

#### Disk Status

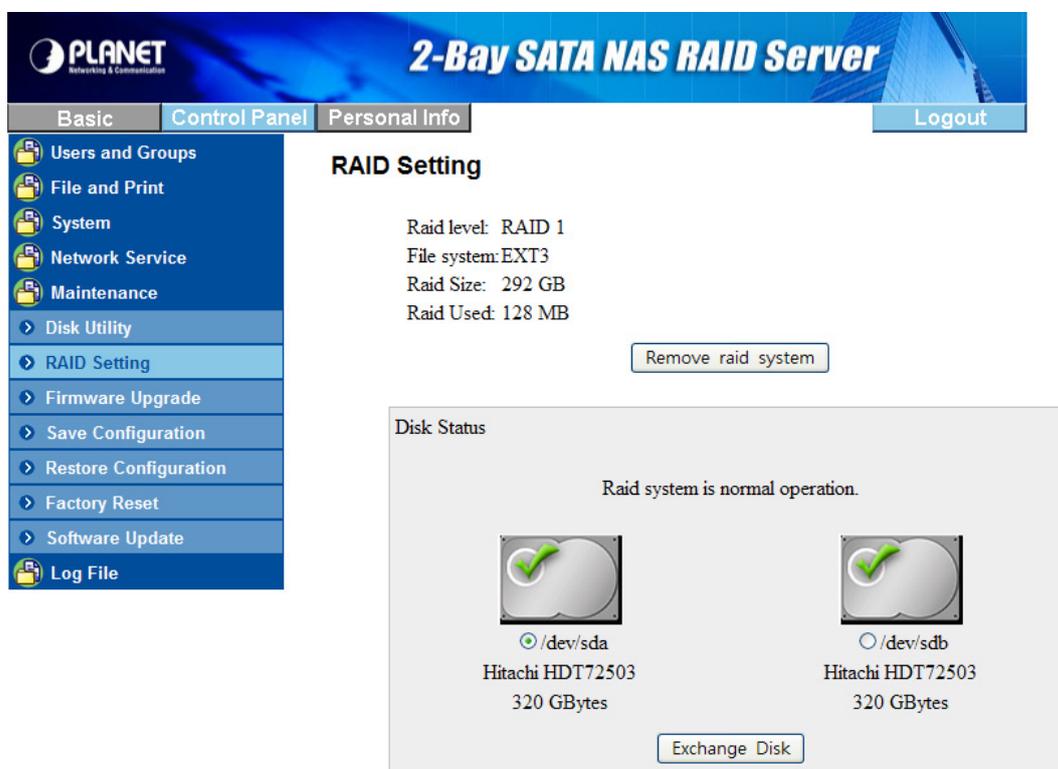
Raid system is normal operation.

/dev/sda	/dev/sdb
Hitachi HDT72503	Hitachi HDT72503
320 GBytes	320 GBytes

Exchange Disk

RAID Level	<p>This indicates the current working mode of Internal Disks. It can be one following modes:</p> <ul style="list-style-type: none"> <li>● <b>Linear (JBOD/LVM)</b> Disk 1 and Disk 2 are bound into one logical volume. Total capacity is equal to the capacity of the existing drive(s). To work in this configuration, at least one drive must exist. If this configuration is selected with only one drive installed, the second drive will be configured to extend the capacity of the logical volume when it is installed.</li> <li>● <b>Mirroring (Raid 1)</b> Disk 1 is mirrored into Disk 2. Total capacity is equal to the capacity of smaller drive. To select this mode, both drives must exist.</li> <li>● <b>Striping (Raid 0)</b> Disk 1 and Disk 2 are striped into one logical volume. Total capacity is equal to two times the smaller capacity of the two drives. To select this mode, both drives must exist.</li> </ul>
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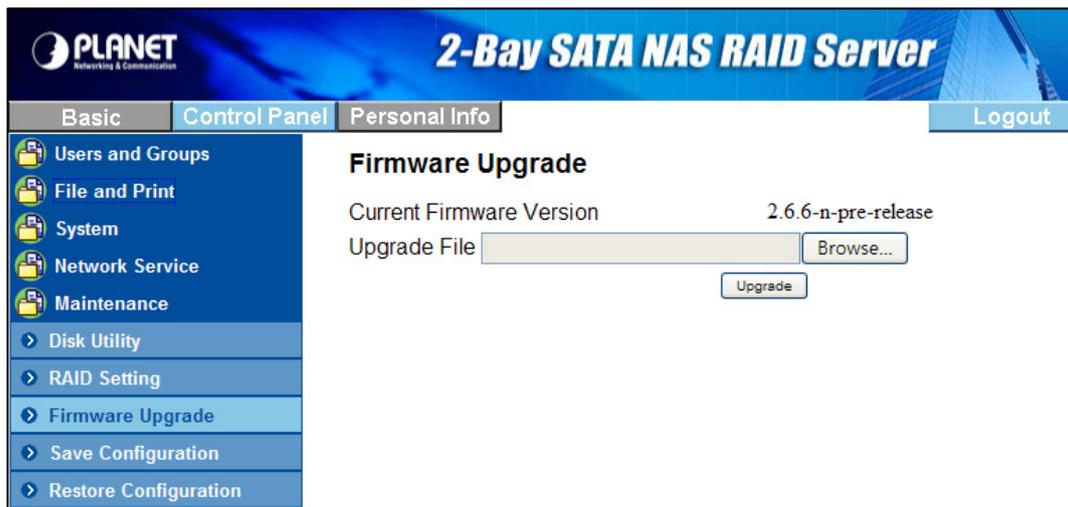
File System	<p>This indicates the file system access mode of Internal Disks. It can be one following modes:</p> <ul style="list-style-type: none"> <li>● <b>EXT2</b> The space in ext2 is split up in blocks, and organized into block groups, analogous to cylinder groups in the Unix File System. This is done to reduce external fragmentation and minimize the number of disk seeks when reading a large amount of consecutive data.</li> <li>● <b>EXT3</b> The ext3 file system is also a valid ext2 file system. This has allowed well-tested and mature file system maintenance utilities for maintaining and repairing ext2 file systems to also be used with ext3 without major changes.</li> </ul>
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### 4.7.3 Firmware Upgrade

You can perform firmware upgrade with this function by selecting a firmware upgrade file and then clicking the

“**Start Upgrade**” button. When the upgrade is in progress, all network connection will be stopped. This device will automatically reboot after the upgrade is completed.



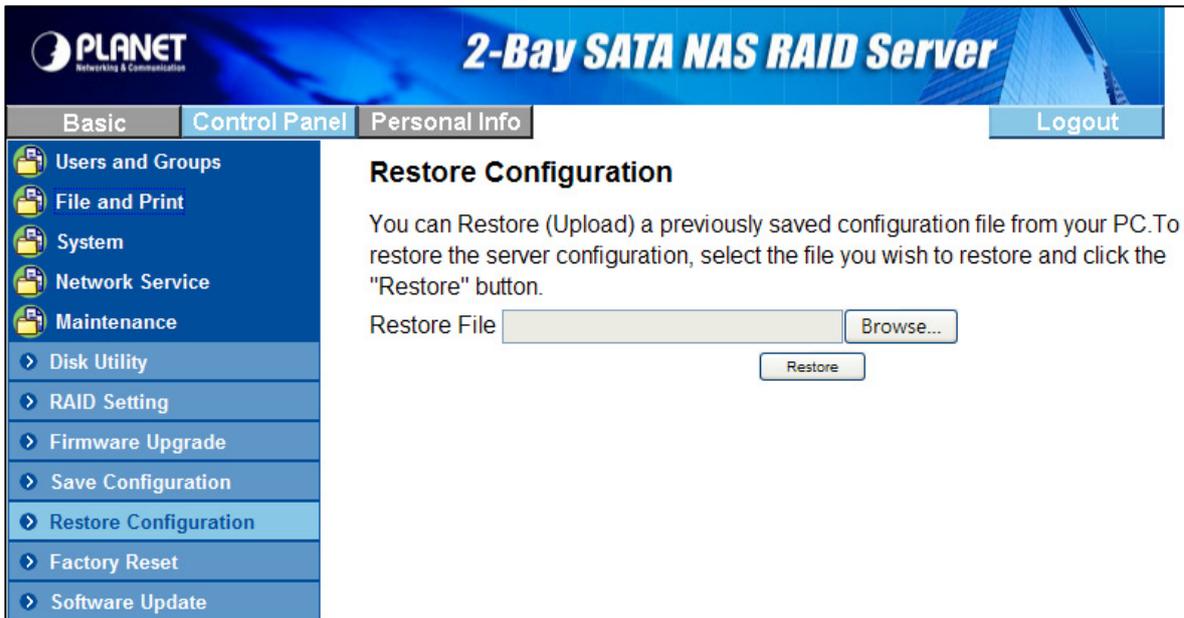
#### 4.7.4 Save Configuration

This device can save its current configuration to a local file. The default file name is “config.tar”.



