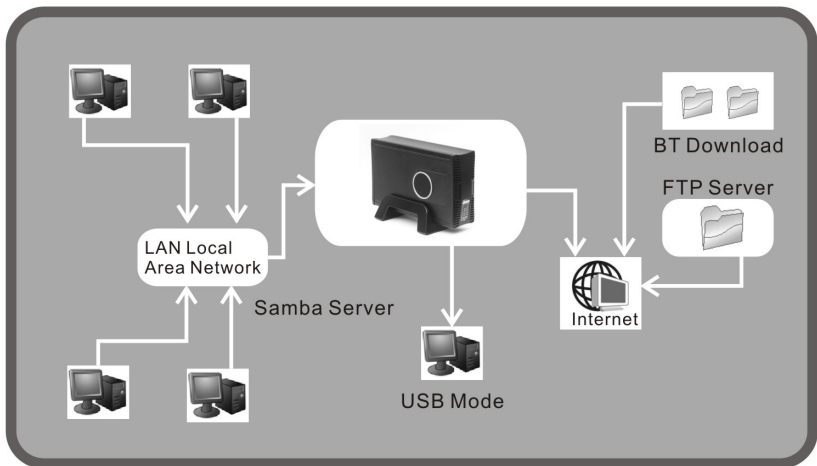


USER MANUAL

3.5" Gigabyte NAS Storage Enclosure

For 3.5" SATA HDD



Model No. : WNSB3AHT

2013@ver1.0

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8. Question and Answer

1. Feature

- * Great for creating a custom Network Attached Storage appliance.
- * Support PPPoE.
- * Under Ethernet environment, it supports one 1000/100/10Mbps Ethernet port.
- * Support Samba server for up to 16 concurrent clients.
- * Support FTP server for up to 16 concurrent users.
- * User management to allow read only or read/write access to folders.
- * Administrative management access via web browser with password security.
- * Support smart phone/Pad visit device with WIFI, easy to share music/photo/video to user.
- * Available for 3.5" SATA HDD
- * Support USB3.0 transfer rates max up to 5Gb/sec
- * LCD panel display internal operating temperature
- * LCD panel display cooling fan speed
- * Overheating alarm pre-set setting temperature(60°C+/-5%)
- * The warning buzzer will emit a continuous beeping sound for 15 seconds if the internal temperature exceeds this level
- * The fan speed change follow the temperature
- * Drive enclosure made of aluminum alloy good for heat dissipation

System require:

WindowsXP/Vista/7/8; Mac OS 10.8 above, Linux (Samba 3.X above) (PC)

Browsers: Explorer 9.0 above(PC)

Smart phone/Pad: Browsers or APP(WIFI)

2. Hardware

2.1 Take a look to the NAS device



The USB2.0 Host port available to connect other USB device, such USB WIFI dongle as U-disk, external enclosure,USB HUB...If using such USB device, please connect the device to the Host USB Port directly or by USB cable,for Udisk, 2.5" external enclosure, they can work without power supply, if for 3.5" or 5.25" external device, will need extra power supply.

Connect the WIFI dongle which attached in product, user could connect the Nas device through WIFI, it is very convenient to share photo/music/video to play.



Giga LAN Port

USB2.0 Host Port

Reset Button

USB3.0 Port

Power Switch

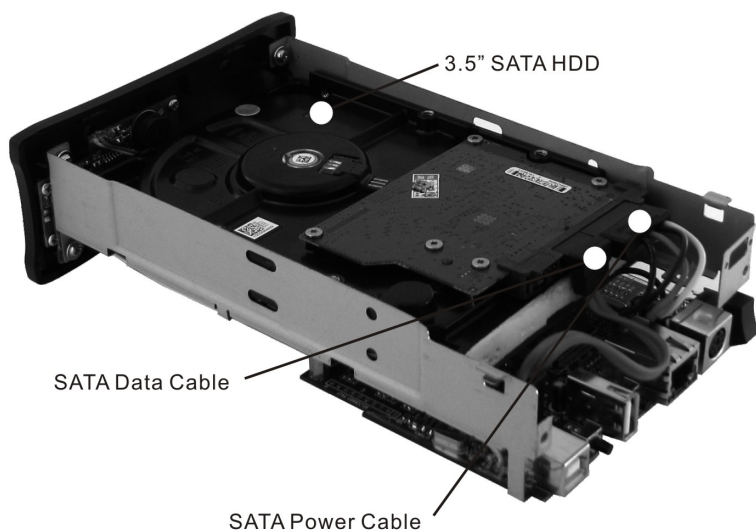
12V DC Jack

Reset Button: Press over 10 seconds restore to original default setting

Note: when use the button to reset device, please turn off the power of the device, and press the button don't release, then turn on the power of the device and keep pressing the button over 10 seconds.

