



LevelOne

GNS-1001

1-Bay Gigabit Network Storage

User Manual

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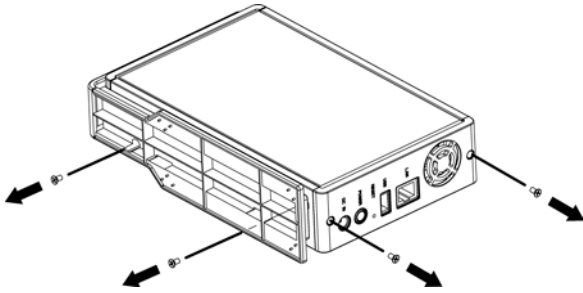
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Default Settings

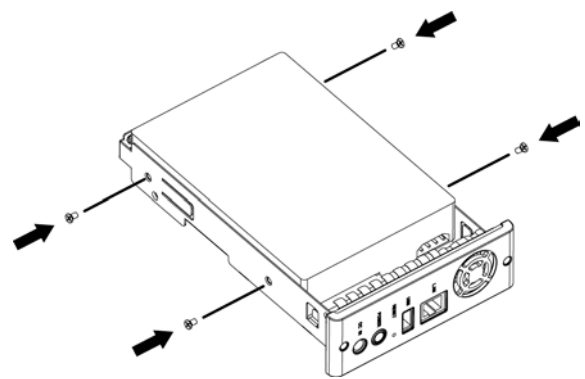
IP Address	192.168.1.254
User Name	admin
Password	admin

1 Installation Hard Disk

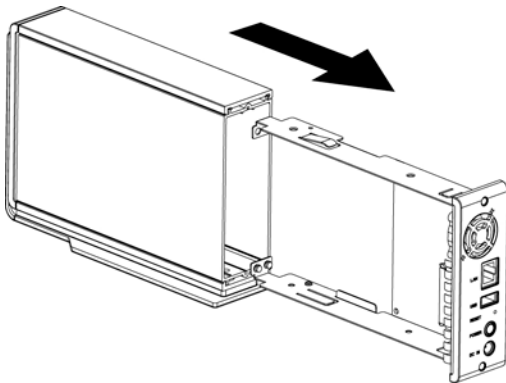
(Fig. 1)



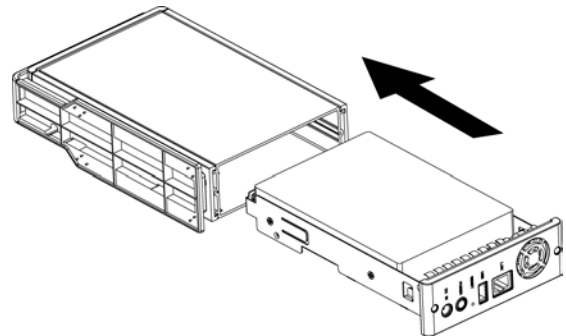
(Fig. 4)



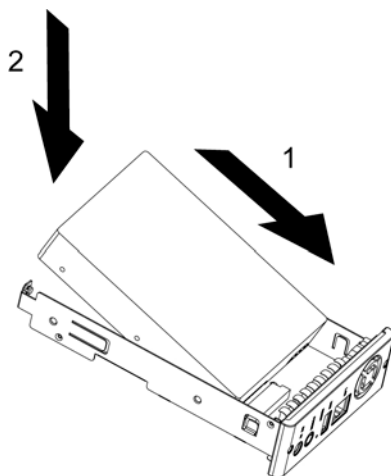
(Fig. 2)



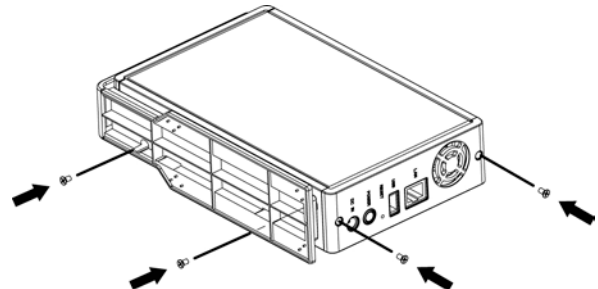
(Fig. 5)



(Fig. 3)



(Fig. 6)

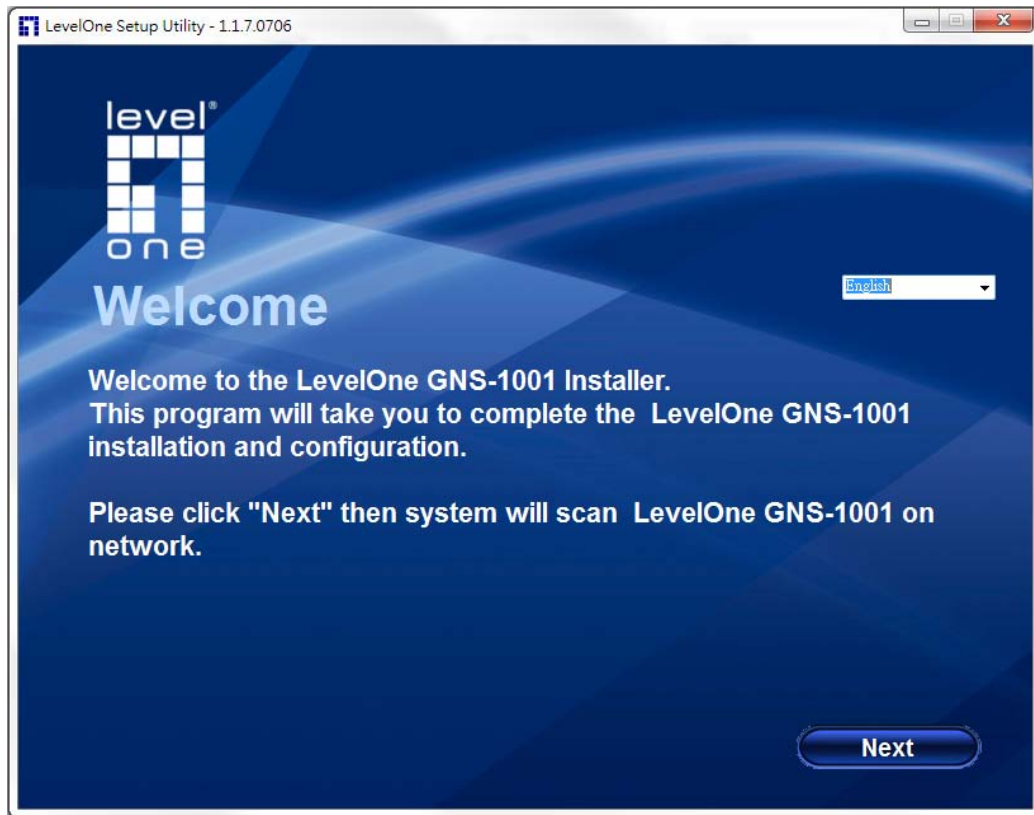


1. Remove the Hard Disk holder from the casing, loose 2 screws on the back & bottom. (Fig. 1)
2. Take out the inside Hard Disk Holder. (Fig. 2)
3. Insert the Hard Disk to the Hard Disk Holder. (Fig. 3)
4. Fasten the HDD to the holder from 2 sides with 2 screws each side. (Fig. 4)
5. Install the Hard Disk holder back to the casing. (Fig. 5)
6. Fasten the Hard Disk holder to the casing with 2 screws on the back & bottom. (Fig. 6)

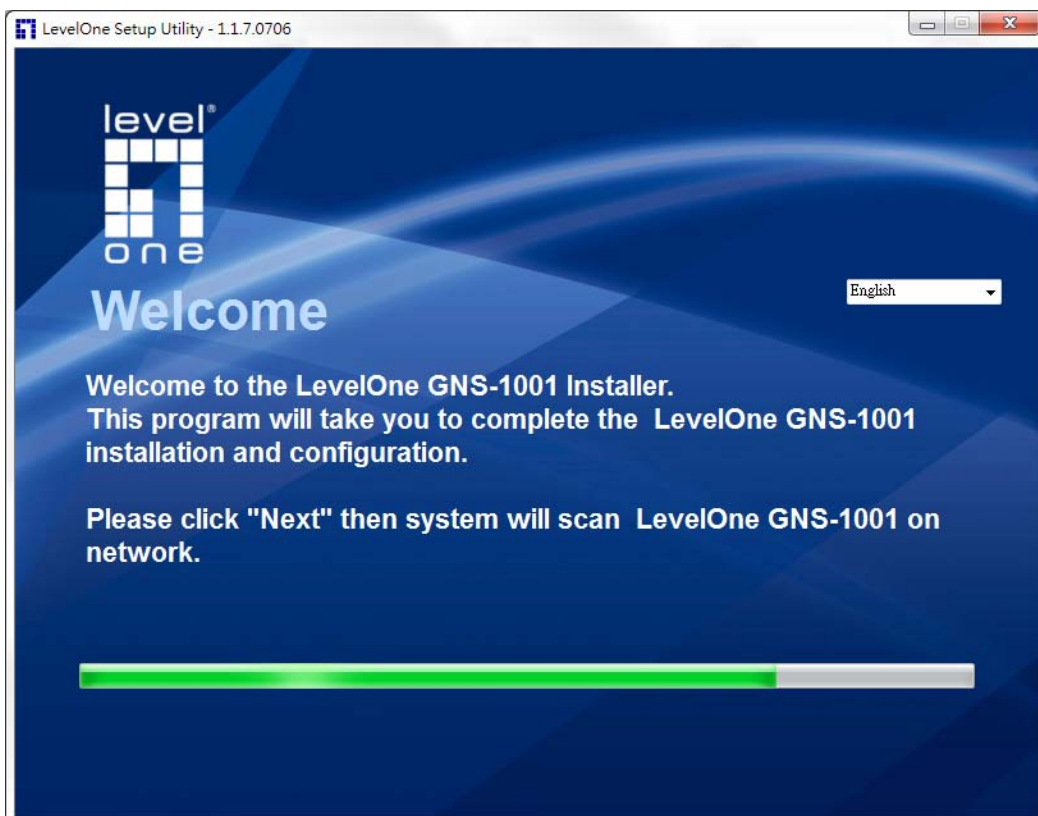
2 Initial NAS

2.1 Easy Installer

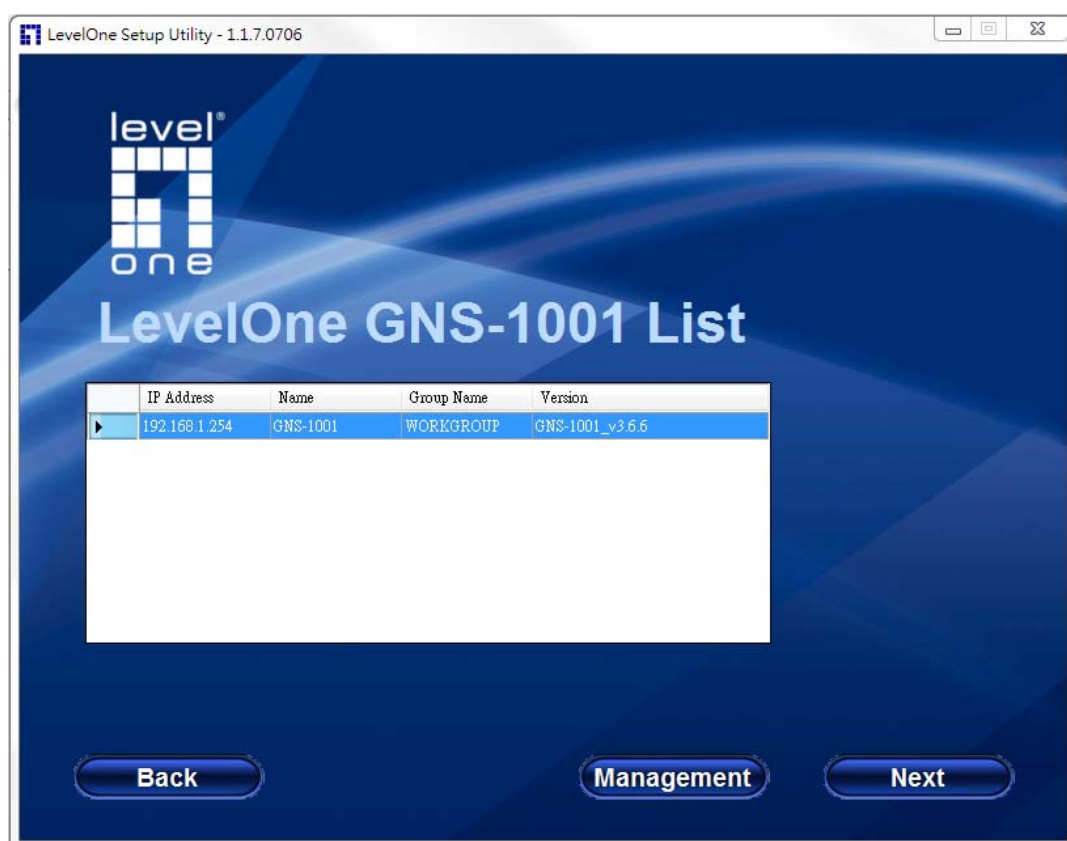
1. Welcome to the LevelOne NAS Easy Installer, please click “Next” to start initial NAS.



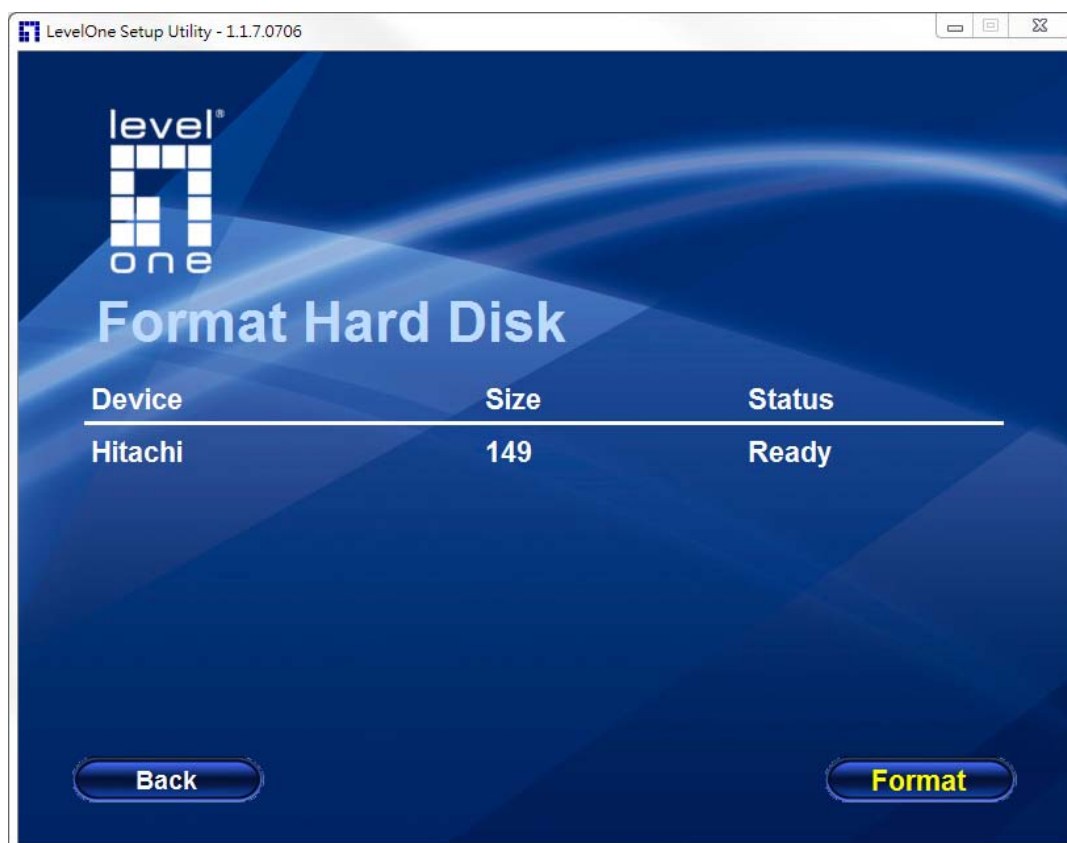
2. Scan the NAS from network.