## 4.7.5 Restore Configuration

You can restore system configuration from a previously saved config file saved by “Save Configuration” function. Specify a config file and then click the “**Restore**” button to restore previous settings.



The screenshot shows the Planet 2-Bay SATA NAS RAID Server web interface. The top navigation bar includes "Basic", "Control Panel", "Personal Info", and "Logout". The left sidebar lists various system functions, with "Restore Configuration" highlighted. The main content area is titled "Restore Configuration" and contains the following text: "You can Restore (Upload) a previously saved configuration file from your PC. To restore the server configuration, select the file you wish to restore and click the 'Restore' button." Below this text is a form with a "Restore File" input field, a "Browse..." button, and a "Restore" button.

## 4.7.6 Factory Reset

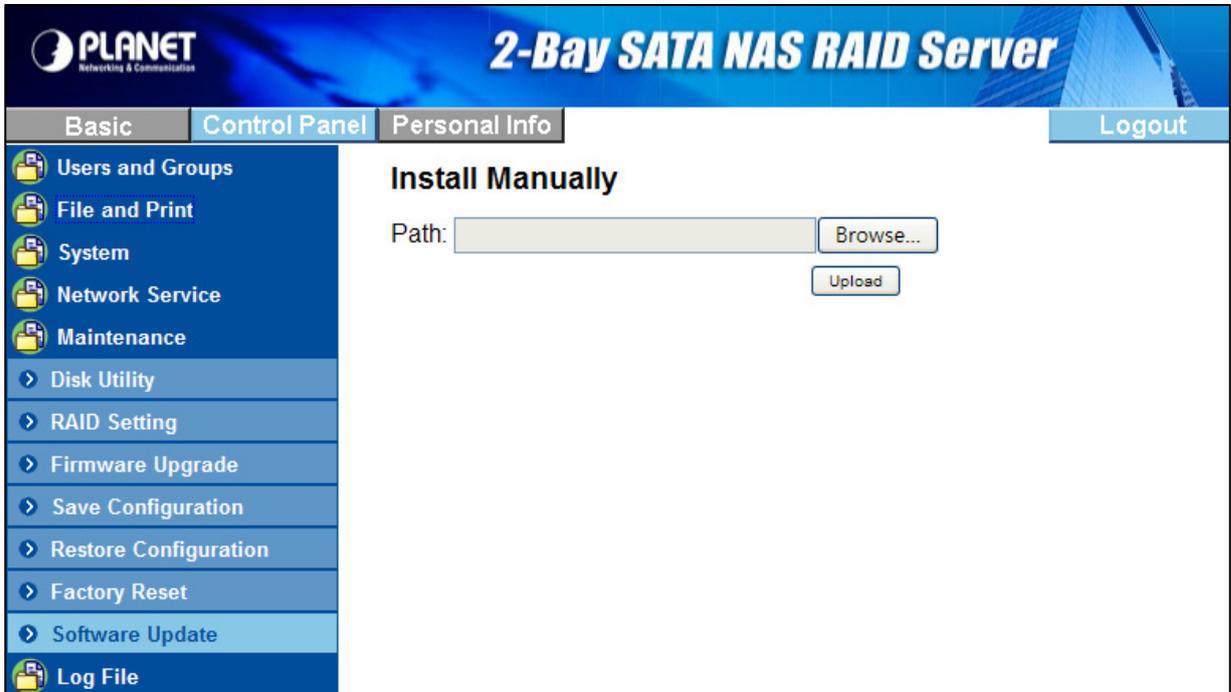
“Factory Reset” resets all configurations to factory defaults. All users, networking, and other configurations will be lost once the “**Factory Reset**” button is pressed.



The screenshot shows the Planet 2-Bay SATA NAS RAID Server web interface. The top navigation bar includes "Basic", "Control Panel", "Personal Info", and "Logout". The left sidebar lists various system functions, with "Factory Reset" highlighted. The main content area is titled "Factory Reset" and contains the following text: "To restore the factory default settings, click the Factory Reset button." Below this text is a red warning message: "Caution!! You will lose all user data." At the bottom of the main content area is a "Factory Reset" button.

## 4.7.7 Software Update

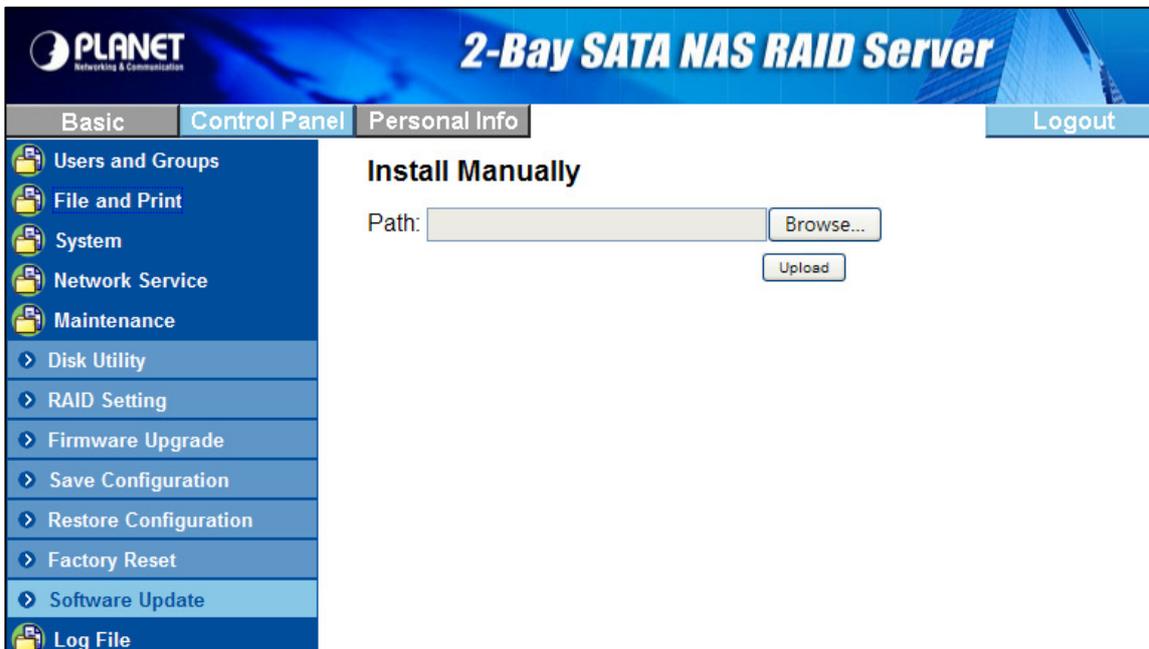
Select an installation module and click “**Upload**” button to install it on this device, For example the Torrentflux utility.



## 4.8 Personal Information

### 4.8.1 Account

Account is the only section in “Personal Information”. You could change the password of user ‘admin’ and the language of the GUI. Besides, share list, system disk quota and the percentage of disk used will be shown as well.



## 4.8.2 Logout

Click Logout to logout off this device.