2.2 Install 3.5" SATA HDD in this enclosure

1. Remove the screws from the back-cover
2. Take out the back-cover
3. Slide the metal bracket with PCB out carefully
4. Connet the SATA power cable and data cable with HDD properly
5. Place the SATA HDD on the metal bracket carefully, please don't damage the cable or connector
6. Fix the HDD with screws from mounting hole
7. Slide the metal bracket with HDD back into the aluminum case
8. Fix the rear panel with screws



2.3 Accessories

1. One USB3.0 cable
2. One 1000M LAN cable
3. One Utility Installation CD
4. One user's manual
5. One 12V DC Adapter
6. One WIFI Dongle
7. One screw package

2.4 Temperature controller function

Paste the temperature inductor on the center of the HDD to activate temperature display. In order to ensure HDD work fine and prevent data loss, the operating temperature range is pre-set as $60^{\circ}\text{C} \pm 5\%$. The warning buzzer will emit a continuous beeping sound for 15 seconds if the internal temperature exceeds this level. When this occurs, please have your HDD to cool down before continuing operation.

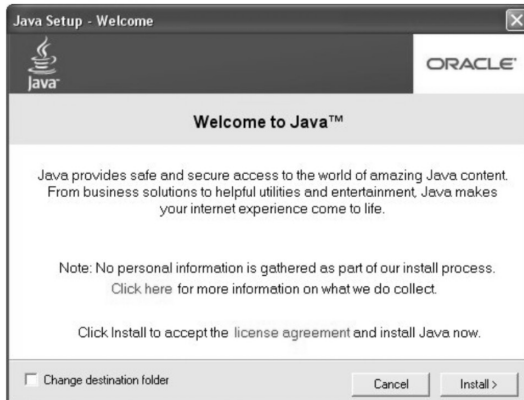
3. System install and using

3.1 Quick setup wizard

1. Please make sure your computer supports the JAVA environment. If not, you can go to <http://java.com> to download and install the JAVA software.



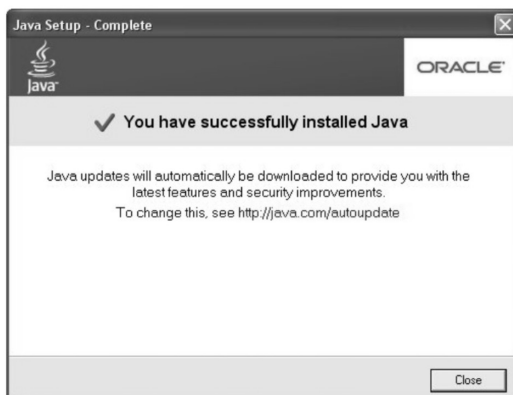
2. Download free java drive to desktop, double click it to run file



3. Click [Install] to continue

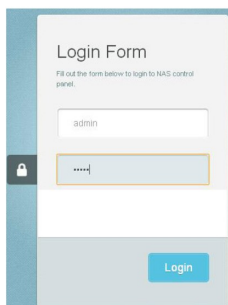


4. Click [Close] to finish installation



5. Insert the included CD Driver, Open the Server Search Tool of utility program [**Discovernas**] and click Search Next to search the NAS from your network environment, and then click [Connect] into login screen.

6. Please enter default username: **admin** and password: **12345**



The original password **12345** is default password, suggest manager to modify the password.

3.2 Parameter setting

3.2.1 Hard disk drive utility

Before you install the hard disk drive, please check the detail as below :

- A. The device could support FAT/NTFS style, if your disk drive has be formatted, you could install it and use it directly.
- B. If it is a new disk drive, you must to format it at first. please follow the step:
[Tool]--[Default setting]--[Format disk drive]
- C. And you could install the new disk drive into device, and connect the device with USB cable to PC, and format the disk drive, then connect it to network.




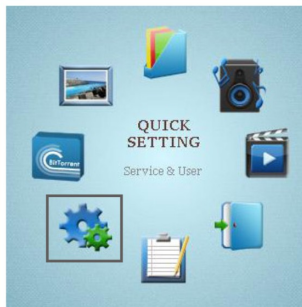
Warning: Format hard disk drive will delete all data in disk, so please check and backup all data before you format it.


When finish format, there will display a window [Format disk successfully!]



3.2.2 Quick setting

Click  icon then you could enter quick setting window. use this option the manager can quick to create user, and create share folder, could shard such as Music/Photo/Video and other folder to all user. if want to set advanced setting, please enter [Advanced setting]