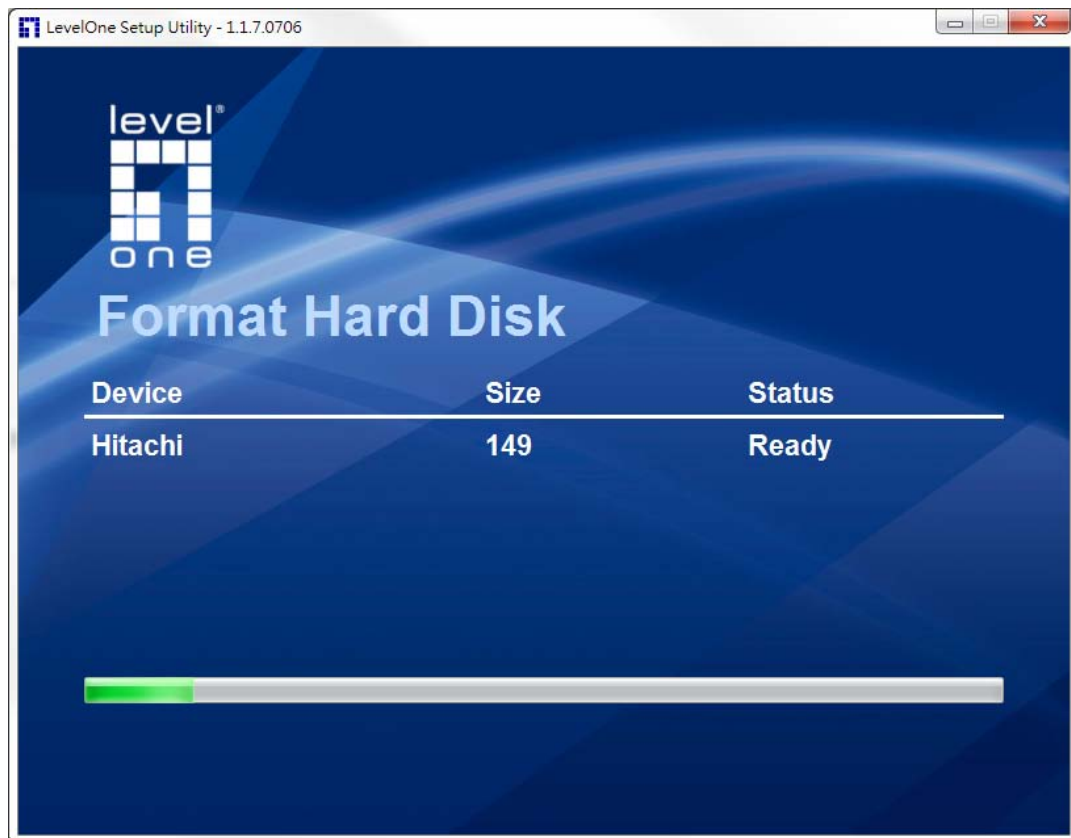
3. Please select a current NAS, and double click or click “Next” button.



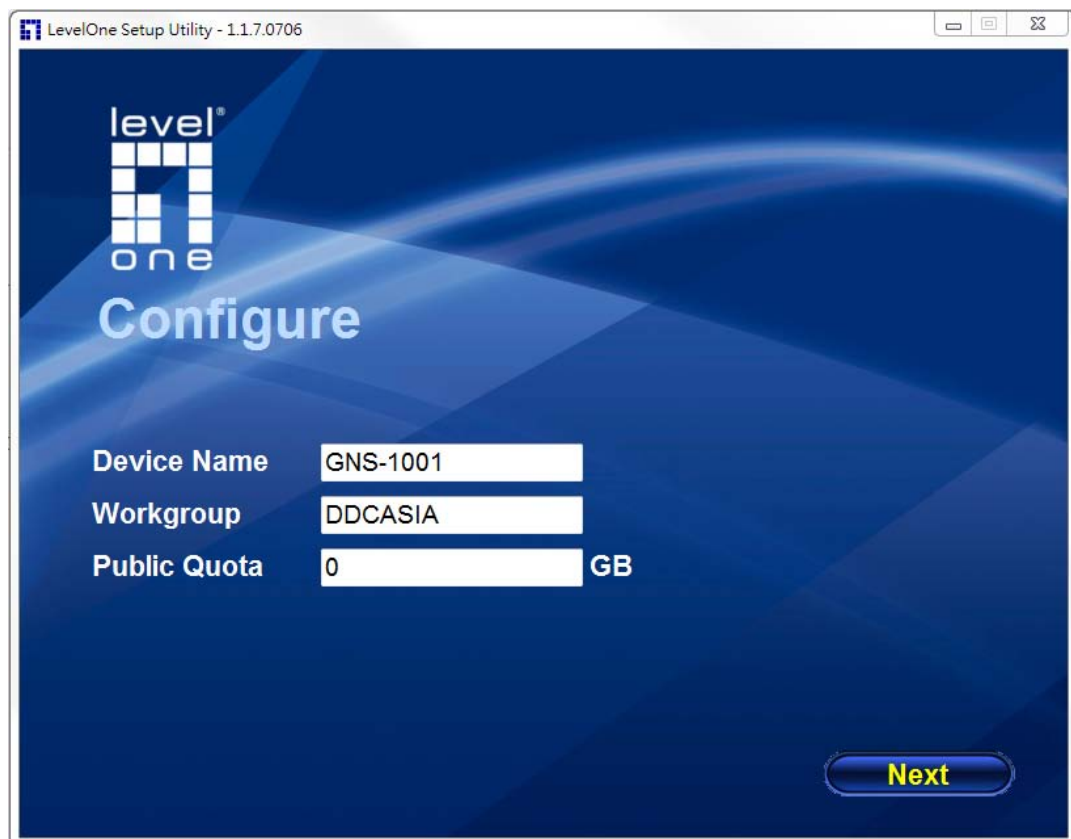
4. If the HDD is new (never formatted), it will show HDD information and ask you to format, please click “Format” button to format.



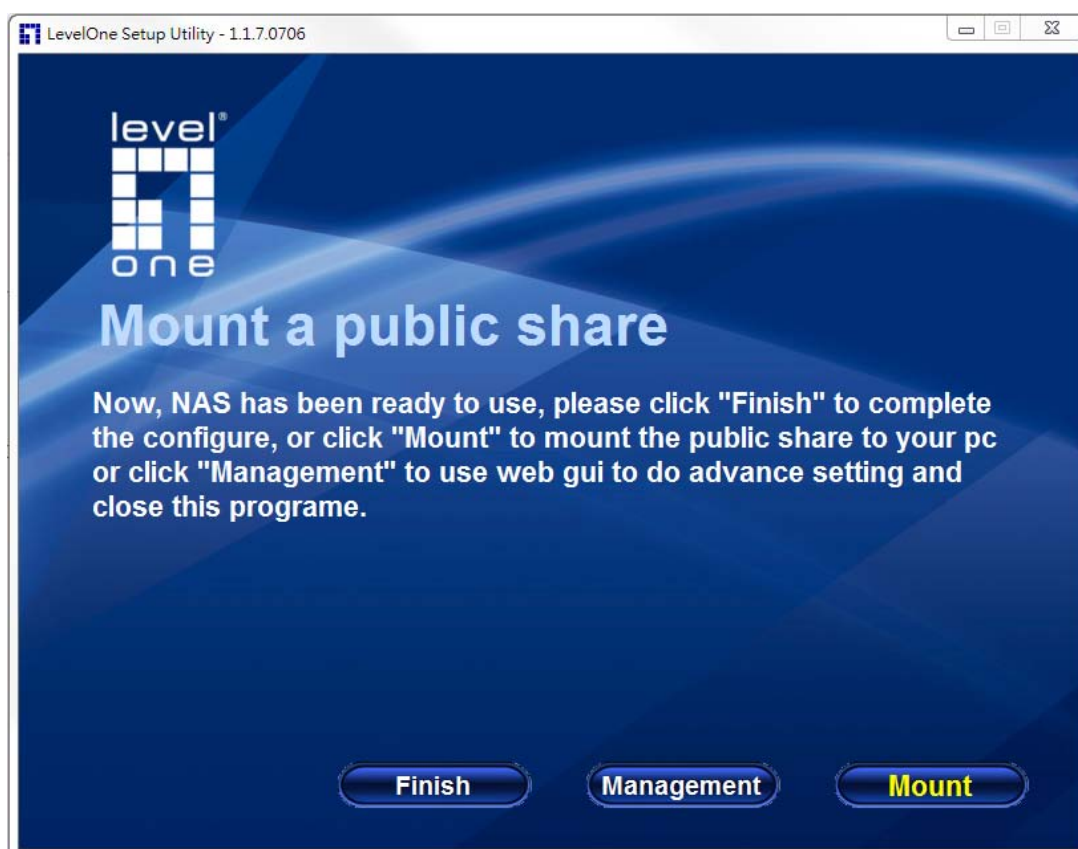
5. Formatting...



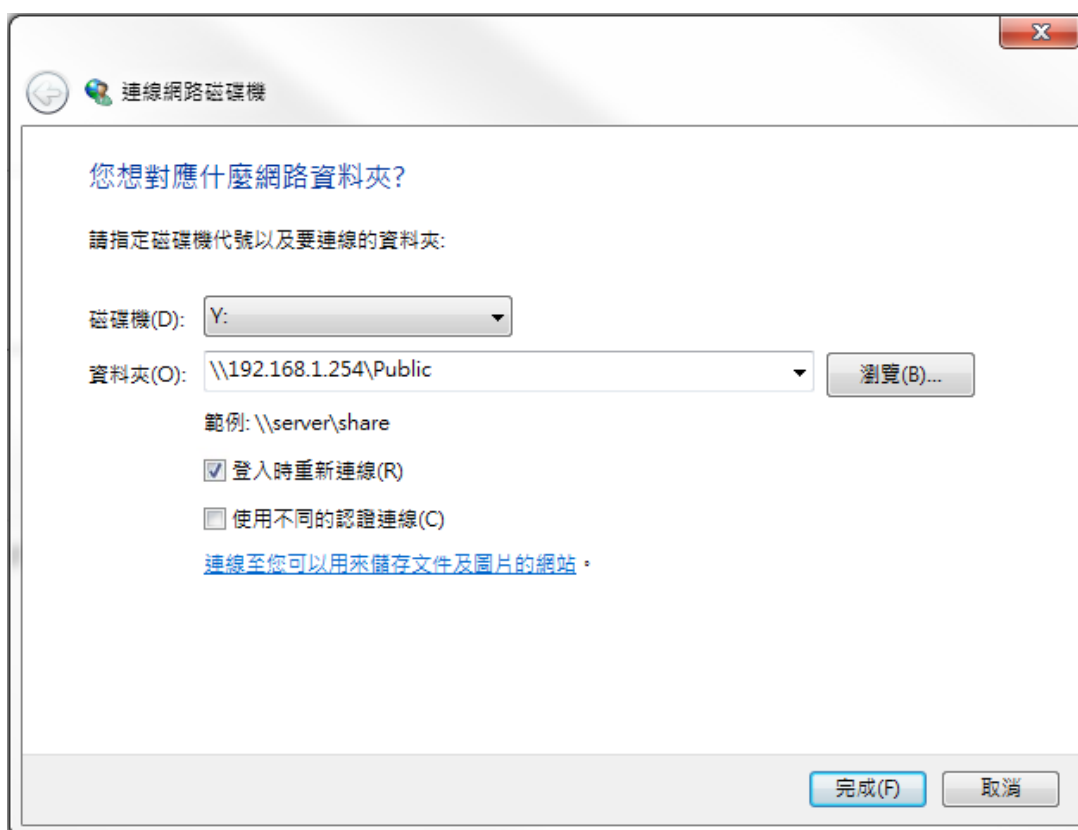
6. Set the device name, workgroup name and public share quota. (the system will show default by your computer)



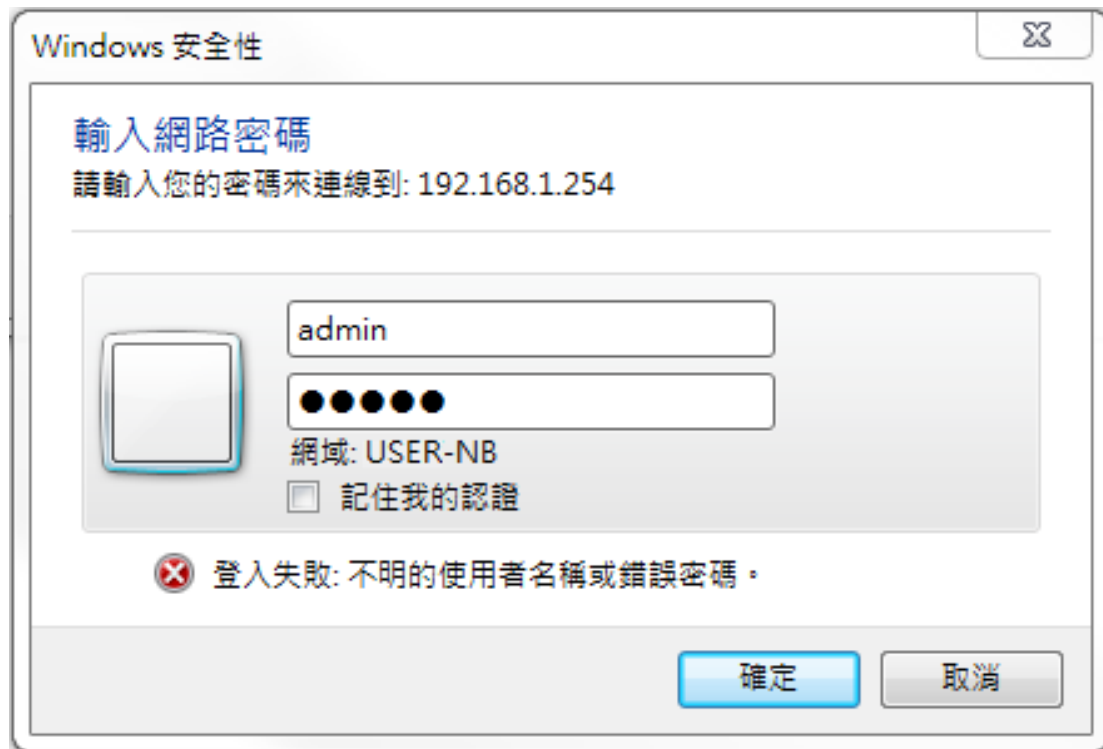
7. After format finish, you can click the “Mount” button to mount a remote disk to your computer.