The screenshot displays the web management interface for a PLANET 2-Bay SATA NAS RAID Server. The top navigation bar includes 'Basic', 'Control Panel', 'Personal Info', and 'Logout'. The 'Personal Information' section is active, showing 'System Information' with the following details:

Product Name	NAS-7201
Firmware Version	2.6.3-n.20080320
Product Vendor	PLANET Technology Corporation
IP Address	192.168.0.100

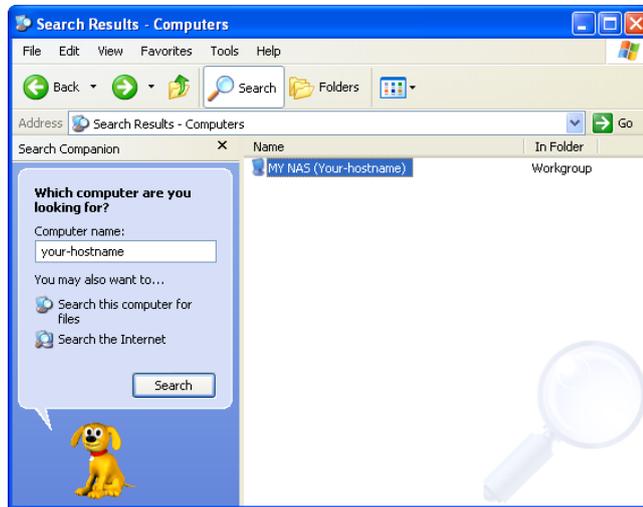
# 5. Mapping a Network Drive in Windows XP

After mapping a specific folder as a Network Drive, you can access it easily in **My Computer**.

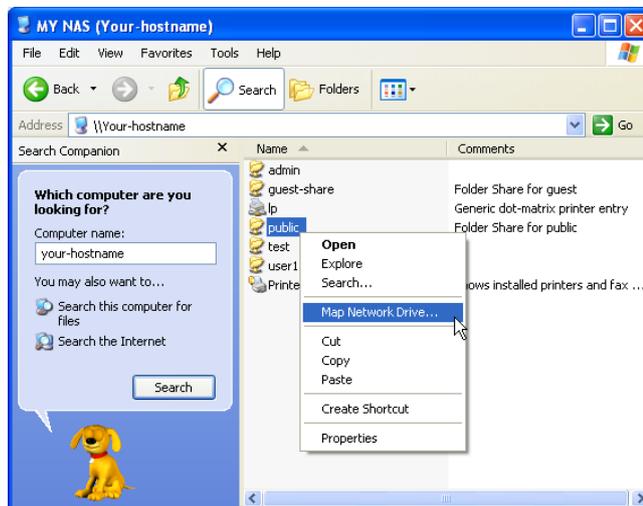
We will show you an example of this operation in Windows XP. For other operation systems, please refer to the manuals of their respective manufacturers.

A USB external drive connected to this device will be seen as **\\your-hostname\usb1** or **\\your-hostname\usb2** in Windows Explorer. You can also map it with the following steps.

1. Click **Start** button in Windows taskbar => Click **Search** => Click **Computer or people** => Click **A computer on the network** and a new window will appear.
2. Input the hostname of this device in the Computer Name column, which you set previously in Control Panel > System > LAN Settings > Hostname chapter; or you can also input the description of this device, which you set previously in Control Panel > File and Print > File Server > Windows Setting > Description. Click the Search button, and you will find search results in the right column.



3. Double click on the computer icon. You can also access this device directly by inputting **\\your-hostname** in the URL bar of an Explorer window.
4. Right click on the folder you want to map and select **Map Network Drive**.



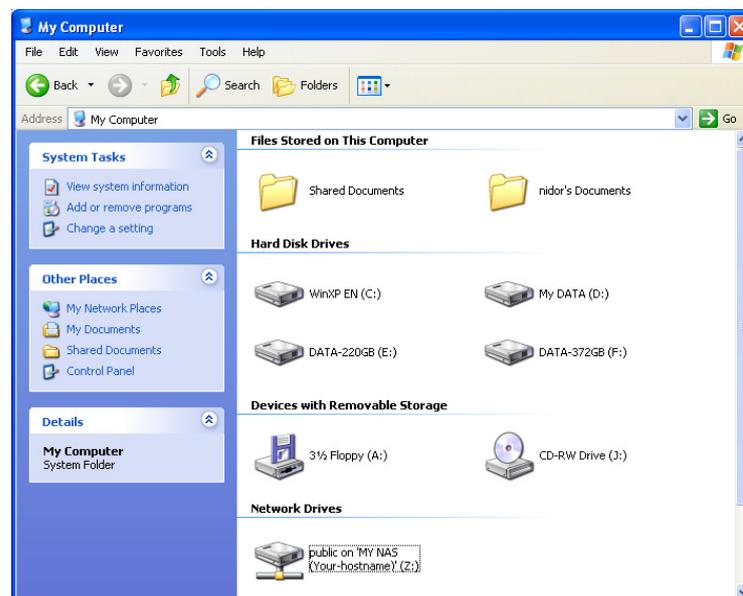
5. A Map Network Drive dialogue box will be shown. Specify a drive letter for the folder chosen and click **Finish** button to complete mapping.



6. A “Connect to Your-Hostname” dialogue box will be shown. Input a username and its password your previously set in **Control Panel > File and Print > Windows and FTP Access**. You can enable automatic login process in the future by checking the “remember my password” box. You will need to input the username and its password again each time you tried to access this network drive if the “remember my password” box is left unchecked.



7. The selected folder will now be shown in **My Computer**. You can then access it like a local hard drive.



## 6. Printer Setup in Windows XP

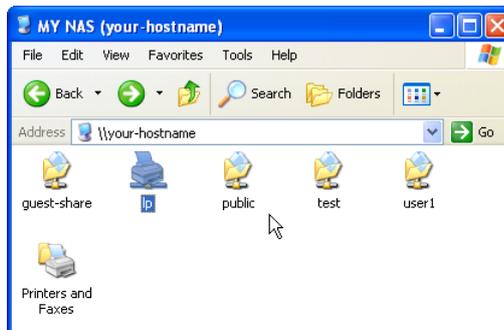
You can enable access of a network printer to members in the same LAN environment. We will show you an example of this operation in Windows XP. For other operation systems, please refer to their manuals of respective manufacturers.

Take the installation of EPSON AcuLaser C1100 printer as an example.

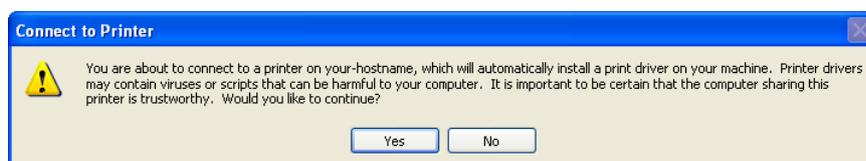
1. Connect the USB printer to NAS-7201 with the printer's USB cable directly. The printer will be automatically detected by NAS-7201.



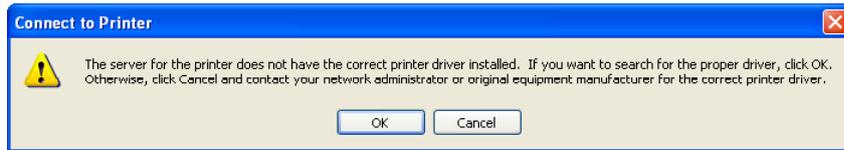
2. Input "\\your-hostname" (default arinas) in the URL bar of an Explorer window. Double click on the "lp" icon.



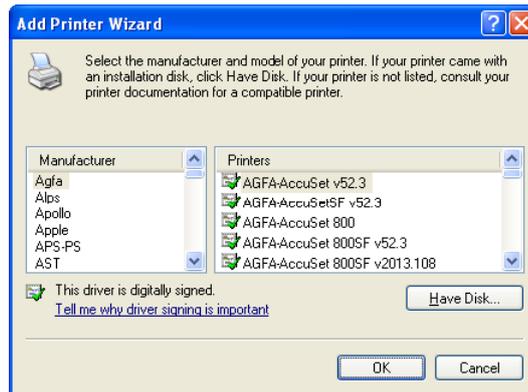
3. A dialogue box will pop up. Click **Yes** to continue.



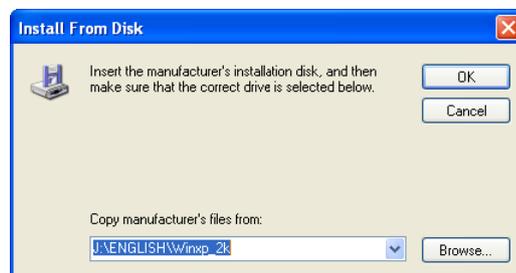
- Another dialogue box will pop up. Click **OK** to continue.