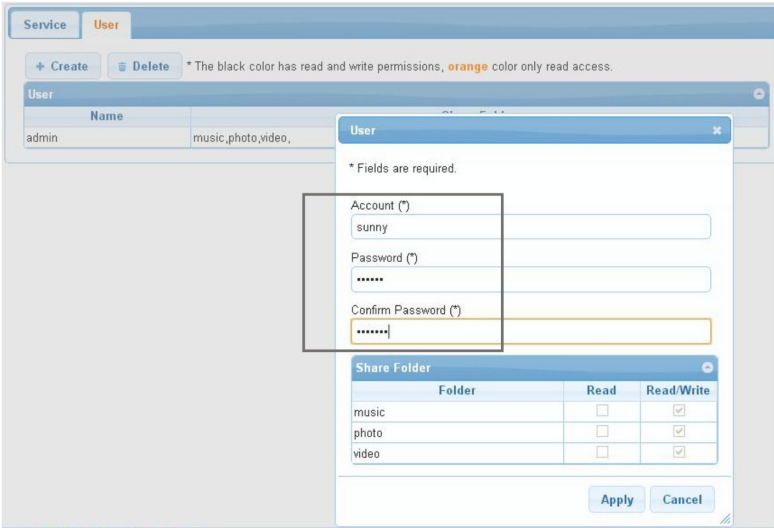
Click this  icon, the guide will jump a window, you could select Samba/ WebDAV/FTP/UPNP and other service, just slide to [ON] position.



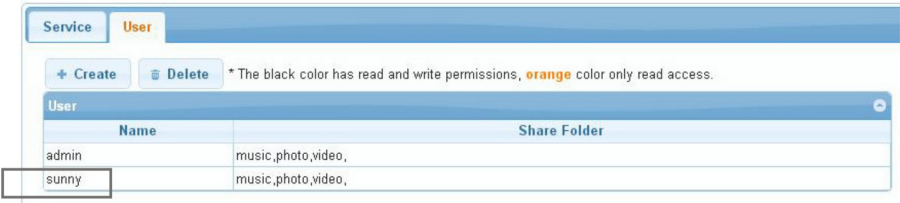
Click [User], manager could add or delete user. the [admin] is default existing account, can't be deleted.




Click[Create], enter the new user account and password, then click ok to add one user.

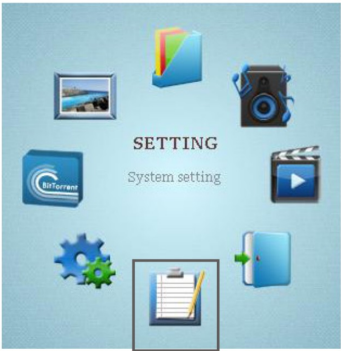


When finish, the new user account will display in the account list.



3.3 System advanced setting

Back up to the main page, click  icon to enter advanced setting.



3.3.1 System information

Enter the advanced setting window, there will disappear the name of the device, and IP/Mac address information.



System Information

Host Name

Configure

Item	Value
Host Name	nas1203

Network Interface

Configure

Item	Value
Mode	dhcp
IP address	192.168.1.56
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS Server 1	202.96.128.96
DNS Server 2	202.96.134.33

Remote Control

Configure

Item	Value
Enable	no
Remote UID	AA-BB-55-22-33-CE
PIN	24069

WiFi Setting

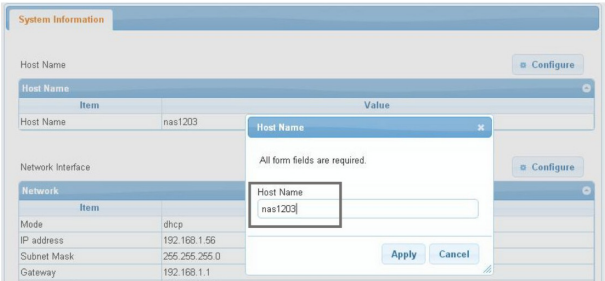
Configure

Item	Value
SSID	IM1203AP-27587
WiFi Password	

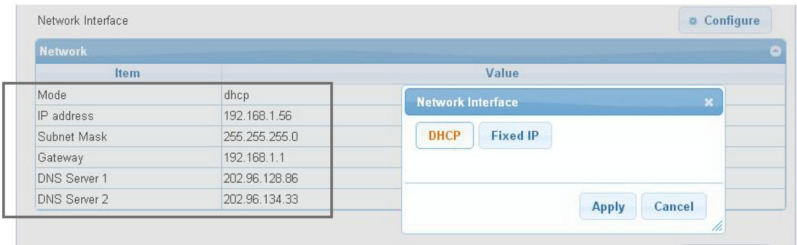
PPPOE State

Configure

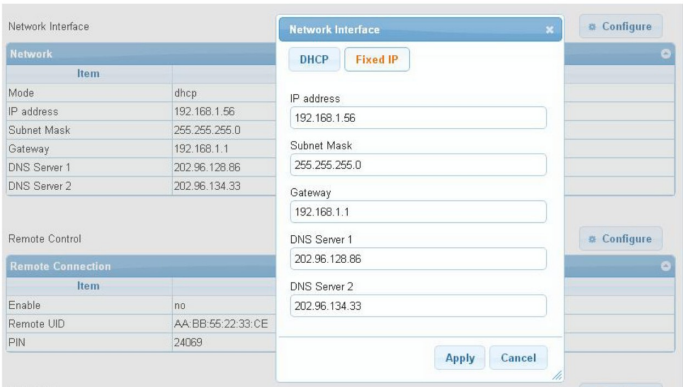
If you want to change the name of the device, click [Host name], then click [Configure], so you can modify the name that you want.