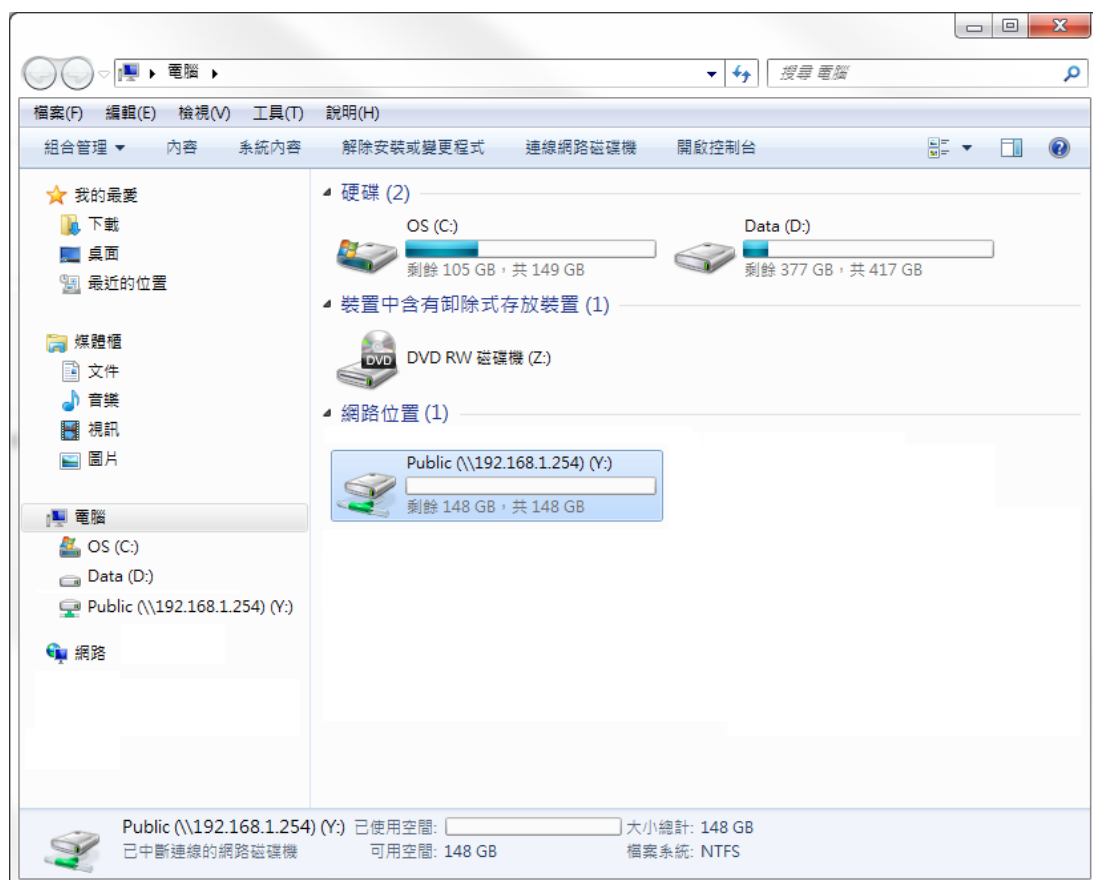
8. Select a device letter and check share folder.



9. The first one, you have not any user, so you can used system default manager user: “admin” and password is “admin”.



10. Finished, and you can easy to used.

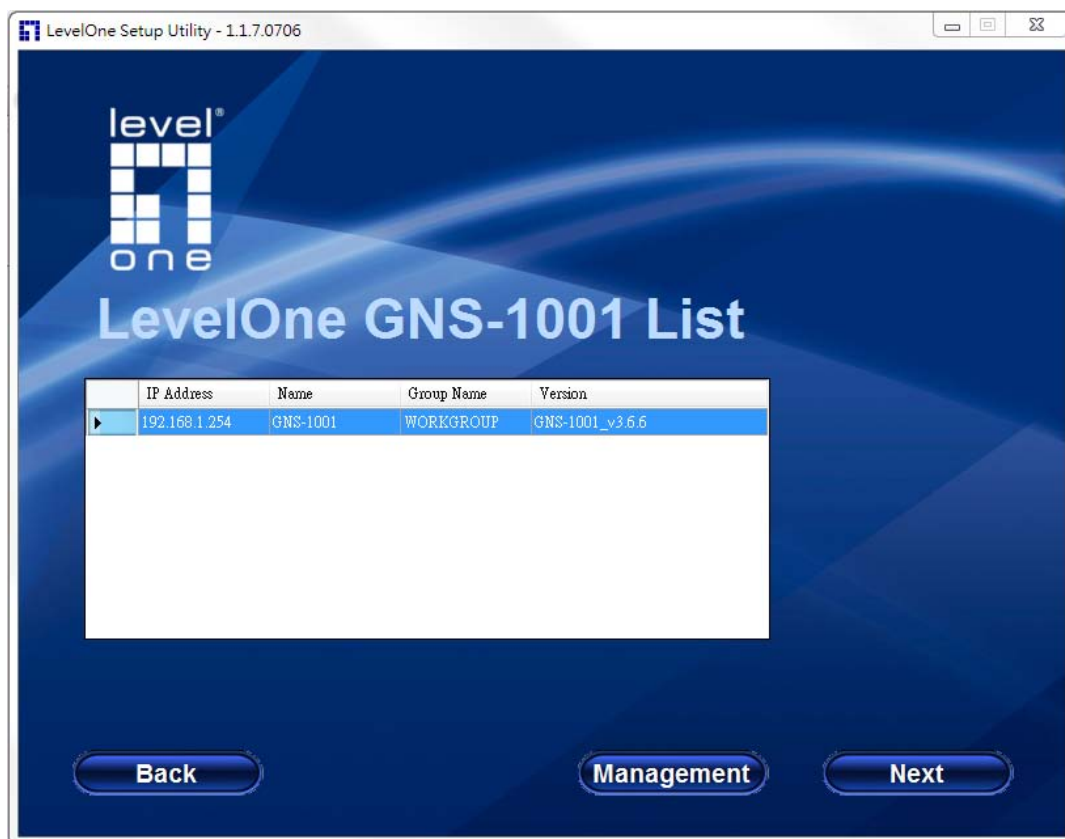


3 Getting Started

3.1 Connect Web Control

3.1.1 Connect by IP Address

From web browser type the NAS IP address, ex. <http://192.168.1.254>, and the IP address you can used “Utility” to auto search.

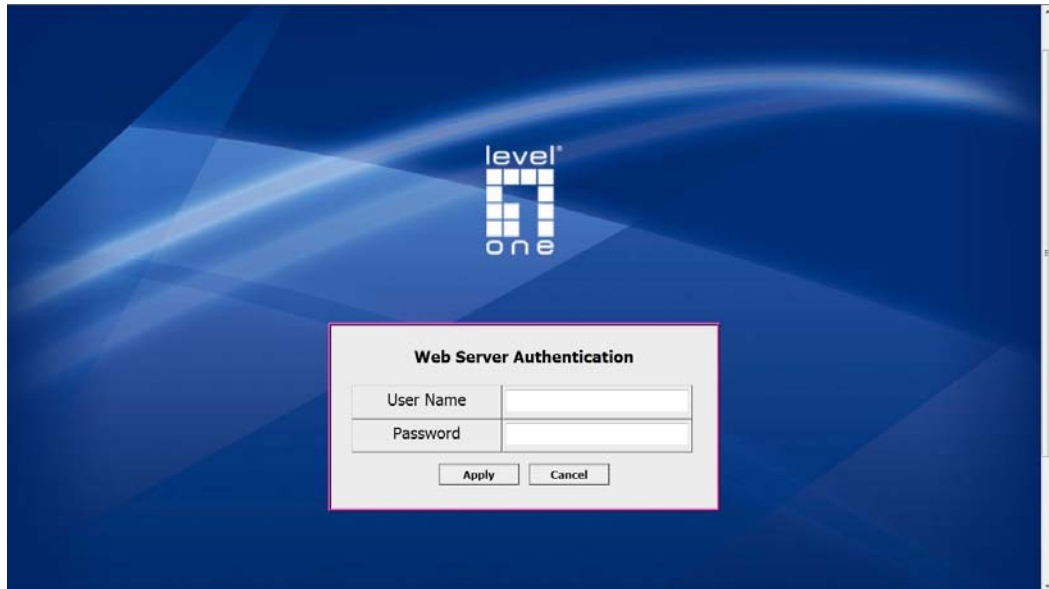


3.1.2 Connect by Device Name

From web browser type the NAS device name, the device name is “GNS-1001”, ex. <http://GNS-1001>, that also can used “Utility” to get it.

3.1.3 Default Administrator User Name and Password

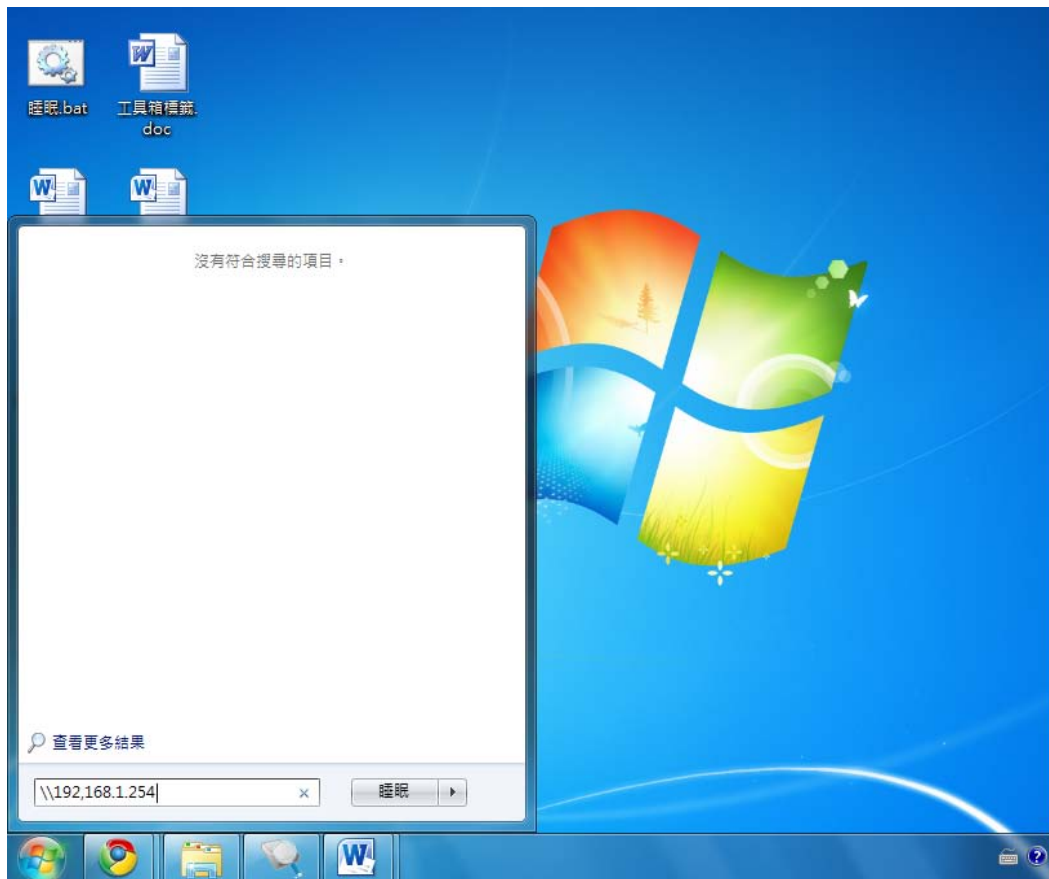
When connect the web user interface, the first page is login page, and the default manager user and password is admin/admin.



3.2 Connect Share Folder

3.2.1 Connect by IP Address

From windows command type the NAS IP address, ex. \\192.168.1.254, and the IP address you can used “Utility” to auto search.

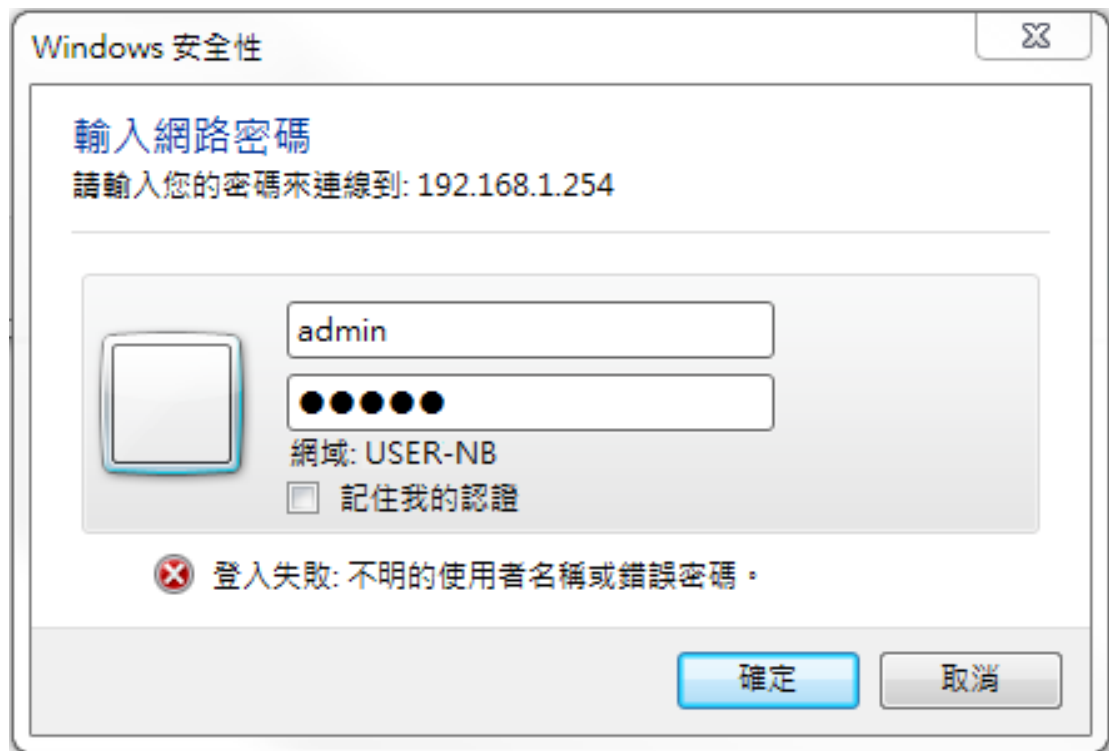


3.2.2 Connect by Device Name

From windows command type the NAS device name, the device name is “GNS-1001”, ex. [\\GNS-1001](#), that also can used “Utility” to get it.