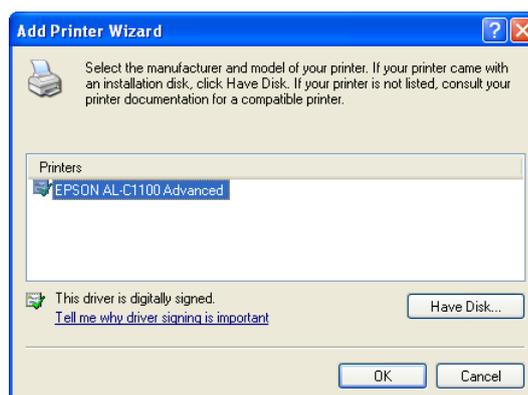
- In the Add Printer Wizard window, select the manufacturer and printer model corresponding to the printer connected. If the manufacturer of the specific model of your printer is not available in the list, click on the "**Have Disk...**" button to install its driver from the driver disk provided by the manufacturer.



- Insert the driver disk into your local computer. Click the "**Browse...**" button to select the corresponding INF file in the driver disk. Click **OK** to proceed on installation.



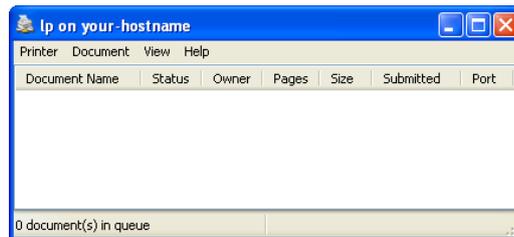
- Click **OK** to proceed on installation.



8. A “Connecting to lp on your-hostname” dialogue box will pop up during the installation process. The installation process may take several minutes to complete, please wait.

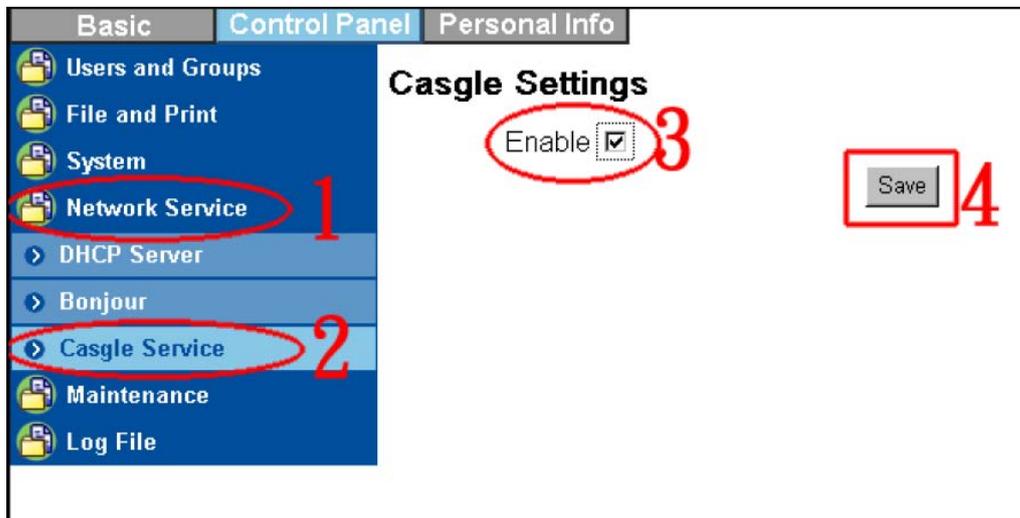


9. When the installation process is complete, a “lp on your-hostname” window will be shown. Now you can print documents using the printer installed. Each member in the LAN will have to complete above installation before using this printer.



## 7. Setup Casgle Service on Windows XP

By default, the **Casgle Service** is already turned on. It will start retrieving quite a few interesting default programs for user. User can enable or disable the service by accessing your device's web management interface.



The **Casgle Service** configuration can be found under:

Control Panel → Network Service → **Casgle Settings**

Select or deselect the check box beside the **Enable** option and press the **SAVE** button to enable/disable the service. Please wait a few minutes after enabling the service before trying to access the content.

### Accessing the Content (MS Windows)

---

Casgle Service provides a MS Windows native and intuitive method of enjoying the content with a software application that resides in the public folder.

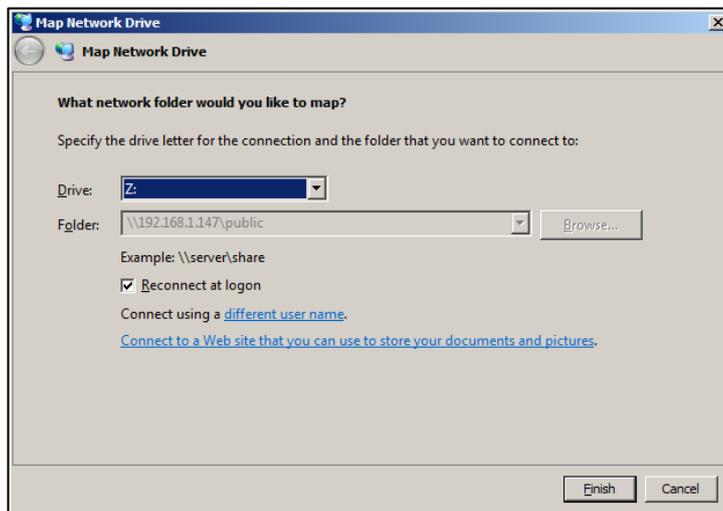
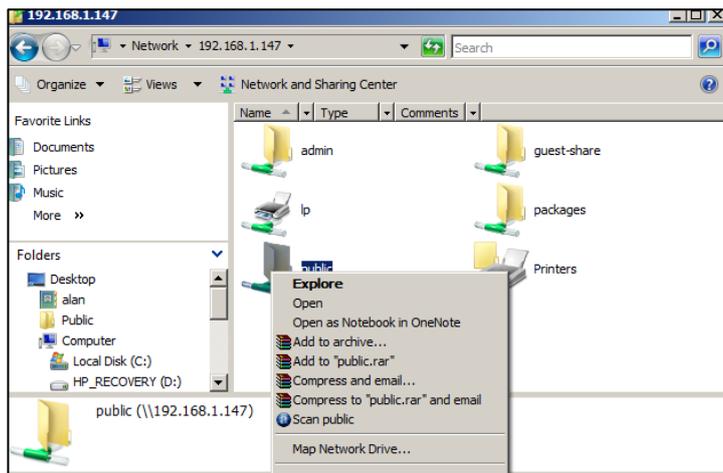
In order to access the native MS Windows interface, you must first mount the network share as a network drive and install VLC Video Player available at: <http://www.videolan.org>.

#### Mounting Network Drive :

First access the NAS device to gain a list of the shares available on the device by typing in the following into 'My Computer' address bar.

\\<NAS device's IP address>\

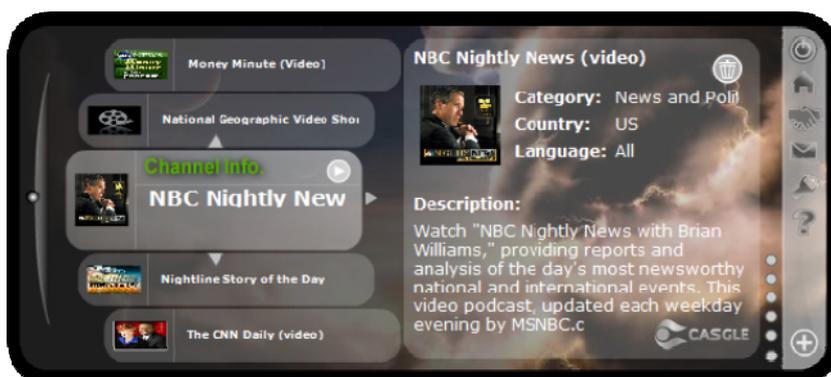
Right click on the public folder, select the Map Network Drive option on the drop down menu.



Simply select a drive name (Z: is shown in the example).

After you select the Finish/Done/OK button, a file explorer window will open with the content of the Z: drive listed.

Double click CasglePlayer.exe. It will start the MS Windows native content viewer. If you can not find this software, please make sure you have let the NAS-7201 connect to Internet already. This software will be auto download when NAS-7201 connects to Internet.