Click [Network] enter the window, it will disappear all the information. If you use dynamic IP, the router will automatically sign one IP address for you.



If you use static IP address, please select [Fixed IP], then fill the parameter in it.



If you want to use remote connection, please select [Remote connection]--[Configure], and tap [Enable], then system will appear the MAC address.



When finish, there will appear [Yes] and MAC address.

Remote		Value
Item		
Enable	yes	
Remote UID	AA:BB:55:22:33:CE	
PIN	24069	

[PPOE Setting]

If you want to use internet connection function, such as BT download, please fill your PPOE account information. click [Setting] then fill the PPOE account and password.



3.3.2 System service

In this option, you could select the different function, slide to [ON] to open and slide to [OFF] to close.



3.3.3 Create user account

Manager could create many user account, set the account name and password for different user. and manager could set the different user access with only read or read/write.

Click [Create] and key in the user account and password, then create one new user account.

Name	Access
admin	music.photo.video
sunny	music.photo.video

Folder	Read	Read/Write
music	<input type="checkbox"/>	<input checked="" type="checkbox"/>
photo	<input type="checkbox"/>	<input checked="" type="checkbox"/>
video	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Add new user account

Add new user password

Repeat confirm password

Choose the read or read-write authority of each folder and authorized to the new user. If only choose the read, that the user only can read the material of this folder and cannot write in.

3.3.4 Create share folder

Click [Share folder], the manager could create or delete share folder, all the the folder will share to all users.

Click [Create] then fill in the share folder name such as [Engineer], then tap [ok], so one new share folder [Engineer] has created.

Folder Name
TestReport
engineer
music
photo
video

Folder name (*)
engineer

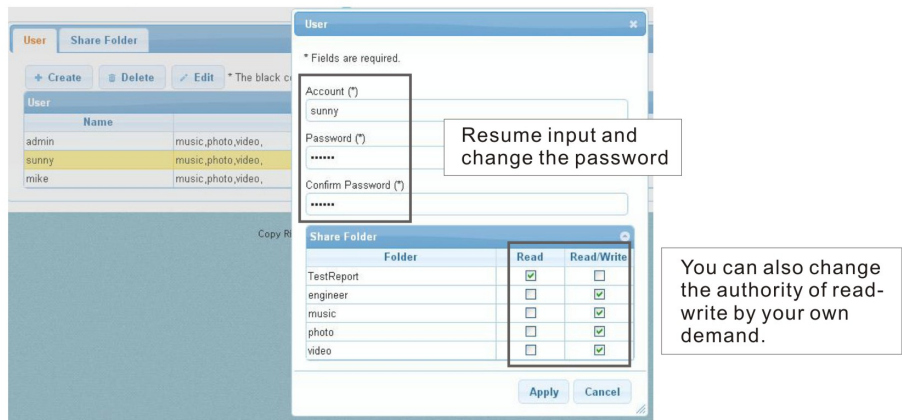
Manager [admin] could create many share folders or delete the share folder. but the default existing share folder [Music]/[Photo]/[Video] can not be delete.

When finish, the window will appear all user account and the share folder for different user. the orange color folder means that the user only access with read, and black color folder means the user can access with read/write.



If the manager want to modify the user's password or modify the access with read only or read/write, please select the user account, then click [Edit]. in the following window, manager could modify password or read only or read/write for different share folder.

Such the picture as below, manager modify all share folder just as [Read] only for sunny.



When finish it, in window under user, we could see all the share folder for sunny change to orange color, it means sunny just could access with read, can not write in them.


Manager could set the different user with different access with read only or read/write. so it could keep the security for different user.



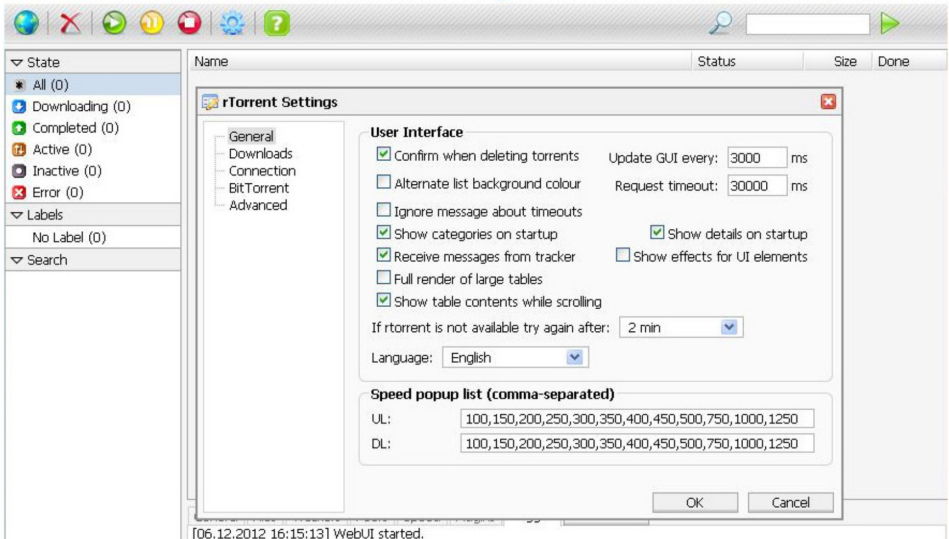
3.3.5 BT Download


The device support BT download function, click  icon enter the window to set.