3.2.3 Default Share Folder Password

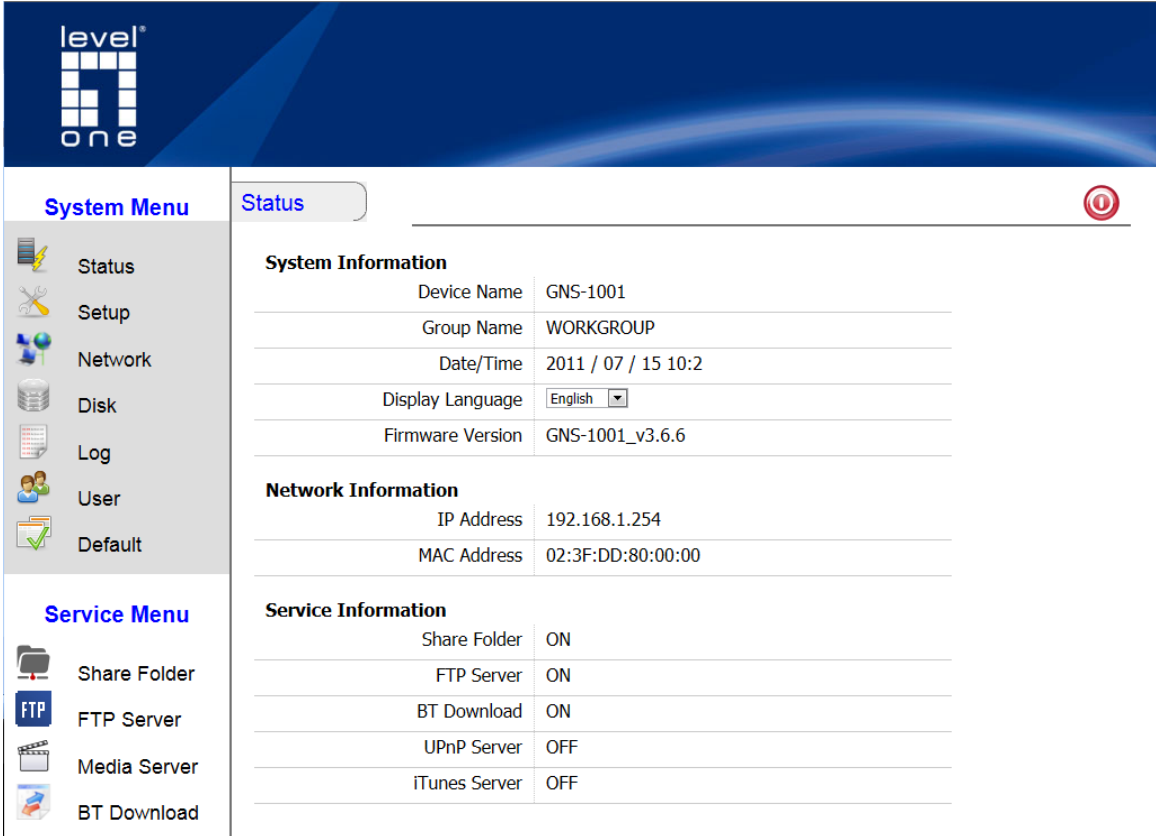
The NAS must create a user that can connect the share service, create the user, you can refer the user management page.



4 System Status

4.1 System Status

The first page is show the NAS's information, and the left frame is main menu that include system setup and system service, and the content's top is the sub function, click this can change the different function.



System Menu

- Status
- Setup
- Network
- Disk
- Log
- User
- Default

Service Menu

- Share Folder
- FTP Server
- Media Server
- BT Download

Status

System Information

Device Name	GNS-1001
Group Name	WORKGROUP
Date/Time	2011 / 07 / 15 10:2
Display Language	English
Firmware Version	GNS-1001_v3.6.6

Network Information

IP Address	192.168.1.254
MAC Address	02:3F:DD:80:00:00

Service Information

Share Folder	ON
FTP Server	ON
BT Download	ON
UPnP Server	OFF
iTunes Server	OFF

4.1.1 System Information

About the device name, group name, the NAS date/time, firmware version and default language.

4.1.2 Network Information

This block will to show the NAS IP address and the mac address.


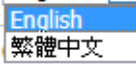
4.1.3 Service Information

This block will to show the NAS service status, the “ON” that mean the service is startup and ready, if it showing “OFF” that mean the service is stop.

4.1.4 Change Language

In this page, you can change the web user interface language by language draw-down list, click and select a language.

System Information

Device Name	GNS-1001
Group Name	WORKGROUP
Date/Time	2011 / 07 / 15 10:2
Display Language	English 
Firmware Version	 _v3.6.6

5 Setup

5.1 System Setup

The system setup includes the system, network, DHCP service, date/time and firmware upgrade.

5.1.1 System

System Information:

Device Name: the NAS device name.

Group Name: the NAS workgroup name.

SSL Service Status: if enable this service, the page will used HTTP + SSL, like https://

Administrator Settings:

This can change the NAS administrator password, and set the web user interface idle time, the idle time will logout user when the user never to operate the web over the idle time.

Power Management:

Click the reboot button will reboot this NAS.

The screenshot displays the Level One NAS web interface. The top header features the Level One logo and a navigation bar with tabs for System, Date/Time, and Upgrade. A left sidebar contains two menu sections: 'System Menu' with icons for Status, Setup, Network, Disk, Log, User, and Default; and 'Service Menu' with icons for Share Folder, FTP Server, Media Server, and BT Download. The main content area is titled 'System Information' and contains three sections: 'System Information' with fields for Device Name (GNS-1001), Group Name (WORKGROUP), and SSL Service Status (radio buttons for Enable and Disable, with Disable selected); 'Administrator Settings' with fields for New Password, Confirm password, and GUI Idle Time (10 minutes); and 'Power Management' with a 'Reboot' button. Each section has an 'Apply' button. A red information icon is located in the top right corner.

System Information	
Device Name	GNS-1001
Group Name	WORKGROUP
SSL Service Status	<input type="radio"/> Enable <input checked="" type="radio"/> Disable

Apply

Administrator Settings	
New Password	
Confirm password	
GUI Idle Time	10 minutes

Apply

Power Management

Click "Reboot" to have the device perform a software restart.
The SYSTEM LED will blink as the device restarts,
When the LED is steady, the restart is complete.
Log into the device again to access the web UI.

Reboot

5.1.2 Data/Time

This NAS is without RTC (real-time clock), so you must set the date & time when you start up the NAS, or you enable the NTP (Network Time Protocol) that will auto synchronize the date & time from internet.

Manual: manual setting the date & time.

Auto:

Daylight Saving Time: used daylight save time.

Time Zone: select a time zone.

NTP Server: select a NTP server or add a new NTP server, and you also can edit or delete a NTP server.

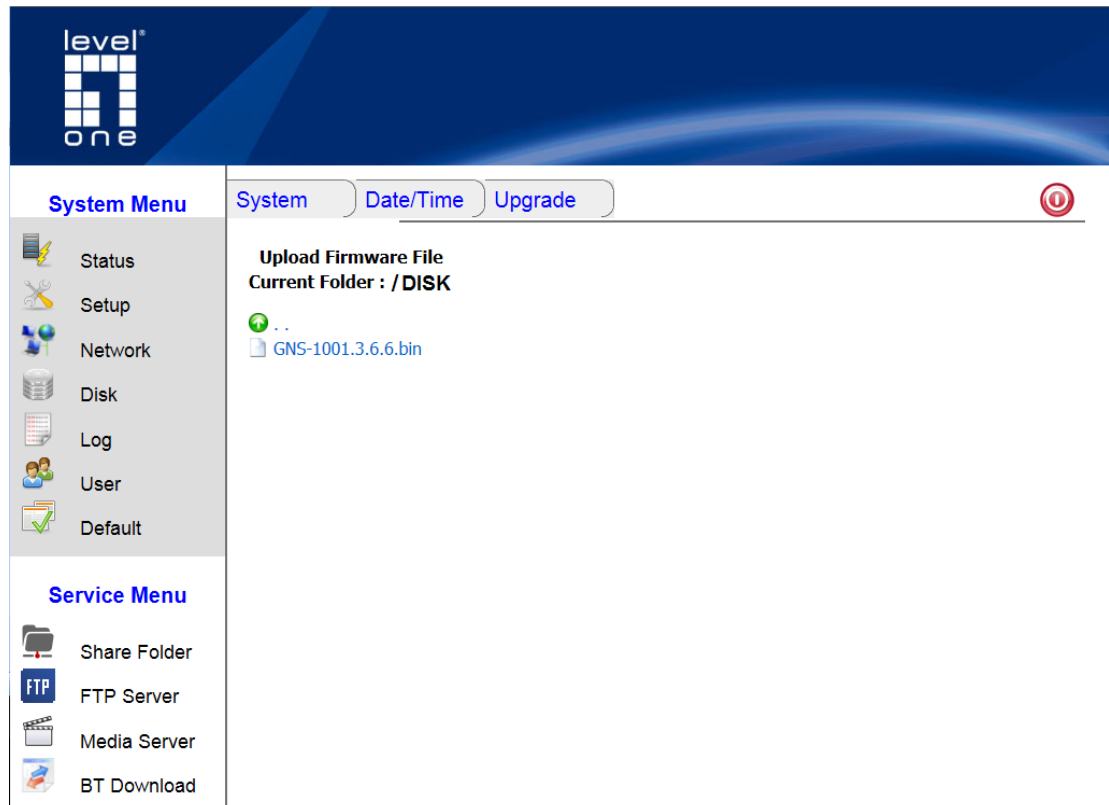
The screenshot displays the Level One NAS web interface. The top header features the 'level one' logo on a blue background. Below the header, a navigation bar includes tabs for 'System', 'Date/Time', and 'Upgrade', with a red circular icon on the right. The left sidebar contains two menu sections: 'System Menu' with icons for Status, Setup, Network, Disk, Log, User, and Default; and 'Service Menu' with icons for Share Folder, FTP Server, Media Server, and BT Download. The main content area is titled 'Date/Time' and has two radio buttons: 'Manually' and 'Auto'. The 'Manually' section includes fields for 'Date' (set to 2011/07/15) and 'Time' (set to 10:21), with an 'Apply' button. The 'Auto' section includes a 'Daylight Saving Time' toggle (set to 'Disable'), a 'Time Zone' dropdown menu (set to '(GMT+01:00) Amsterdam, Paris, Rome, Barcelona'), and an 'NTP Server' list. The NTP Server list contains 'clock.ac.org', 'ntp.ewha.net', 'time.windows.com', 'time.org.uk', and 'stdtime.gov.hk', with an 'Add' button. There are also 'Edit' and 'Delete' buttons for the NTP Server list, and an 'Apply' button at the bottom right.

5.1.3 Firmware Upgrade

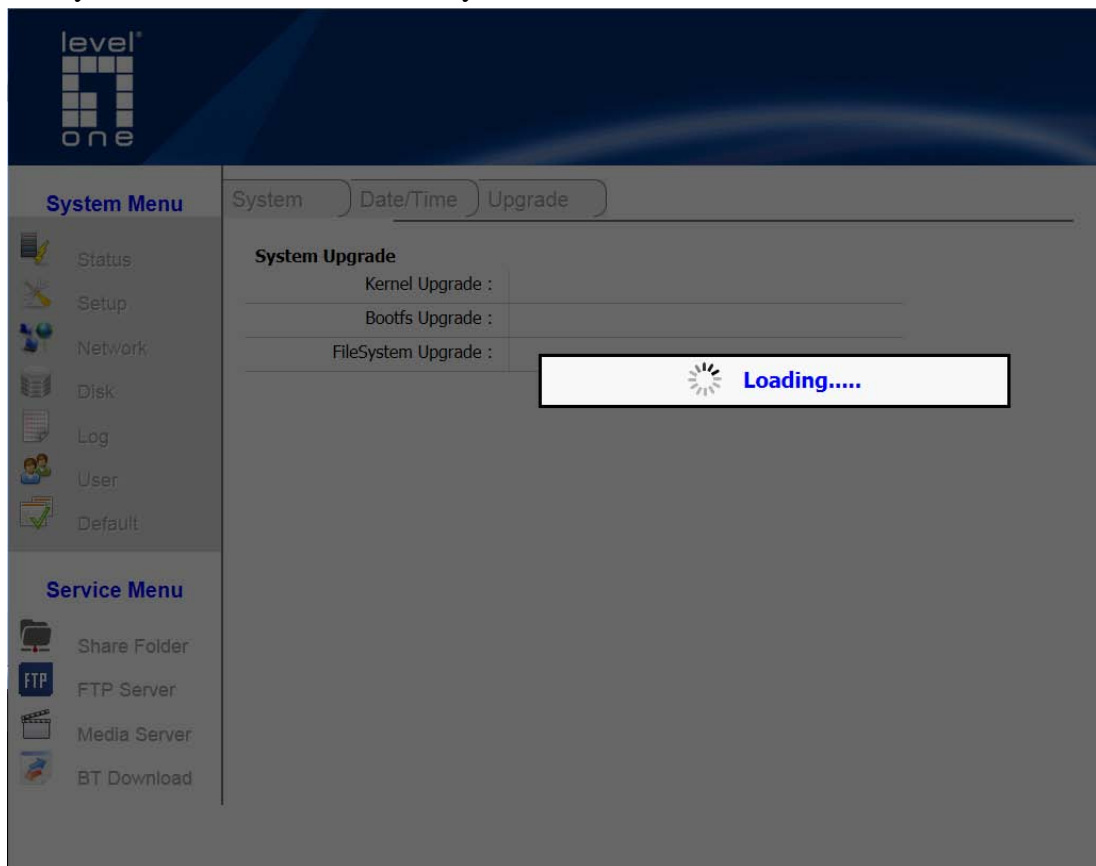
Upgrade the new firmware, you can select a firmware from local disk or usb device, and click the new firmware the system will start to upgrade, and when the upgrade finish, the NAS will reboot, and in this time, please do not anything or power off the NAS, until the NAS upgrade finish.

Firmware Upgrade Step by Step:

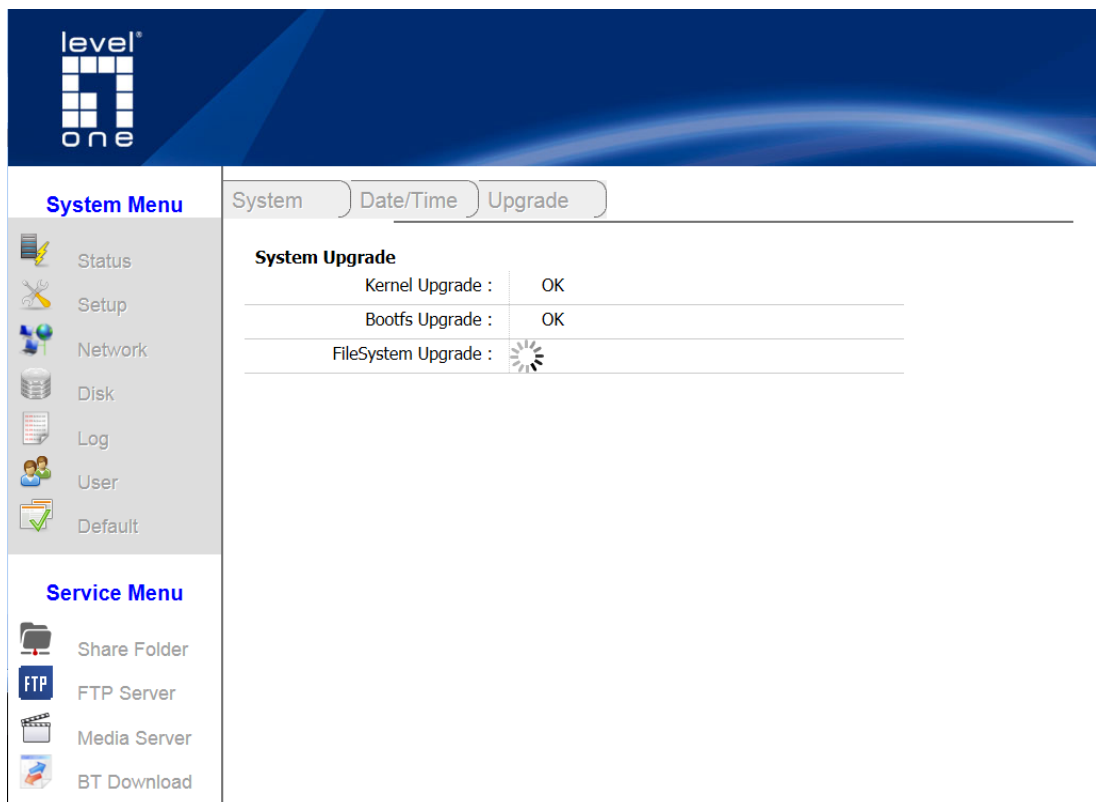
1. Select a firmware file, and click it



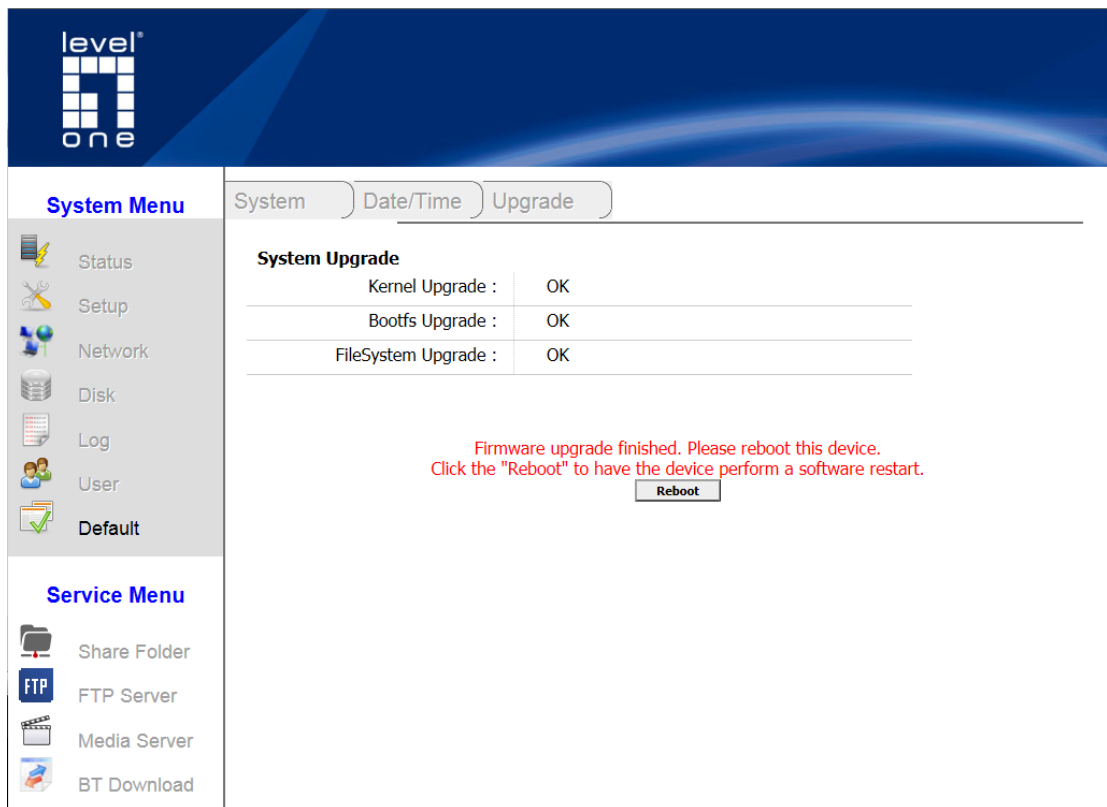
2. System load firmware and verify it.



3. Start upgrade firmware



4. Firmware upgrade finish, and you must click “Reboot” to reboot system.



5. When the system reboot, the new firmware will be available, and if upgrade fail, the NAS will not startup, so you must use the system recovery that will restore the NAS, about the system recovery please refer to the system recovery section.

5.2 Network

Network Information:

Link Speed: it is show the network speed 10/100/1000 Mbps.

Jumbo Frame: it can change the network page size.

IP Address

This block will set the ip is by dynamic (from DHCP) or static (by user manual setting).

The screenshot displays the Level One network configuration web interface. The top header features the 'level one' logo on a blue background. Below the header, a navigation bar includes 'System Menu', 'Network' (selected), 'DHCP', and 'DDNS'. A red power button icon is located on the right. The left sidebar contains two menu sections: 'System Menu' with options like Status, Setup, Network, Disk, Log, User, and Default; and 'Service Menu' with options like Share Folder, FTP Server, Media Server, and BT Download. The main content area is titled 'Network Interface' and shows 'Link Speed' as 100Mbps and 'Jumbo Frame' as 'Disable Jumbo Frames, MTU value is 1500 bytes'. Below this, the 'IP Address' section shows 'Network Type' set to 'Dynamic IP' (selected) with a radio button, and 'Static IP' as an unselected option. The IP configuration fields are as follows:

Field	Value
IP	192.168.1.254
Net Mask	255.255.255.0
Gateway	192.168.1.1
DNS 1	192.168.1.254
DNS 2	

An 'Apply' button is located at the bottom right of the configuration area.

5.2.1 DHCP Service

DHCP Service Configuration:

Service Status:

Auto: auto start DHCP service when the network has not any DHCP server, if the network has a DHCP server, the auto is does not start the service.

Enable: start the DHCP server.

Disable: stop the DHCP server.

IP pool address range: set the DHCP service IP address start and end.

Gateway: set the DHCP service gateway that will provide to DHCP client.

DNS 1: set the DHCP service first DNS that will provide to DHCP client.

DNS 2: set the DHCP service second DNS that will provide to DHCP client.

Lease Time: the DHCP lease time.

DHCP Client List:

This will show DHCP client list.

The screenshot shows the Level One web interface for DHCP service configuration. The interface has a blue header with the 'level one' logo. Below the header, there are three tabs: 'Network', 'DHCP' (selected), and 'DDNS'. On the left side, there is a 'System Menu' with icons for Status, Setup, Network, Disk, Log, User, and Default. Below that is a 'Service Menu' with icons for Share Folder, FTP Server, Media Server, and BT Download. The main content area is titled 'DHCP service configuration'. It contains several fields: 'Service Status' with radio buttons for 'Auto', 'Enable', and 'Disable' (selected); 'IP pool address range' with input fields for '192.168.1.100' and '192.168.1.199'; 'Gateway' with input fields for '192.168.1.1'; 'DNS 1' with input field '192.168.0.1'; 'DNS 2' with an empty input field; and 'Lease Time' with a dropdown menu set to '24 hours'. An 'Apply' button is located at the bottom right of the configuration section. Below the configuration section is the 'DHCP Client List' section, which has a 'Refresh' button and a table with three columns: 'MAC Address', 'IP Address', and 'Expires in'.

MAC Address	IP Address	Expires in
-------------	------------	------------

5.2.2 DDNS

The DDNS (Dynamic DNS) is a method / protocol / network service that provides the capability for a networked device, such as a router or computer system using the Internet Protocol Suite, to notify a Domain Name System (DNS) name server to change, in real time, the active DNS configuration of its configured hostnames, addresses or other information.

The screenshot shows the Level One web interface for DDNS configuration. The top header features the 'level one' logo. Below it, a navigation bar includes 'System Menu', 'Network', 'DHCP', and 'DDNS' (the active tab). A red information icon is on the right. The left sidebar contains two menu sections: 'System Menu' with links to Status, Setup, Network, Disk, Log, User, and Default; and 'Service Menu' with links to Share Folder, FTP Server, Media Server, and BT Download. The main content area is titled 'DDNS service configuration' and includes a 'Service Status' section with radio buttons for 'Enable' and 'Disable' (selected). Below this are input fields for 'Service Provider' (a dropdown menu showing 'DYNDNS.org'), 'Hostname', 'Username', 'Password', and 'Confirm password'. An 'Apply' button is located at the bottom right of this section. The 'Current DDNS Information' section displays a table with the following data:

Current DDNS Information	
Status	None DDNS daemon started
Internal Gateway	192.168.1.1
External Gateway	No responded from server.

5.3 Disk Setup

Disk setup is the disk information and setup operate, that about disk format, disk raid create and raid mode rebuild, and it also include S.M.A.R.T. information.

5.3.1 Setup

Current Disk Volume Configuration:

Logical Volumes: this is show the real space from disk.

Physical Disks: the physical disk information.

Disk Utility: In this, you can create disk raid or delete and repair disk.

HDD Power Management: if enable the power management the HDD will able to enter standby mode.

The screenshot shows the 'level one' disk setup utility. The interface has a blue header with the 'level one' logo. Below the header is a navigation bar with tabs: 'Setup' (selected), 'S.M.A.R.T', 'TEST', and 'Enhance'. On the left is a sidebar menu with 'System Menu' and 'Service Menu'. The 'System Menu' includes Status, Setup, Network, Disk, Log, User, and Default. The 'Service Menu' includes Share Folder, FTP Server, Media Server, and BT Download. The main content area displays the 'Current Disk Volume Configuration'. It includes a table for 'Logical Volumes' and a table for 'Physical Disks'. Below these are sections for 'Disk Utility' and 'HDD Power Management'.

Current Disk Volume Configuration

Logical Volumes		
Single Disk	Total Size	Free Size
Drive 1	149.0G	149.0G

Physical Disks				
Disk	Model	Capacity	Status	S.M.A.R.T
Drive 1	Hitachi	160.0	Ready	PASSED

Disk Utility

Create Disk Partition	Create
Delete Disk Partition	Delete
Repair Harddisk	Repair

HDD Power Management

Power Management	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Turn off harddisks after	30 minutes

Apply

5.3.2 S.M.A.R.T.

S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) is a monitoring system for computer hard disk drives to detect and report on various indicators of reliability, in the hope of anticipating failures.

System Menu

- Status
- Setup
- Network
- Disk
- Log
- User
- Default

Service Menu

- Share Folder
- FTP Server
- Media Server
- BT Download

S.M.A.R.T. Utility

Service Status: ☒ Enable ☐ Disable

Current Disk S.M.A.R.T. Configuration

Disk	Model	Temperature	Status
Drive 1	HDS721616PLA380	46 °C / 114 °F	PASSED

S.M.A.R.T. Testing Crontable

State	Date	Time
Fast Testing	Day: Mon ~ Day: Sun	Time: 02
General Testing	Day: Sat ~ Day: Sat	Time: 22

Disk Info: show the detail information.

S.M.A.R.T. Info: show the disk detail SMART information.

S.M.A.R.T Testing Crontable: set the SMART verify schedule.

S.M.A.R.T. Info

ID	ATTRIBUTE NAME	VALUE	WORST	THRESH	RAW VALUE	STATUS
1	Raw_Read_Error_Rate	100	100	016	0	OK
2	Throughput_Performance	100	100	050	0	OK
3	Spin_Up_Time	128	128	024	155	OK
4	Start_Stop_Count	100	100	000	738	OK
5	Reallocated_Sector_Ct	100	100	005	0	OK
7	Seek_Error_Rate	100	100	067	0	OK
8	Seek_Time_Performance	100	100	020	0	OK
9	Power_On_Hours	100	100	000	873	OK
10	Spin_Retry_Count	100	100	060	0	OK
12	Power_Cycle_Count	100	100	000	737	OK
192	Power-Off_Retract_Count	100	100	000	742	OK
193	Load_Cycle_Count	100	100	000	742	OK
194	Temperature_Celsius	130	130	000	46	OK
196	Reallocated_Event_Count	100	100	000	0	OK
197	Current_Pending_Sector	100	100	000	0	OK
198	Offline_Uncorrectable	100	100	000	0	OK
199	UDMA_CRC_Error_Count	200	253	000	5278	OK

Disk Info

Model	HDS721616PLA380
Serial Number	PVG904Z23MZZVV
Firmware Version	P22OABEA
Capacity	160.0 GB

5.3.3 Disk Test

Manual test the disk with S.M.A.R.T.

The screenshot shows the 'level one' web interface. The top navigation bar includes 'Setup', 'S.M.A.R.T.', 'TEST', and 'Enhance'. The left sidebar contains a 'System Menu' with links to Status, Setup, Network, Disk, Log, User, and Default, and a 'Service Menu' with links to Share Folder, FTP Server, Media Server, and BT Download. The main content area is titled 'S.M.A.R.T. TEST' and features a table with the following data:

TEST Function				
Disk	State	Ratio	Status	Function
Drive 1	<input checked="" type="radio"/> Fast Testing <input type="radio"/> General Testing	--	Completed without error	<input type="button" value="Apply"/>

Below the table is a loading spinner icon.

5.3.4 Enhance

If you plug-in a usb device, that will show the usb device information.

The screenshot shows the 'level one' web interface with the 'Enhance' tab selected. The left sidebar is identical to the previous screenshot. The main content area is titled 'Current USB Volume Configuration' and contains a table with the following data:

USB Disks				
Volume	Model	Total Size	Free Size	FileSystem
DISK	JetFlash Transcend 2GB	1.9G	1.2G	FAT

Below the table is a 'Refresh' button. Further down, there is a 'Backup Management' section with the text 'Click "Backup" button will backup USB device to Harddisk.' and a 'Backup' button.

5.4 System Log

5.4.1 System

The screenshot displays the Level One web interface. The top header features the Level One logo and a navigation bar with tabs for System, Connection, and Event. The left sidebar contains a System Menu with icons for Status, Setup, Network, Disk, Log, User, and Default, and a Service Menu with icons for Share Folder, FTP Server, Media Server, and BT Download. The main content area is titled 'System Log' and displays a list of system messages. The messages include kernel boot logs, hardware information, and system initialization details. A 'Refresh' button is located at the bottom right of the log area.

System Log

```
Jan 1 00:00:07 (none) kernel: klogd 1.5.0, log source = /proc/kmsg started.
Jan 1 00:00:07 (none) kernel: Linux version 2.6.31.14_7820 (root@JerryYang-VM) (gcc version 4.2.4) #7 SMP Mon Jun 20 02:3
Jan 1 00:00:07 (none) kernel: CPU: ARMv6-compatible processor [410fb025] revision 5 (ARMv7), cr=00c5387f
Jan 1 00:00:07 (none) kernel: CPU: VIPT nonaliasing data cache, VIPT nonaliasing instruction cache
Jan 1 00:00:07 (none) kernel: Machine: Oxsemi NAS
Jan 1 00:00:07 (none) kernel: 1 memory region
Jan 1 00:00:07 (none) kernel: Ignoring unrecognised tag 0x00000000
Jan 1 00:00:07 (none) kernel: Memory policy: ECC disabled, Data cache writealloc
Jan 1 00:00:07 (none) kernel: On node 0 totalpages: 32768
Jan 1 00:00:07 (none) kernel: free_area_init_node: node 0, pgdat c04f9460, node_mem_map c051d000
Jan 1 00:00:07 (none) kernel: Normal zone: 256 pages used for memmap
Jan 1 00:00:07 (none) kernel: Normal zone: 0 pages reserved
Jan 1 00:00:07 (none) kernel: Normal zone: 32512 pages, LIFO batch:7
Jan 1 00:00:07 (none) kernel: Built 1 zonelists in Zone order, mobility grouping on. Total pages: 32512
Jan 1 00:00:07 (none) kernel: Kernel command line: root=/dev/ram0 rw rootfstype=ext2 panic=1 console=ttyS0,115200 elevat
Jan 1 00:00:07 (none) kernel: PID hash table entries: 512 (order: 9, 2048 bytes)
Jan 1 00:00:07 (none) kernel: Dentry cache hash table entries: 16384 (order: 4, 65536 bytes)
Jan 1 00:00:07 (none) kernel: Inode-cache hash table entries: 8192 (order: 3, 32768 bytes)
Jan 1 00:00:07 (none) kernel: Memory: 128MB = 128MB total
Jan 1 00:00:07 (none) kernel: Memory: 122636KB available (4644K code, 295K data, 136K init, 0K highmem)
Jan 1 00:00:07 (none) kernel: Hierarchical RCU implementation.
Jan 1 00:00:07 (none) kernel: NR_IRQS:96
Jan 1 00:00:07 (none) kernel: OX820_RPS_init_irq: interrupts 64 to 96
Jan 1 00:00:07 (none) kernel: Console: colour dummy device 80x30
Jan 1 00:00:07 (none) kernel: console [ttyS0] enabled
Jan 1 00:00:07 (none) kernel: Calibrating delay loop... 279.34 BogoMIPS (lpj=1396736)
Jan 1 00:00:07 (none) kernel: Security Framework initialized
Jan 1 00:00:07 (none) kernel: Mount-cache hash table entries: 512
Jan 1 00:00:07 (none) kernel: CPU: Testing write buffer coherency: ok
Jan 1 00:00:07 (none) kernel: Calibrating local timer... 349.98MHz.
```

1

Refresh

5.4.2 Connection

The screenshot displays the Level One web interface with the 'Connection' tab selected. The layout is identical to the previous screenshot, but the main content area is titled 'Connection Log' and displays a list of connection-related messages. The messages show various parameters being ignored or processed, such as 'change notify timeout', 'peek command type', and 'direct writes'. A 'Refresh' button is located at the bottom right of the log area.