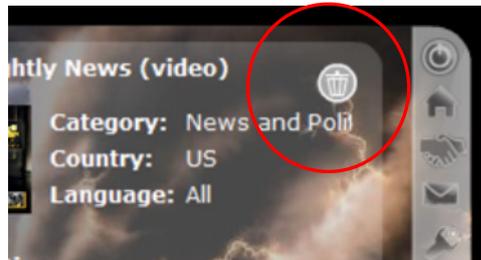
## Changing Your Subscription (MS Windows)

---

Using the Casgle Player Application, you can also make modifications to your subscriptions.

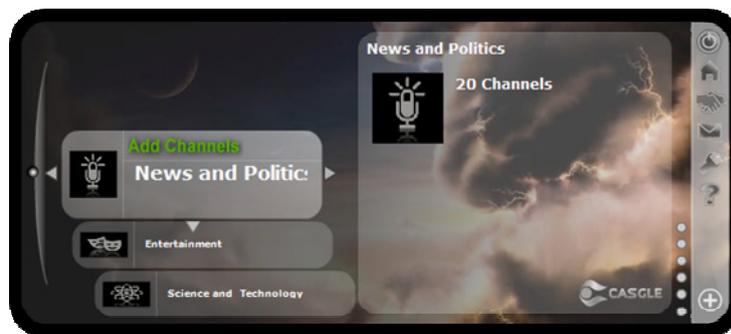
### Unsubscribing a Channel :

At the Channel Info Level, simply scroll down to the channel that you no longer want. On the Channel Description Panel by simply clicking on the Trashcan icon you will alert the Casgle Service that the particular channel is no longer wanted.

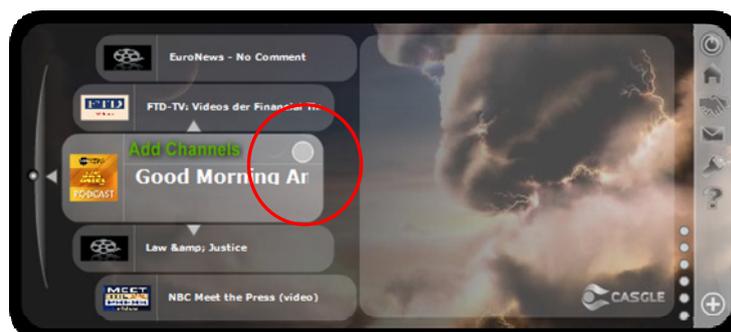


### Subscribing a new channel :

At the Channel Info Level, selecting the PLUS icon on the lower right hand side of the application will bring up the channel category list



Scroll to the desired channel category and click on the right arrow. This will bring up the individual channel list.

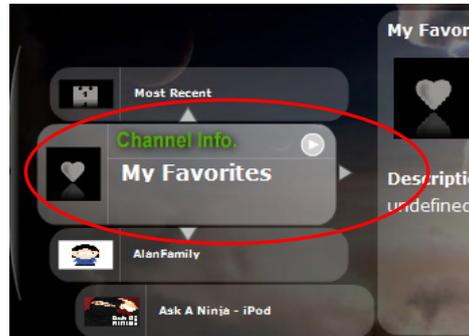


If the channel is available for subscription, there will be an empty circle on the upper right of the channel name. Simply click on it & it will change to a check mark, which indicates that the subscription has taken place.

### My Favorites Channel (MS Windows)

---

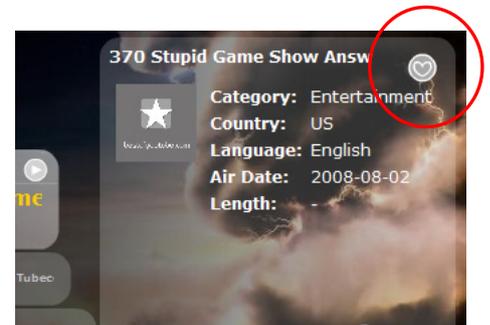
The Casgle Player provides a personalized channel called 'My Favorites', which is the second channel on the Channel list.



#### To Add an Episode to the Favorite Channel :

Enter the episode list of a channel by moving the desired channel to the center and selecting the right arrow.

Move the desired episode to focus. On the upper right corner of the description panel, a heart icon will appear if the episode can be added to your My Favorites channel.



### Accessing the Content (Cross Platform)

---

The content will reside in your device's *Public* folder.

#### Microsoft Windows (2000, XP, Vista) :

you can access the root of the content by typing:

`\\<your device's IP address>\public`

into your Internet Explorer's address field or My Computer window.

Note: you may get prompted for username/password for authentication. Please see your NAS manual for more details.

**Apple Mac :**

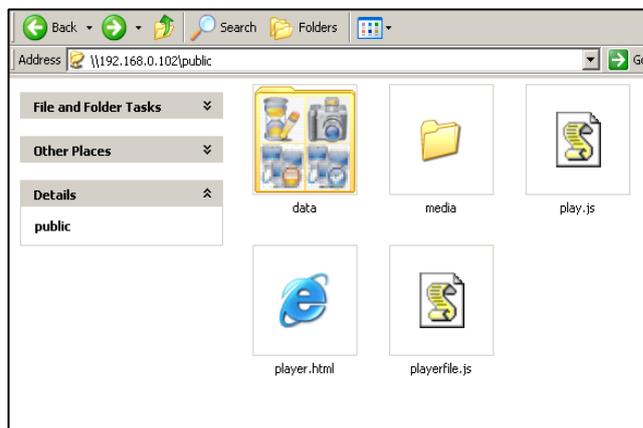
Please mount the NAS device to your file system and access the *public* folder by using the following command at the command window:

```
# mount_smbfs //username@iP address/public ./myshare
```

Where workgroup, username, password are defined through the NAS web user interface. myshare is a directory that you create.

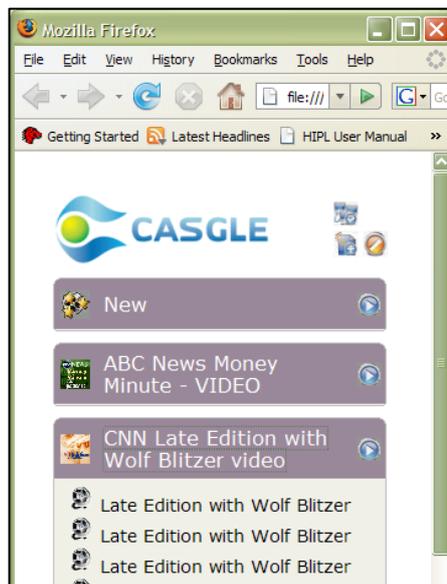
**Viewer :**

In the public folder, you will find the following files:

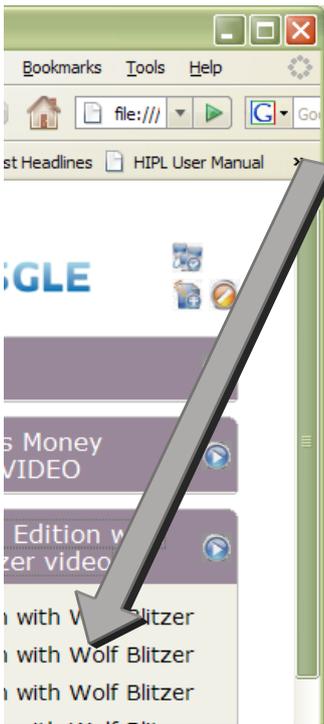


By opening the *player.html* file using a web browser such as Internet Explorer or Firefox/Mozilla, you will be shown a list of programs that you currently subscribe to. When you expand each program you will see the current list of episodes that are available.

The viewer is illustrated right:



## Enjoying Your Dynamic Content :



Using the viewer, you can enjoy individual episodes by expanding the program and selecting each episode directly.\* Or, you can enjoy all the episodes within the program by selecting the *play*  icon right next to the program name.

In the viewer, *Casgle* provides special sections for you to better enjoy your content. The NEW section contains all the episodes that have been downloaded within the last 24 hours, so that you do not need to spend time searching for newly refreshed content in each program.

It will also indicate which episodes are ready to be enjoyed and which ones are not. Episode names in *italics* indicate those which are not yet ready for viewing.

When the  icon appears besides the episode's name, it indicates that the particular episode has been partially downloaded only. *Casgle Service* will resume the download at a later on time.