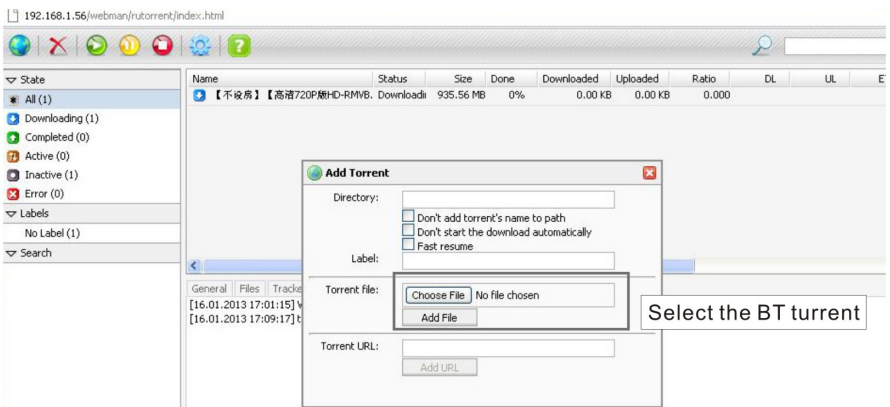


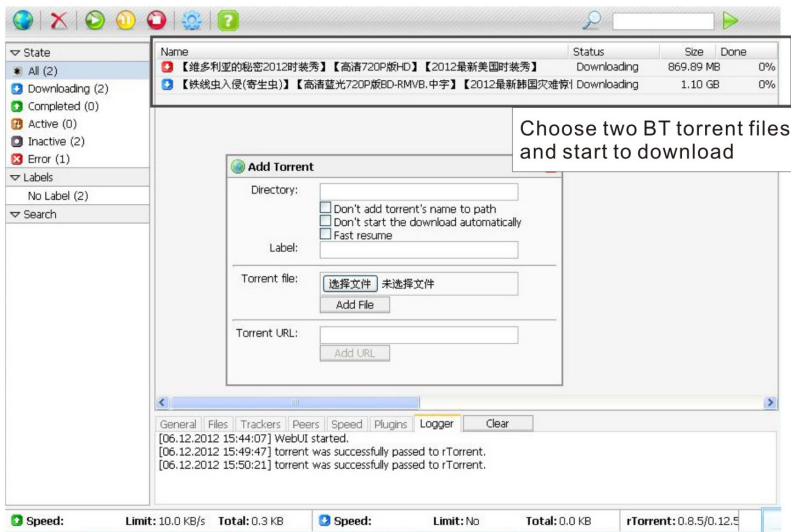
Click  icon to set the parameter of BT download.
 PS: If user don not know the parameter setting very well, don not to modify the parameter, just keep the default setting.






Click  icon, tap [Choose file] to select the BT torrent, then click [Add file], user could add many torrent one time, when finish, click [Start], device will download automatically.






3.3.6 Check the information of disk drive

Click  icon, system will appear all the information of the disk drive, include disk drive capacity, spare capacity and temperature, using time.... and so on.




3.3.7 Tools

3.3.7.1 Update Firmware

When need to update FW, click  icon, select [Firmware Update] and select the new FW file, click [Update], device will update FW automatically. when finish it, the device will restart.



3.3.7.2 Remote shutdown system

Manager could remote off system, click  icon and select [**Power**], select [**Shutdown**], the device will close system. but the device will keep power-on status and disk drive will keep running.

When shutdown system, all users can not use the device.



3.3.7.3 Restore Default

Click [Restore default], the device will reset to the factory default setting, all the setting will be delete. but all the data in disk drive will keep.



If you are using a new disk drive, you need to format it at first time. click [Format the disk drive], it will format the disk drive.

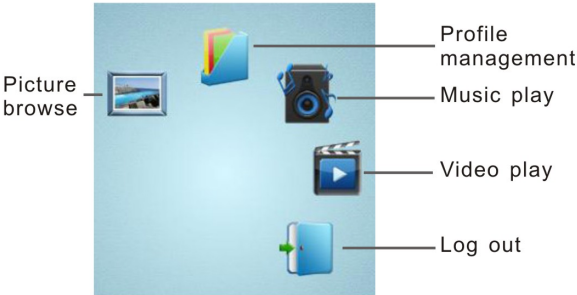
if it is a old disk drive that has data in it, it need not to format again, just install it in device and start to use.

Warning: format disk drive will delete all data on disk.