Connection Log

```
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "change notify timeout"
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "peek command type"
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "level2 oplock2"
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "preallocate"
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "incoherent"
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "direct writes"
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "preallocate"
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "incoherent"
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "direct writes"
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "preallocate"
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "incoherent"
[1970/01/01 00:00:29, 0] param/loadparm.c:lp_do_parameter(7176)
Ignoring unknown parameter "direct writes"
```

1

Refresh

5.4.3 Event

The screenshot displays the LevelOne web interface. At the top left is the 'level one' logo. Below it, there are two main menu sections: 'System Menu' and 'Service Menu'. The 'System Menu' includes links for Status, Setup, Network, Disk, Log, User, and Default. The 'Service Menu' includes links for Share Folder, FTP Server, Media Server, and BT Download. At the top right, there are tabs for 'System', 'Connection', and 'Event', with the 'Event' tab currently selected. A red circular icon with a white 'e' is also present in the top right corner. The main content area is titled 'Event Log' and contains a scrollable list of system events. The events are timestamped and include details about the smartd service, such as starting, opening configuration files, and monitoring devices. A red '1' is visible in the left margin of the event log. At the bottom right of the event log area, there is a 'Refresh' button.

level one

System Menu

- Status
- Setup
- Network
- Disk
- Log
- User
- Default

Service Menu

- Share Folder
- FTP Server
- Media Server
- BT Download

System **Connection** **Event**

Event Log

```
Jan 1 00:00:29 (none) mDNSResponder (Engineering Build) (Dec 9 2010 10:53:16) [885]: starting
Jan 1 00:00:34 (none) smartd[1026]: smartd version 5.33 [arm-unknown-linux-gnueabi] Copyright (C) 2002-4 Bruce Allen
Jan 1 00:00:34 (none) smartd[1026]: Home page is http://smartmontools.sourceforge.net/
Jan 1 00:00:34 (none) smartd[1026]: Opened configuration file /etc/sysconfig/config/smartd.conf
Jan 1 00:00:34 (none) smartd[1026]: File /etc/sysconfig/config/smartd.conf line 1 (drive /dev/sda): warning, character 11 (-) lo
Jan 1 00:00:34 (none) smartd[1026]: Configuration file /etc/sysconfig/config/smartd.conf parsed.
Jan 1 00:00:34 (none) smartd[1026]: Device: /dev/sda, opened
Jan 1 00:00:34 (none) smartd[1026]: Device: /dev/sda, not found in smartd database.
Jan 1 00:00:35 (none) smartd[1026]: Device: /dev/sda, is SMART capable. Adding to "monitor" list.
Jan 1 00:00:35 (none) smartd[1026]: Device: /dev/sda, opened
Jan 1 00:00:35 (none) smartd[1026]: Device: /dev/sda, not found in smartd database.
Jan 1 00:00:35 (none) mDNSResponder (Engineering Build) (Dec 9 2010 10:53:16) [1052]: starting
Jan 1 00:00:36 (none) smartd[1026]: Device: /dev/sda, is SMART capable. Adding to "monitor" list.
Jan 1 00:00:36 (none) smartd[1026]: Monitoring 2 ATA and 0 SCSI devices
Jan 1 00:00:37 (none) smartd[1057]: smartd has fork()ed into background mode. New PID=1057.
Jan 1 00:00:37 (none) smartd[1057]: file /var/run/smartd.pid written containing PID 1057
Jan 1 00:00:45 (none) mDNSResponder (Engineering Build) (Dec 9 2010 10:53:16) [1317]: starting
Jul 15 10:14:02 (none) mDNSResponder: mDNSPlatformRawTime went backwards by 2142588165 ticks; setting correction factor
Jan 1 00:00:28 (none) smartd[822]: smartd version 5.33 [arm-unknown-linux-gnueabi] Copyright (C) 2002-4 Bruce Allen
Jan 1 00:00:28 (none) smartd[822]: Home page is http://smartmontools.sourceforge.net/
Jan 1 00:00:28 (none) smartd[822]: Opened configuration file /etc/sysconfig/config/smartd.conf
Jan 1 00:00:28 (none) smartd[822]: File /etc/sysconfig/config/smartd.conf line 1 (drive /dev/sda): warning, character 11 (-) lo
Jan 1 00:00:28 (none) smartd[822]: Configuration file /etc/sysconfig/config/smartd.conf parsed.
Jan 1 00:00:28 (none) smartd[822]: Device: /dev/sda, opened
Jan 1 00:00:28 (none) smartd[822]: Device: /dev/sda, not found in smartd database.
Jan 1 00:00:28 (none) smartd[822]: Device: /dev/sda, is SMART capable. Adding to "monitor" list.
Jan 1 00:00:28 (none) smartd[822]: Device: /dev/sda, opened
Jan 1 00:00:28 (none) smartd[822]: Device: /dev/sda, not found in smartd database.
Jan 1 00:00:29 (none) smartd[822]: Device: /dev/sda, is SMART capable. Adding to "monitor" list.
Jan 1 00:00:29 (none) smartd[822]: Monitoring 2 ATA and 0 SCSI devices
```

1

Refresh

5.5 User Management

5.5.1 Folder Management

In this block you can create a folder to NAS, and it also can edit and delete the folder.

Folder Manager

Available Folders	<div>DISK Public Media BitTorrent TestFolder</div>	<div>Add Edit Delete</div>
-------------------	---	------------------------------------

Access mode: that mean this folder will share for everyone or personal.

Create folder

Folder name	<input type="text" value="TestFolder"/>
Access mode	<input checked="" type="radio"/> Anonymous <input type="radio"/> Personal

Apply

Modify folder

Folder name	<input type="text" value="TestFolder"/>
Access mode	<input checked="" type="radio"/> Anonymous <input type="radio"/> Personal

Apply

5.5.2 User Management

In this block you can create a user to NAS, and it also can edit and delete the user

User Account

<input type="checkbox"/>	Account	Login	Write Access
<input type="checkbox"/>	user1	<input checked="" type="radio"/> allow <input type="radio"/> disallow	<input checked="" type="radio"/> allow <input type="radio"/> disallow

Apply

Create
Delete

Quota Setting: that mean this user can used disk space size.

Create User

User Name	<input type="text" value="user1"/>
Password	<input type="password" value="*****"/>
Quota Setting	<input type="radio"/> Unlimited <input checked="" type="radio"/> 5 GB

Apply

Modify User

User Name	<input type="text" value="user1"/>
Password	<input type="password"/>
Quota Setting	<input type="radio"/> Unlimited <input checked="" type="radio"/> 5 GB

Apply

5.5.3 Rights Management

Set the user and folder rights, you must select a folder, then the user block will auto update the rights list, and now, you can change the rights setting, after finish, please click the apply button, then the changed will be effective.

User Account List:

Account: user name

Login: if select allow that mean this user can access the folder.

Write Access: if select allow that mean this user can read and write the folder, if select disallow this user have only read rights.

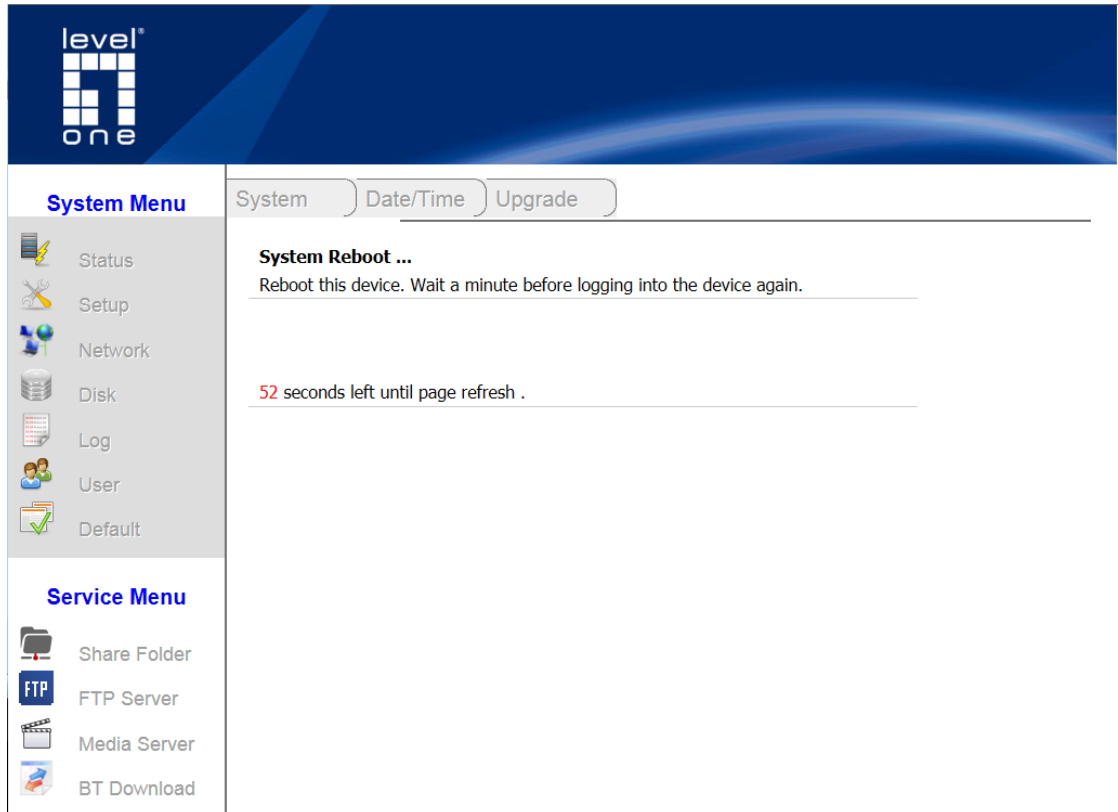
The screenshot shows the Level One web interface for user management. On the left is a sidebar with two menu sections: 'System Menu' and 'Service Menu'. The 'System Menu' includes Status, Setup, Network, Disk, Log, User, and Default. The 'Service Menu' includes Share Folder, FTP Server, Media Server, and BT Download. The main content area is titled 'User' and contains two sections: 'Folder Manager' and 'User Account'. In the 'Folder Manager' section, there is a list of 'Available Folders' (DISK, Public, Media, BitTorrent, TestFolder) with 'TestFolder' selected. To the right of this list are buttons for 'Add', 'Edit', and 'Delete'. The 'User Account' section displays a table of users and their permissions. The table has columns for 'Account', 'Login', and 'Write Access'. There are two users listed: 'user1' and 'user2'. For 'user1', 'Login' is set to 'allow' and 'Write Access' is set to 'allow'. For 'user2', 'Login' is set to 'allow' and 'Write Access' is set to 'disallow'. To the right of the table are buttons for 'Create', 'Delete', and 'Apply'.

Account	Login	Write Access
user1	<input checked="" type="radio"/> allow <input type="radio"/> disallow	<input checked="" type="radio"/> allow <input type="radio"/> disallow
user2	<input checked="" type="radio"/> allow <input type="radio"/> disallow	<input type="radio"/> allow <input checked="" type="radio"/> disallow

5.6 Default

5.6.1 Reset to Default

This will reset this NAS to factory default, and the user and data will be loss, so please backup these first.



6 Service

6.1 Share Folder

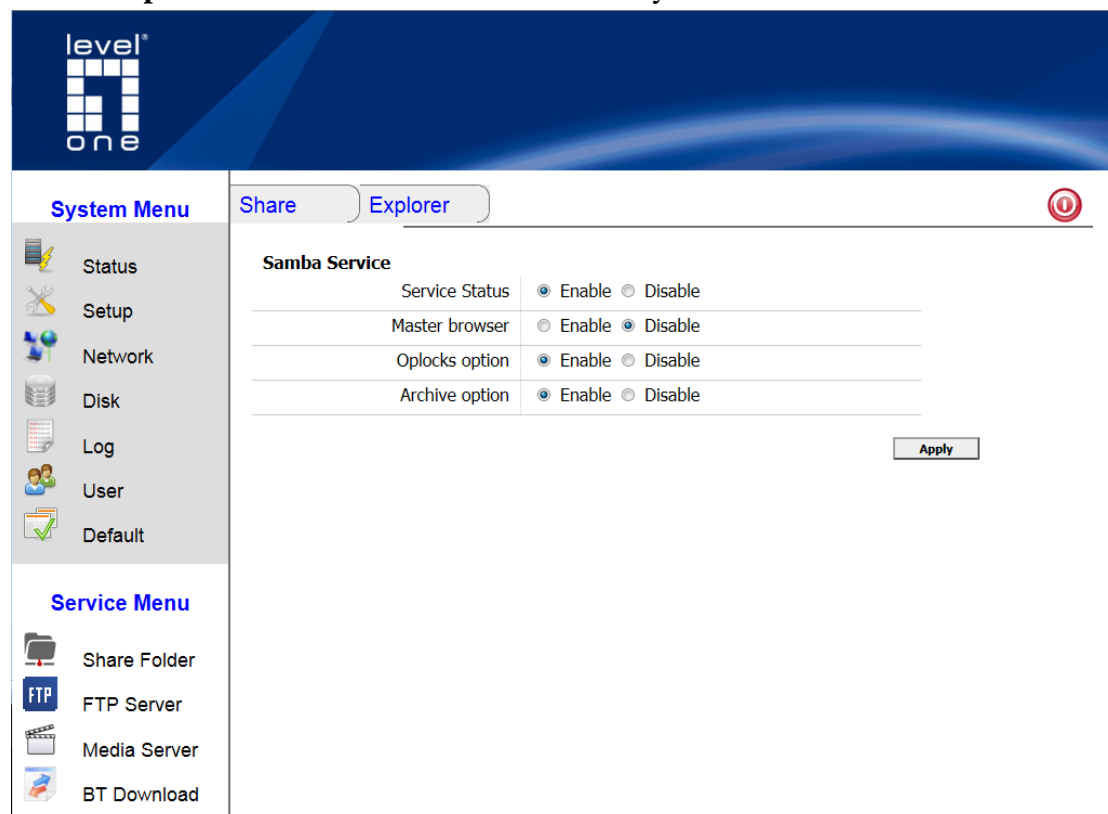
6.1.1 Service Management

Service Status: Enable / Disable share folder service.

Master browser: Enable / Disable master browser.