Also, please associate the file extension correctly to insure the smooth operation of the player. The association can be done in Microsoft Windows using Explorer's pull down menu:

**Tools → Folder Option → File Types**

Associate m3u, m4v, wmv, mp3, mp4, and other media file extensions to the appropriate helper program(s).

---

### Note

The viewer will launch the helper programs that you have set up to view the episodes. If you have difficulty in viewing the files, please check the end of this guide for some recommended programs for content playback.

---

## Changing Your Subscription (Cross Platform)

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Not only does *Casgle* come packed with default programming, it also allows you to add more programs as you expand the definitions of your interest areas.

By selecting the *subscription*  icon located on the upper right hand corner of the player viewer, a new browser window (or browser tab) will open with program categories that are available for you.

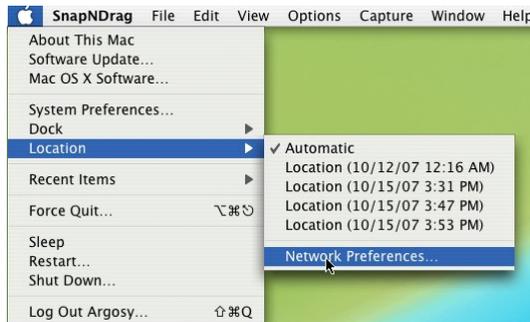
By selecting the Category name, the subscription window will expand to individual programs for your choosing.

By selecting the check box beside the program name, you will be able to subscribe to these respective programs. This subscription service is free and the content has been professionally qualified and screened by *Casgle* before being made available. Please note that after initiating your subscription it may take some time before availability of content is reflected. This will vary with the download speed of your Internet Service Provider (ISP) and the download settings of the original content providers.

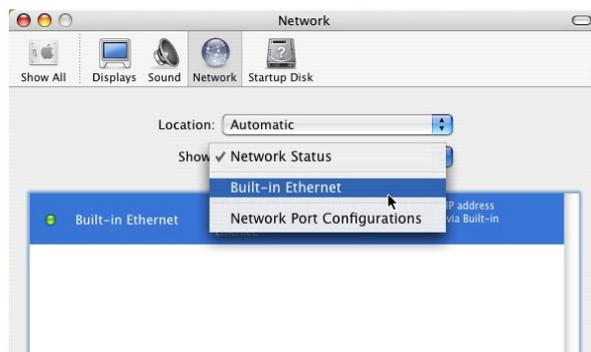
# 8. Mounting SMB Server in Mac OS X

First, you have to make sure that local Mac and NAS-7201 are in the same LAN environment. Then you can connect to NAS-7201 using SMB protocol, by inputting a URL starts with “smb://”.

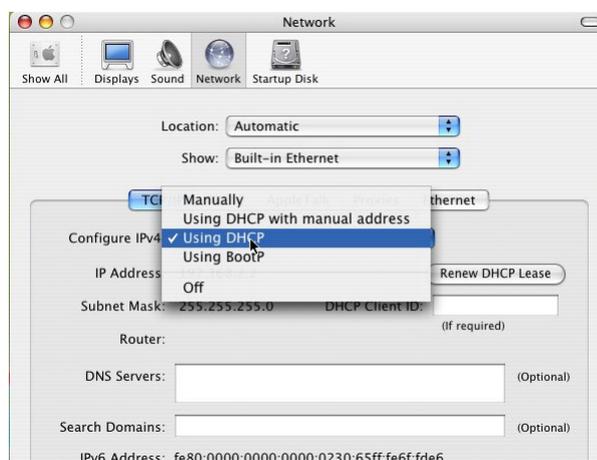
1. Click on the **Apple Menu**, and select **Location -> Network Preferences**.



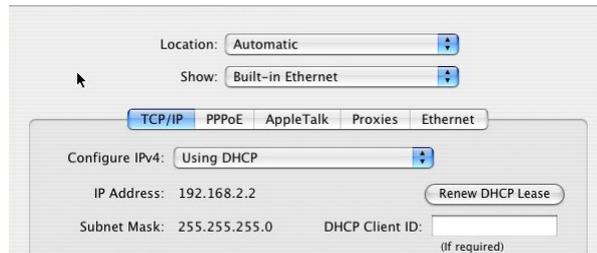
2. A Network window will show. Select **Built-in Ethernet** in the **Show:** pop-up menu.



3. Select **Using DHCP** in the **Configure IPv4** pop-up menu.



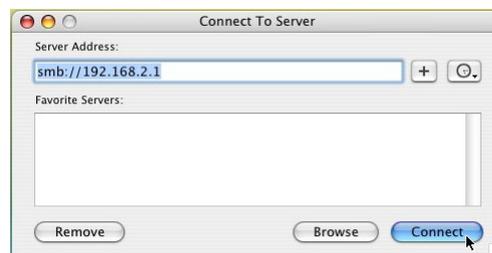
4. The private IP address acquired from the DHCP server is now displayed in this window. You can find the IP Addresses of this Mac and of this device are within the same LAN environment.



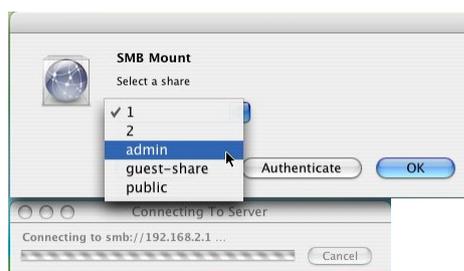
5. Select **Go -> Connect to Server** in the menu bar.



6. The "Connect To Server" window will be shown. Input **smb://NAS-IP**, and then click **Connect**.



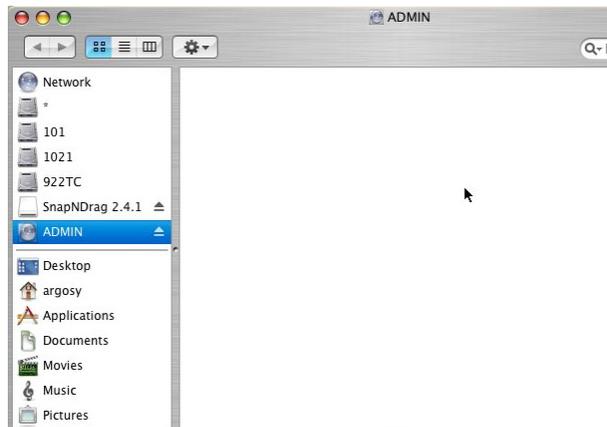
7. A "Connecting to smb://NAS-IP" progress bar will be shown first, followed by the "SMB Mount" window. Select a folder (ex: **admin**) in the "Select a share" pop-up menu and then click OK.



8. Input Username and Password in the “SMB/CIFS File system Authentication” window, and then click **OK**.



9. If the connection succeeded, you can see the NAS icon in the left column.



10. Click the symbol by the right side of the NAS icon to unmount this device.



## 9. Mounting SMB Server in Linux

The following operation is performed in Fedora command line environment. The IP address of this device is set to 192.168.0.100 (its default value). Actual scenario of application may vary from case to case.

1. Using the **smbclient** command to check the content of the NAS-7201.
2. Input **smbclient -L 192.168.0.100 -U admin** after the prompt. The system will prompt you with "Password:". Input **admin** (the default password for user **admin**) to get a list of directories within the NAS-7201.

```
[root@localhost misc]# smbclient -L 192.168.0.100
Password:
session setup failed: NT_STATUS_LOGON_FAILURE
[root@localhost misc]# smbclient -L 192.168.0.100
Password:
Domain=[PLANET] OS=[Unix] Server=[Samba 3.0.20]

  Sharename      Type      Comment
  -----
  admin          Disk
  public         Disk      Folder Share for public
  guest-share    Disk      Folder Share for guest
  usb1           Disk      usb disk
  IPC$           IPC       IPC Service
  ADMIN$         IPC       IPC Service
  Ip             Printer   Generic dot-matrix printer entry
Domain=[PLANET] OS=[Unix] Server=[Samba 3.0.20]

  Server          Comment
  -----
  Workgroup       Master
  WORKGROUP      ARINAS
[root@localhost misc]#
```

3. Create a folder as the mount point for the NAS-7201.

Input **mkdir /mnt/admin** after the prompt for mounting of the shared directory "admin".

```
[root@localhost ~]# mkdir /mnt/admin
```

Input **mkdir /mnt/usb1** after the prompt for mounting of the USB external drive.

```
[root@localhost ~]# mkdir /mnt/usb1
```

4. Mount the NAS-7201 with **mount** command.

Fedora 5 and later: Input **mount -t cifs -o username=admin //192.168.0.100/ /mnt/admin/** after the prompt to mount the shared directory.

```
[root@localhost ~]# mount -t cifs -o username=admin //192.168.0.100/ /mnt/admin/
Password:
[root@localhost ~]#
```

Input **mount -t cifs -o username=admin //192.168.0.100/ /mnt/usb1/** after the prompt to mount the USB external drive.

```
[root@localhost ~]# mount -t cifs -o username=admin //192.168.0.100/usb1 /mnt/usb1/  
Password:  
[root@localhost ~]# █
```

Fedora 4 and earlier: Input **mount -t smbfs -o username=admin //192.168.0.100/ /mnt/admin/** after the prompt.