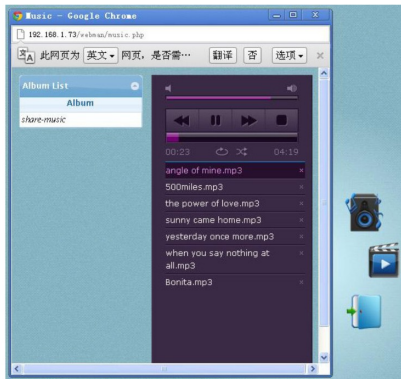
4. User log in and use device

User could login with owner account and password (provided by manager) and use device. the login step same as manager[User]. click [discovernas] software, key in account and password, then can access device and use it.

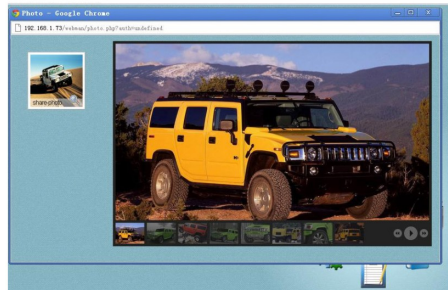


User enter main page, will find the share folders and [Music]/[Photo]/[Video] icon, user could play it directly.

If user want to upload music/photo/video, user could enter file manager and upload music/photo/video to share [Music]/[Photo]/[Video], all user could see it and play it.



Play music




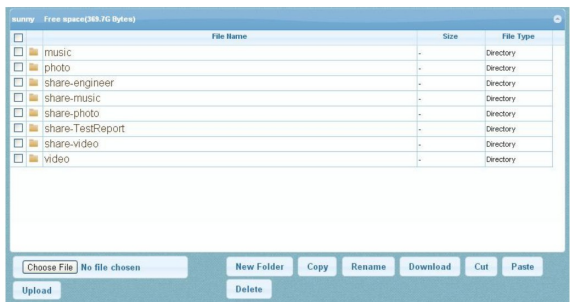
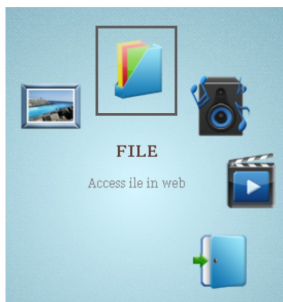
Browse photo




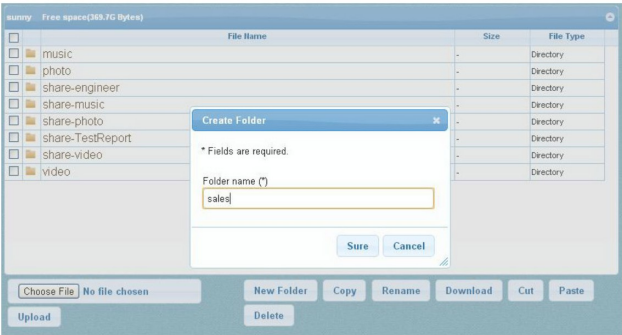
Play Video

User could create folder to manage his data files for himself, these folder and data just for himself and will not share to other users. it keep the security for data with different user.

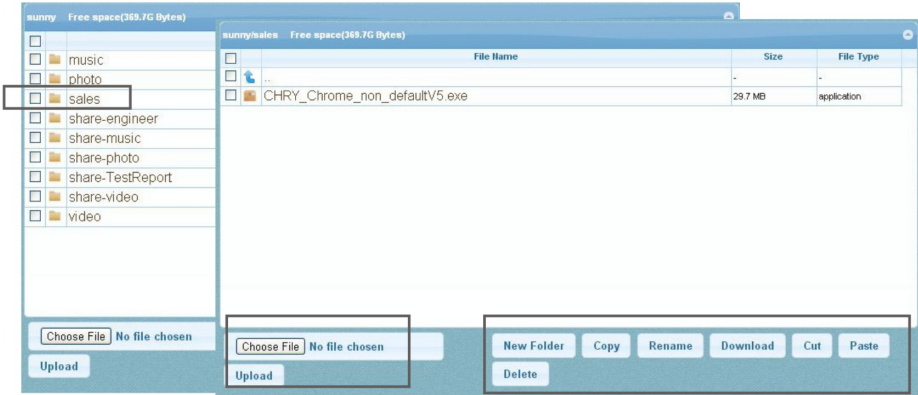
Tap the  icon then user will enter the manager window.



User can create new folder for himself, click  icon enter window, then click [New folder], key in the folder name, the folder has created. this folder just for user himself to use, not share for other users.



User want to upload files to folder, just select folder such as [Sales] , select the file, then click [Upload] , the files will upload in the folder.
And user can use copy/download/cut/past/rename such actions to manage your data files.