Oplocks option: Enable / Disable the opportunistic lock.

Archive option: Enable / Disable the network recycle bin.



The screenshot shows the LevelOne web interface for Samba Service configuration. The interface has a blue header with the 'level one' logo. Below the header, there are two tabs: 'Share' and 'Explorer'. The 'Share' tab is active. On the left side, there is a 'System Menu' with icons for Status, Setup, Network, Disk, Log, User, and Default. Below the 'System Menu' is a 'Service Menu' with icons for Share Folder, FTP Server, Media Server, and BT Download. The main content area is titled 'Samba Service' and contains a table with four rows: 'Service Status', 'Master browser', 'Oplocks option', and 'Archive option'. Each row has two radio buttons for 'Enable' and 'Disable'. The 'Service Status' row has 'Enable' selected. The 'Master browser' row has 'Disable' selected. The 'Oplocks option' row has 'Enable' selected. The 'Archive option' row has 'Enable' selected. An 'Apply' button is located at the bottom right of the table.

Samba Service	
Service Status	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Master browser	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Oplocks option	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Archive option	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Apply

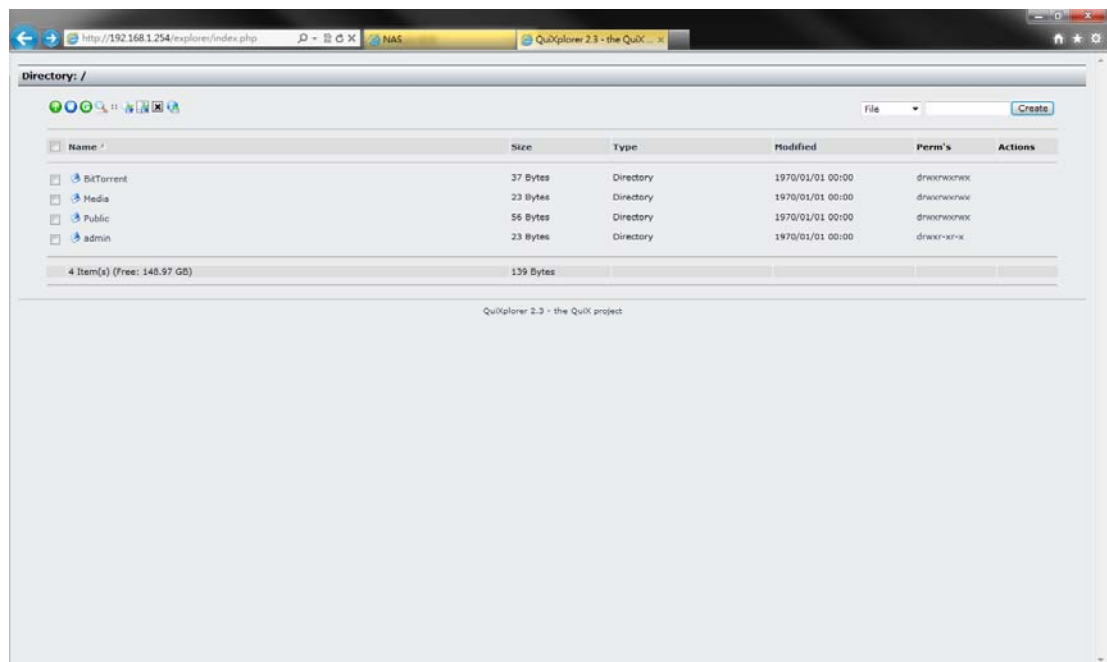
Notes:

Oplock: An opportunistic lock, or oplock, is a mechanism that is designed to allow clients to dynamically alter their buffering strategy in a consistent manner in order to increase performance and reduce network use. The network performance for remote file operations may be increased if a client can locally buffer file data, which reduces or eliminates the need to send and receive network packets. For example, a client may not have to write information into a file on a remote server if the client confirms that no other process is accessing the data. Likewise, the client may buffer read-ahead data from the remote file if the client confirms that no other process is writing data to the remote file.

6.1.2 Web Explorer (QuiXplorer)

The web file Explorer is power by QuiXplorer, so you can visit it by:

<http://quixplorer.sourceforge.net/>



6.2 FTP Server

level one

System Menu

- Status
- Setup
- Network
- Disk
- Log
- User
- Default

Service Menu

- Share Folder
- FTP**
- Media Server
- BT Download

FTP

FTP Setup

Service Status	<input checked="" type="radio"/> Enable <input type="radio"/> Disable		
Service port	21		
PASV mode port range	65400 - 65420	50000-65534	
Upload Transfer Rate	100	kB/s	
Download Transfer Rate	50	kB/s	

Apply

Anonymous Configuration

Allow Anonymous FTP Access?	<input checked="" type="radio"/> Enable <input type="radio"/> Disable		
Anonymous FTP Access	<input type="radio"/> Read Only <input checked="" type="radio"/> Read / Write		
Upload Transfer Rate	10	kB/s	
Download Transfer Rate	5	kB/s	

Apply

6.2.1 Service Management

Service Status: Enable/Disable FTP Server.

Service port: set the FTP service port.

PASV mode port range: set PASV mode port range.

Upload transfer Rate: set upload transfer speed.

Download transfer Rate: set download transfer speed.

6.2.2 Anonymous Management

Allow Anonymous FTP Access: Enable/Disable anonymous.

Anonymous FTP Access: set anonymous rights, read only or read/write.

Upload Transfer Rate: set anonymous upload transfer speed.

Download Transfer Rate: set anonymous download transfer speed.

6.3 Media Server

6.3.1 UPnP

UPnP AV media server is a computer system or a similar digital appliance that stores digital media, such as photographs, movies, or music and shares these with other devices. These media servers use the Universal Plug and Play (UPnP) protocols to communicate with other devices.

UPnP Status: Enable/Disable UPnP media server. (You must select a media share folder first from below folder tree).

Default Rescan Time: set the media server auto scan content timer.

Current UPnP Folder: current UPnP share folder.

level[®]
one

System Menu

- Status
- Setup
- Network
- Disk
- Log
- User
- Default

Service Menu

- Share Folder
- FTP Server
- Media Server
- BT Download

UPnP iTunes

UPnP Setup

UPnP Status	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Default Rescan Time	5 minutes
Current UPnP Folder	/Media

Apply Rescan

Current Folder : /

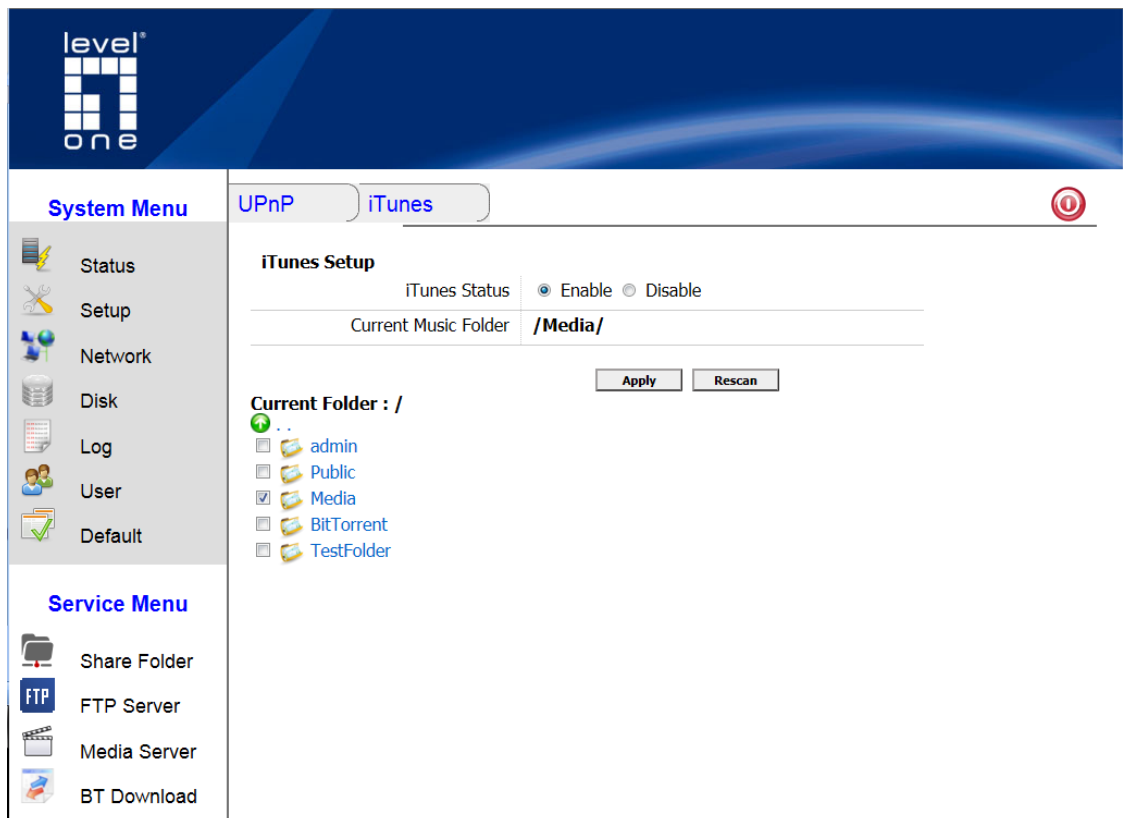
- ..
- admin
- Public
- ☒ Media
- BitTorrent
- TestFolder

6.3.2 iTunes

iTunes is a proprietary digital media player application, used for playing and organizing digital music and video files. The application is also an interface to manage the contents on Apple's iPod and iPhone lines, as well as the iPad.

iTunes Status: Enable/Disable iTunes media server. (You must select a media share folder first from below folder tree).

Current UPnP Folder: current iTunes share folder.



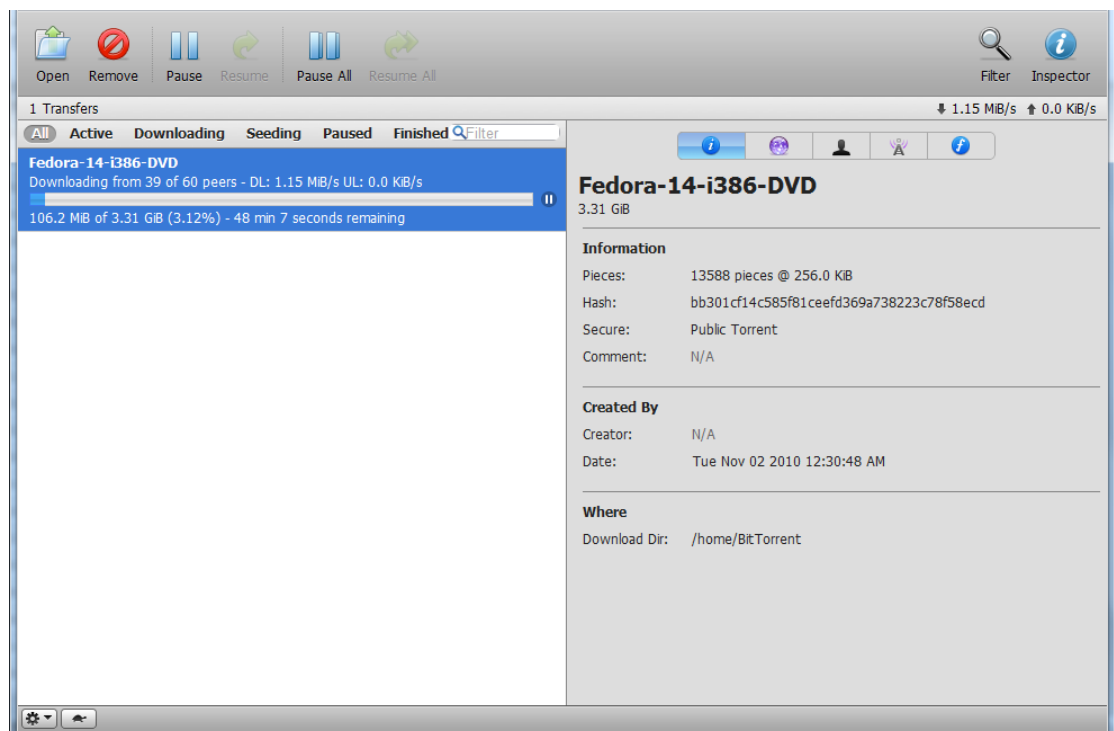
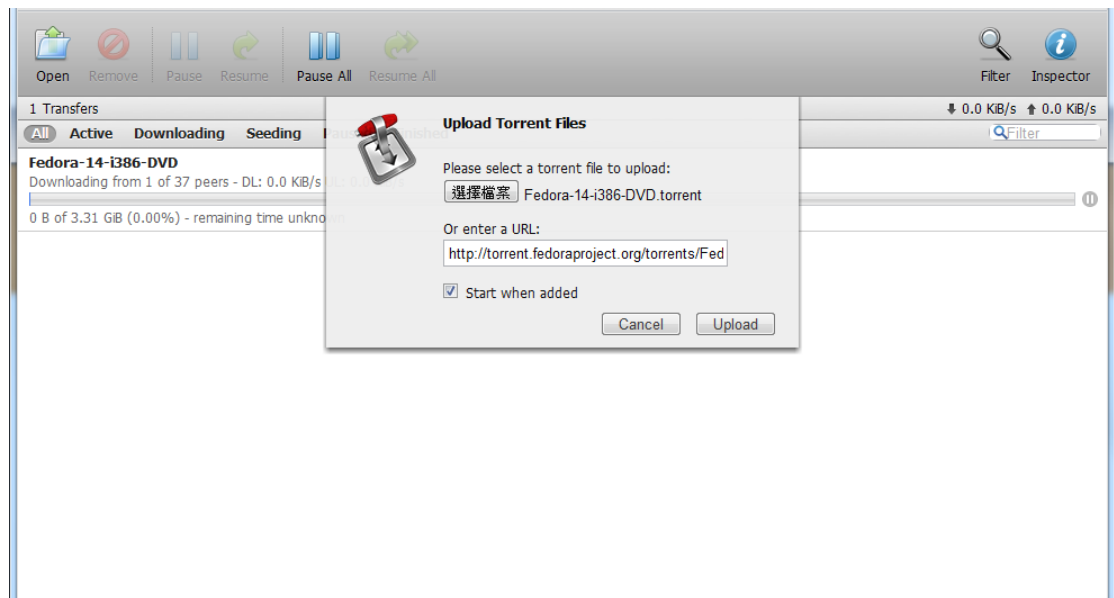
6.4 BT Download

6.4.1 Transmission

BitTorrent is a peer-to-peer file sharing protocol used for distributing large amounts of data. BitTorrent is one of the most common protocols for transferring large files.