After the input of the **mount** command, the system will prompt you with “**Password:**”. Input the corresponding password of the user.

5. Unmount a directory mounted.

Input **umount /mnt/admin/** to unmount the shared directory.

```
[root@localhost ~]# umount /mnt/admin/  
[root@localhost ~]# █
```

Input **umount /mnt/usb1/** to unmount the USB external drive.

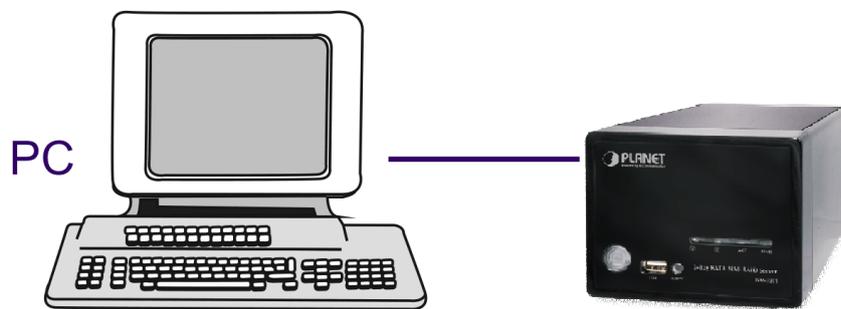
```
[root@localhost ~]# umount /mnt/usb1/  
[root@localhost ~]# █
```

# 10. Network Applications

## 10.1 Personal Data Backup

For a single user, you can use NAS-7201 as an external hard drive to store your data via Ethernet connection.

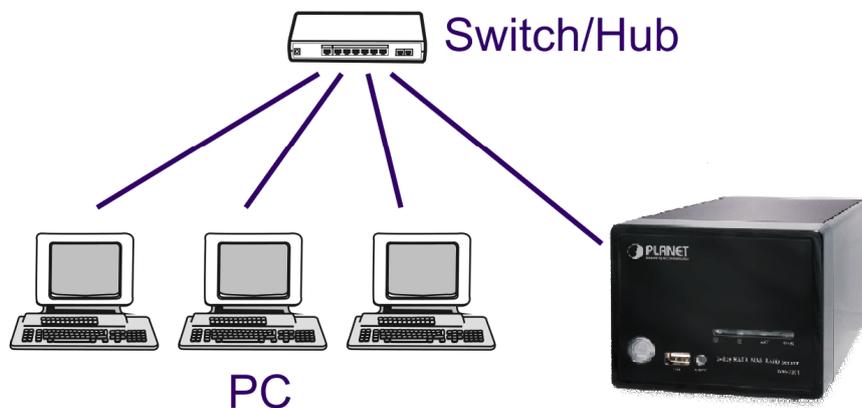
### Personal Backup



## 10.2 Network File Sharing

With NAS-7201, a group of people in a LAN environment can share and store files over Ethernet connection. NAS-7201 could work with 10/100/1000 Base-T Ethernet environment.

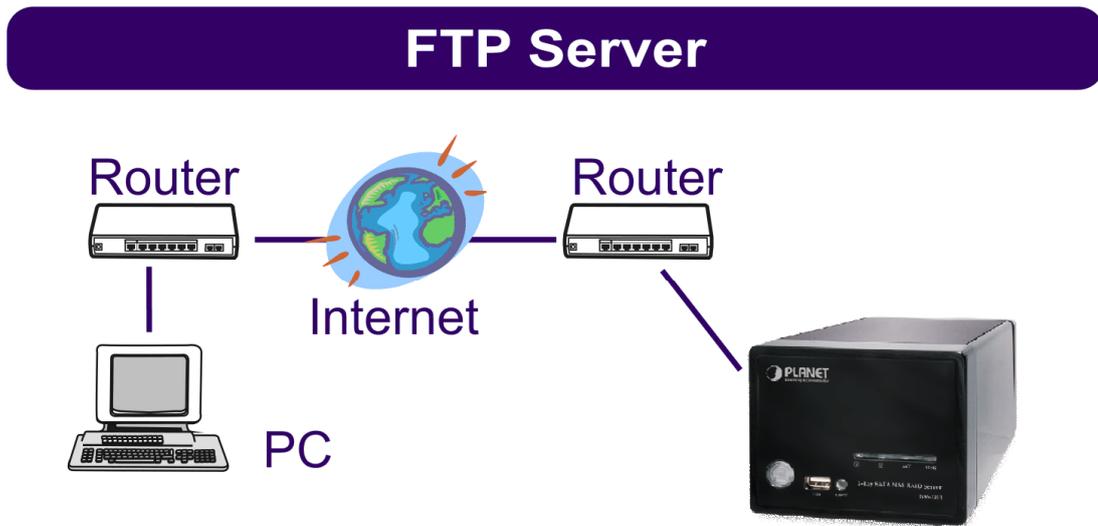
### Files Sharing / Remote Data Backup



## 10.3 FTP Server

NAS-7201 features FTP function. You can access the FTP via a web browser or a FTP client.

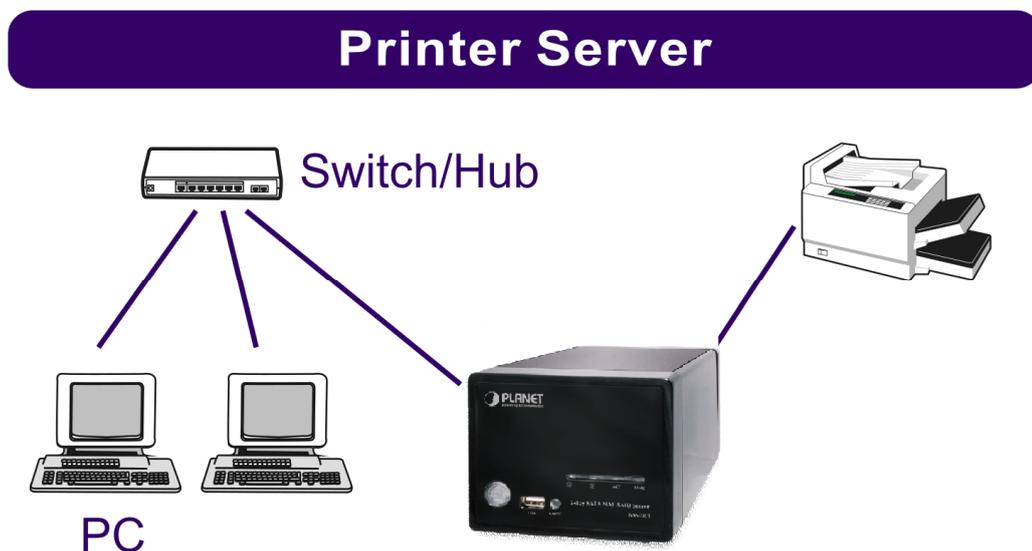
1. If you are in the same LAN of NAS-7201, simply input **“ftp://your-account @your-hostname\_or\_IP address/”** in your browser’s URL bar and press Enter key; or open a connection by **your-hostname** (or its **IP address**) with a FTP client. Login with a set of username and password you set previously to get access to NAS-7201.
2. If you are accessing NAS-7201 over Internet connection, the router of NAS-7201 will have to set a NAT mapping on port 21 for FTP protocol. In the URL bar of your browser, input **“ftp:// your-account@router-hostname\_or\_router-public-IP”** instead. It is recommended to have a static IP address for the router of the FTP server to enable stable connections.