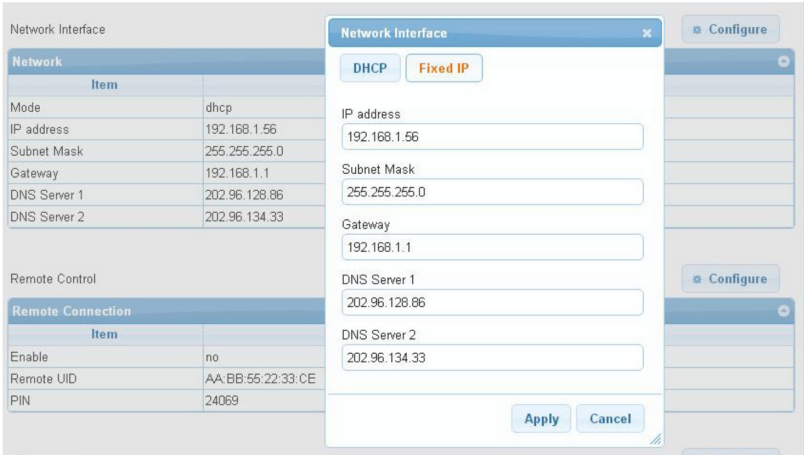


User if want to share his files to other users, he must enter the share folder by manager created, then create new folder or upload files directly in it, so the other users could share the files.
The files must under the directory in share folder which created by manager. then the other users could share this files.

5. User map a network drive

Follow the setting step as below, user could map a network drive in [My Computer] window, so it become very easy to use as a local disk.

If want to map a mirror-disk, we need to set the IP address to a static IP. enter [Advanced setting], check the system information, user could see the dynastic IP information, then click [Configure], enter the window, select [Fixed IP], so the dynamic IP will change to static IP.

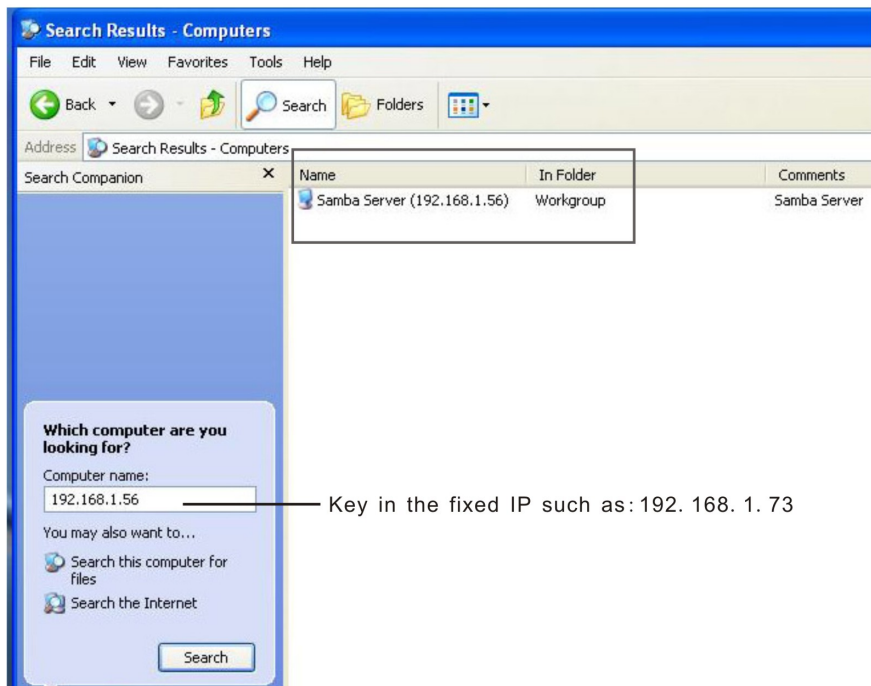


System will require to reboot, please wait 60 seconds.

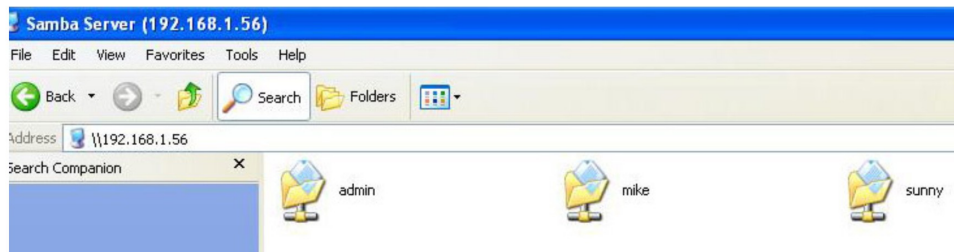


Note: this 2 steps above must be set by manager.