And this service we used transmission, more information you can refer:

<http://www.transmissionbt.com/>



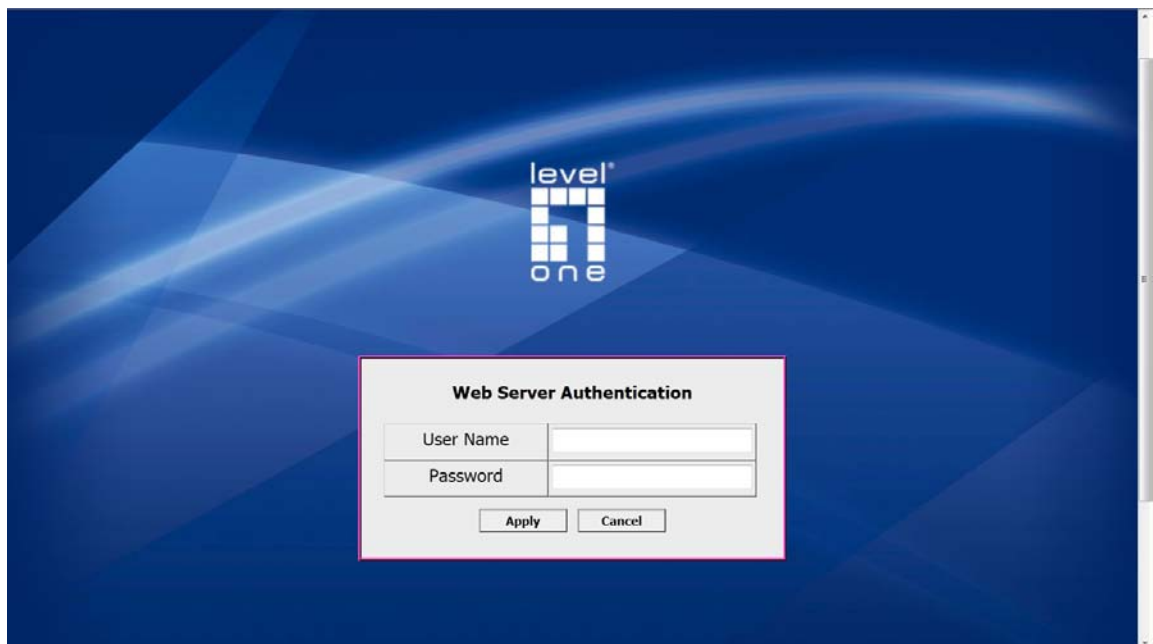
7 System Recovery

7.1 System Recovery Mode

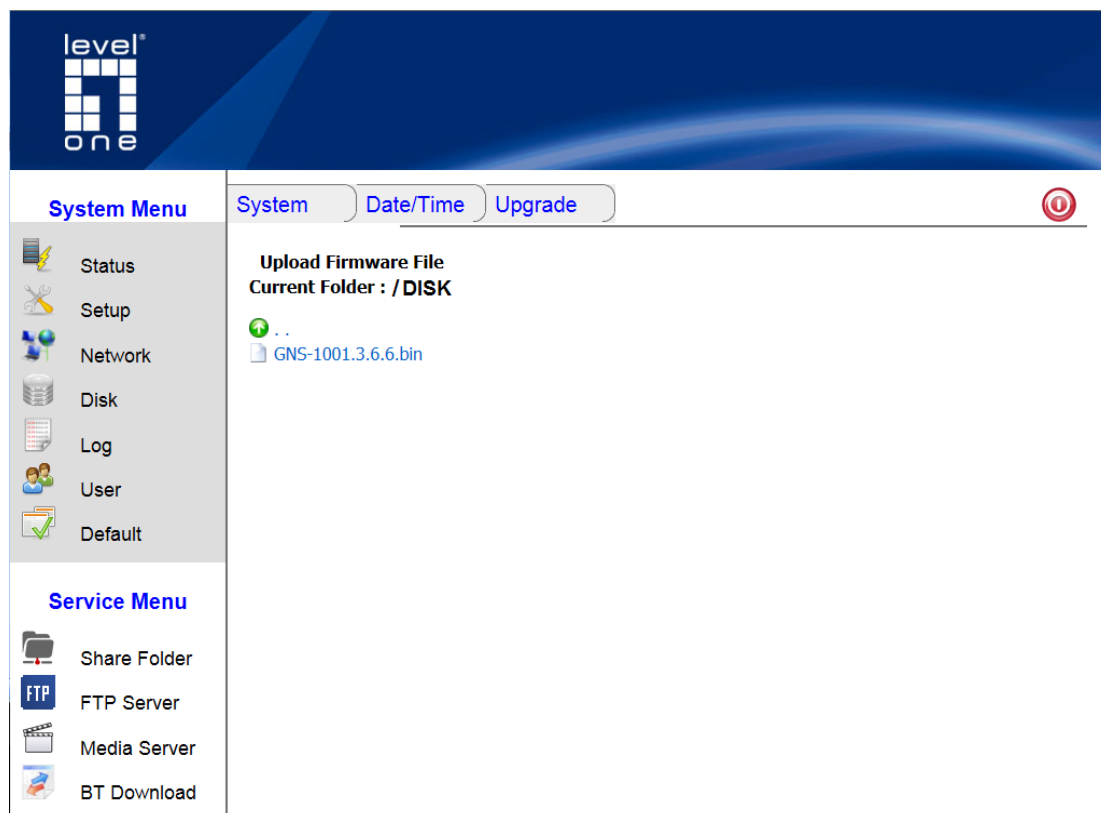
1. Turn off the power.
2. Hold down the reset button and keep it.
3. Then turn on the power and also keep it, until the power led become to red, can release these button.
4. Wait for the system led become to blue, that is the rescue mode.
5. Current, the system's IP is 192.168.1254, so set your pc's IP changed to the same network class, such as 192.168.1.1.2.
6. Then in the browser, enter the <http://192.168.1.254>.
7. And you can enter the rescue mode of the web page.
8. Then follow below steps to restore the system

7.2 System Recovery Step by Step

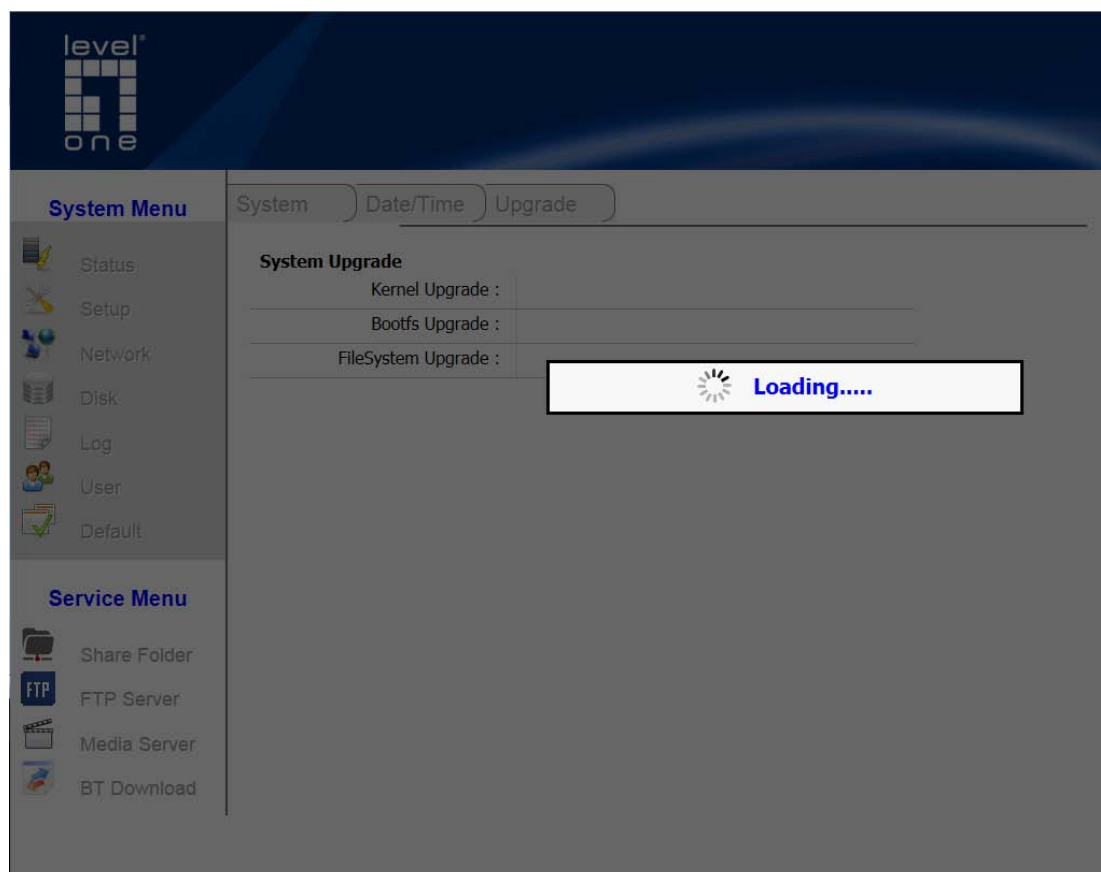
1. Login recovery mode, the default username and password is admin/admin.



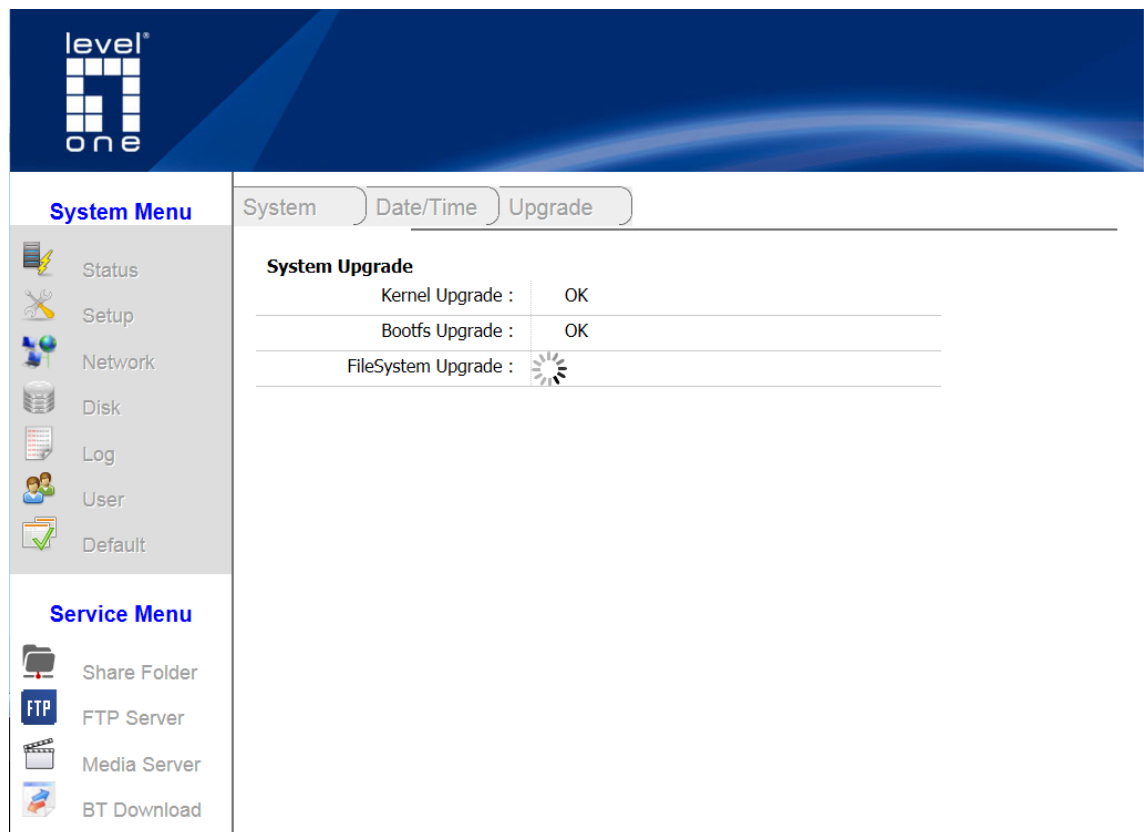
- Copy the new firmware into the usb device, and into upgrade page, then select the firmware bin file.



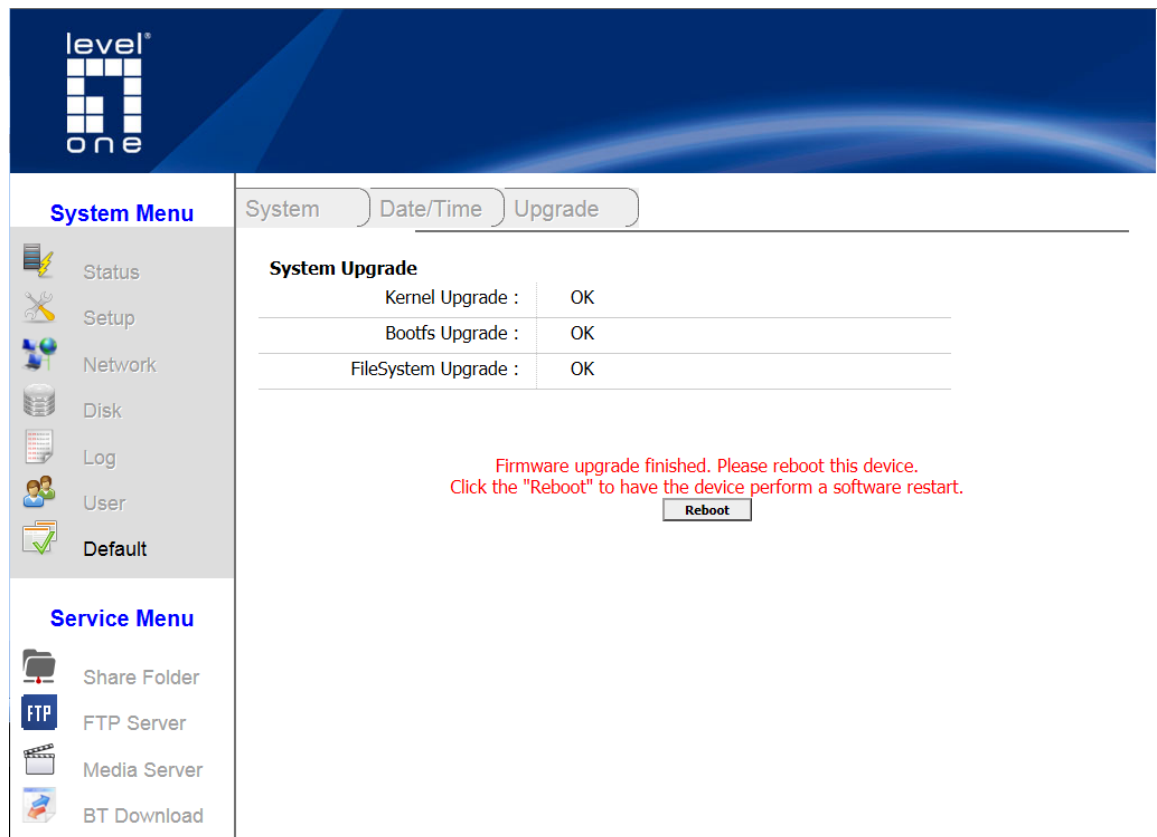
- System load firmware and verify it.



4. Start upgrade firmware.



5. Firmware upgrade finish, and you must click “Reboot” to reboot system.



6. When the system reboot, the new firmware will be available.

level one

System Menu

- Status
- Setup
- Network
- Disk
- Log
- User
- Default

Service Menu

- Share Folder
- FTP Server
- Media Server
- BT Download

System Date/Time Upgrade

System Reboot ...
Reboot this device. Wait a minute before logging into the device again.

21 seconds left until page refresh .

7. The system already to rescued.

level one

System Menu

- Status
- Setup
- Network
- Disk
- Log
- User
- Default

Service Menu

- Share Folder
- FTP Server
- Media Server
- BT Download

Status

System Information

Device Name	GNS-1001
Group Name	WORKGROUP
Date/Time	2011 / 07 / 15 10:2
Display Language	English
Firmware Version	GNS-1001_v3.6.6

Network Information

IP Address	192.168.1.254
MAC Address	02:3F:DD:80:00:00

Service Information

Share Folder	ON
FTP Server	ON
BT Download	ON
UPnP Server	OFF
iTunes Server	OFF