## 10.4 Printer Server

Connect a USB printer to NAS-7201 and share this printer to members in the same LAN.

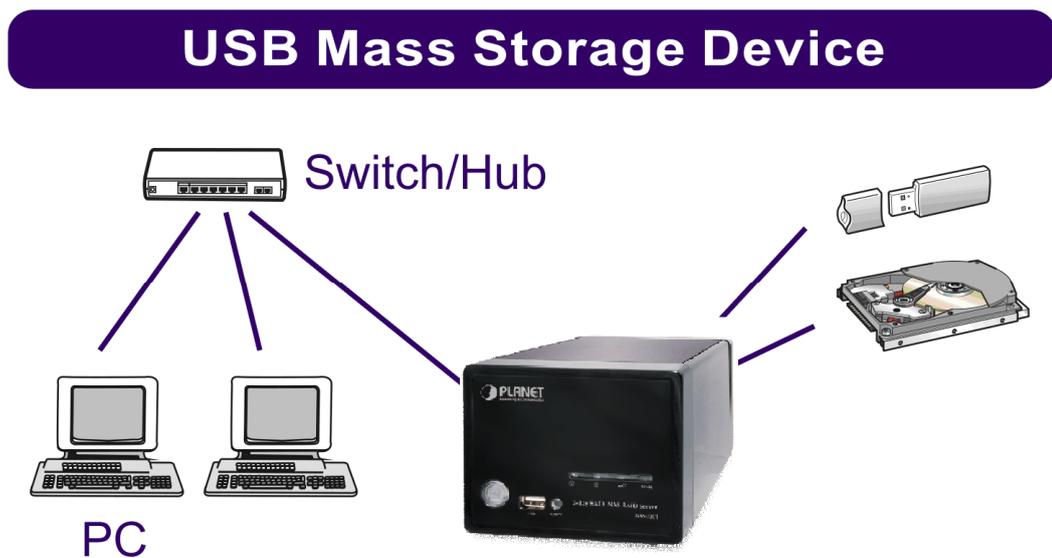
**Note: GDI Interface printers are not supported.**



## 10.5 USB Mass Storage Device

Connect your USB Mass Storage Device to NAS-7201. The two USB ports can supply up to 350mA of current in total. If you would like to connect a USB external HDD to one of the USB host ports, it is recommended to apply external power to the USB HDD.

NAS-7201 will automatically mount a USB Mass Storage Device connected to it. A USB external drive connected to NAS-7201 will be seen as \\your-hostname\usb1 or \\your-hostname\usb2 in Windows Explorer. But you need to manually unmount the USB Mass Storage Device before disconnecting it. You can unmount a USB drive by **Control Panel > Maintenance > Disk Utility > clicking “Umount” button**.



## APPENDIX A WHAT IS RAID

The acronym RAID stands for Redundant Array of Independent Drives, a method to combine a number of small, inexpensive drives into an array which offers more functionality than a single large disk with comparable capacity, while simultaneously taking advantage of the individual disks to increase the efficiency of the system. In other words, during the writing process, data is split into segments and stored on multiple disks; likewise, during the reading process, data is retrieved simultaneously from multiple disks in order to increase the access speed of the array.

RAID can also be configured to use part of the disk capacity for mirroring or redundant data, thus preserving the integrity of the system in case one of the disks in the array fails.

NAS-3200 supports the RAID 0 and RAID 1 volumes, described below:

RAID level	Functionality
RAID 0	Offers Striping, a process where multiple disks are combined to form one virtual large disk, but without safety measures.
RAID 1	Half of the disks are used for backup purposes; the content of disk A is mirrored to disk B to assure data integrity. The available storage space is only one half of total physical disk capacity.

Each of the RAID configurations offers a different disk capacity and level of safety. When making your choice, consider the following:

1. The bigger the available space, the fewer safeguards the system has.
2. For any RAID array, the capacity of the array is determined by the smallest hard disk. E.g., for a RAID 1 array created with one 20 GB and one 30 GB hard disks, the total available capacity is defined based on the 20 GB hard disk. Therefore you should always choose to use hard disks with identical size to create a RAID array.

### RAID 0 (striping)

In a RAID 0 array, data is split and stored in different locations, but without fault tolerance. The server treats the array as one big disk, with a size of almost all individual disks combined. The parallel access to multiple disks allows for faster read and write, making the array faster than individual disks. Because of that, this configuration is ideal for applications where large amounts of streaming data have to be efficiently transferred while assuring good quality, e.g. in a recording.

RAID 0 offers no mirroring or redundancy options. If one disk in the array fails, the entire array is inoperable.

RAID 0 is not fault-tolerant.

## **RAID 1 (mirroring)**

A RAID 1 array consists of at least two disks that duplicate the storage of data; data is always written to all disks. This system is rather fault-tolerance and is often used in environments with multiple users where safety is of great importance, but more expensive than other solutions, since the actual storage capacity is only 1 disk. RAID 1 is often used in environments with multiple users where safety is of great importance.

**Note:**

1. NAS-7201 only supports creating a RAID 1 volume with 2 disks.
2. Even though RAID greatly increases the level of safety in your system, you should still make it a habit to back up data periodically. If you accidentally erase data, even a RAID array cannot restore it. RAID can only compensate for the failure of one disk, that is, if two disks fail simultaneously, data loss is inevitable.

## APPENDIX B SPECIFICATION

Product	2-Bay SATA NAS RAID Server
Model	NAS-7201
Hardware	
Processor	STORLINK SL3516
Memory	128MB
Hard Disk	One 3.5", SATA I/II interface
System Configuration	Windows Base utility, Web Browser
RAID Level	RAID 0, 1 and JBOD
Indication LED	Power, HDD 1/2 Act, LAN, LAN Act
LAN Port	1 x 10/100/1000Mbps RJ-45
USB Connector	2 x USB 1.1/2.0 Compatible (Type A)
Network Protocol Supported	TCP/IP, HTTP, FTP, P2P, SMB
Network Clients Supported	Windows, Mac OS, Linux/Unix
Power Supply	External Switch Power, 5V DC, 4.2A / 12V DC 3A
Dimension	58mm(W) x 122mm(H) x 197mm(D)
Weight	Approximate 726g (net weight)
Operating Environment	Temperature: 10~50 degree C Humidity: 10~95 %
Storage Environment	Temperature: -10~70 degree C Humidity: 0~95 %
Safety Approvals	CE, FCC Class A

## EC Declaration of Conformity

For the following equipment:

\*Type of Product : 2-Bay SATA NAS RAID Server

\*Model Number : NAS-7201

\* Produced by:

Manufacturer's Name : **Planet Technology Corp.**

Manufacturer's Address : 11F, No. 96, Min Chuan Road, Hsin Tien,  
Taipei, Taiwan, R.O.C.

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (89/336/EEC, 92/31/EEC, 93/68/EEC).

For the evaluation regarding the Electromagnetic Compatibility, the following standards were applied:

EN 55022	(2006, Class B)
CISPR 22	(2005, Class B)
EN 61000-3-2	(2000 + A2: 2005)
EN 61000-3-3	(1995+A1: 2001 + A2: 2005)
EN 55024	(1998+A1: 2001+A2: 2003)
IEC 61000-4-2	(1995 + A1: 1998 + A2: 2000)
IEC 61000-4-3	(2002+A1: 2002)
IEC 61000-4-4	(2004)
IEC 61000-4-5	(1995 + A1: 2000)
IEC 61000-4-6	(2003+A1: 2004)
IEC 61000-4-8	(1993 + A1: 2000)
IEC 61000-4-11	(2004)

**Responsible for marking this declaration if the:**

**Manufacturer**       **Authorized representative established within the EU**

**Authorized representative established within the EU (if applicable):**

**Company Name:**      **Planet Technology Corp.**

**Company Address:**    **11F, No.96, Min Chuan Road, Hsin Tien, Taipei, Taiwan, R.O.C**

**Person responsible for making this declaration**

**Name, Surname**      **John Sung**

**Position / Title :**    **Product Manager**

Taiwan  
Place

30 Sept, 2008  
Date

  
Legal Signature

### **PLANET TECHNOLOGY CORPORATION**

e-mail: sales@planet.com.tw    http://www.planet.com.tw

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