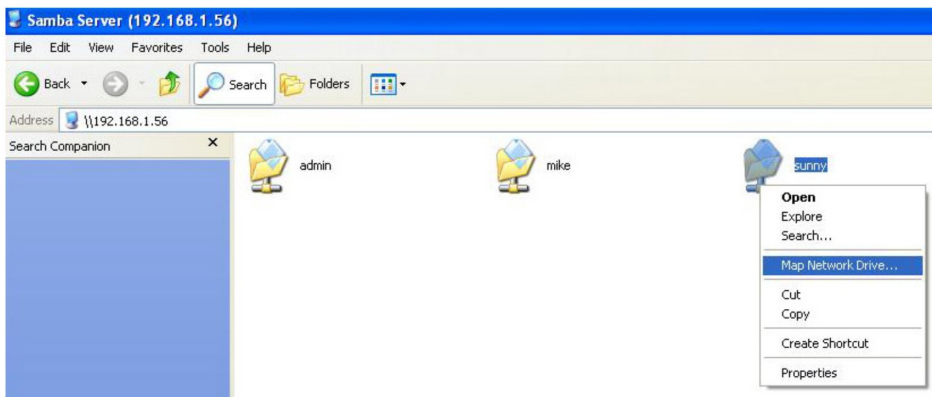
1. Enter PC [Network], click [Search], in the searching window, key in the static IP, such as:192.168.1.56



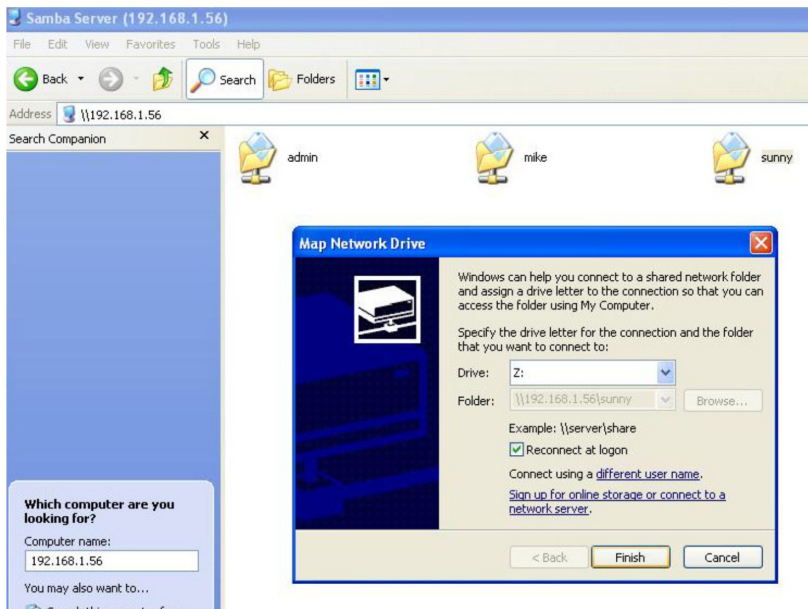
2. Double click this icon [Samba server], enter the window, user could see all user.



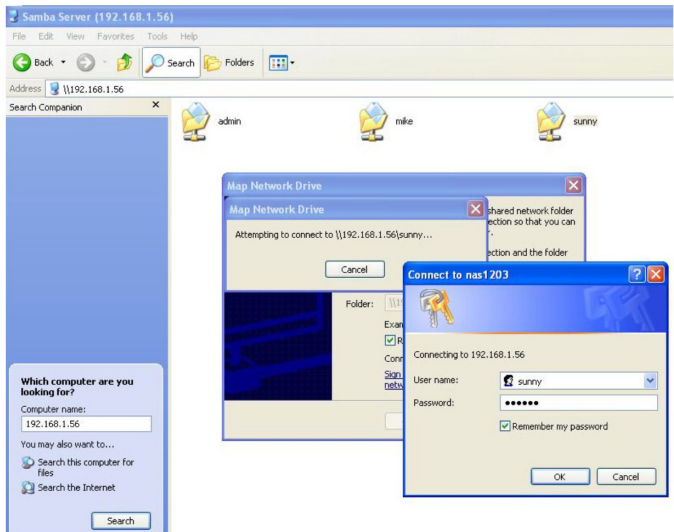
3. User find the icon of himself such as [Sunny], then right click, select [Map the network disk drive]



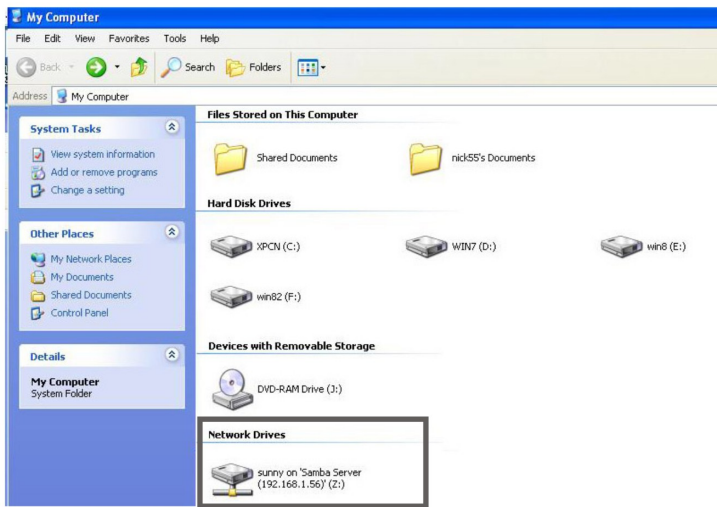
4. In the new windows, it will appear the map disk drive [Z:], click [Finish]



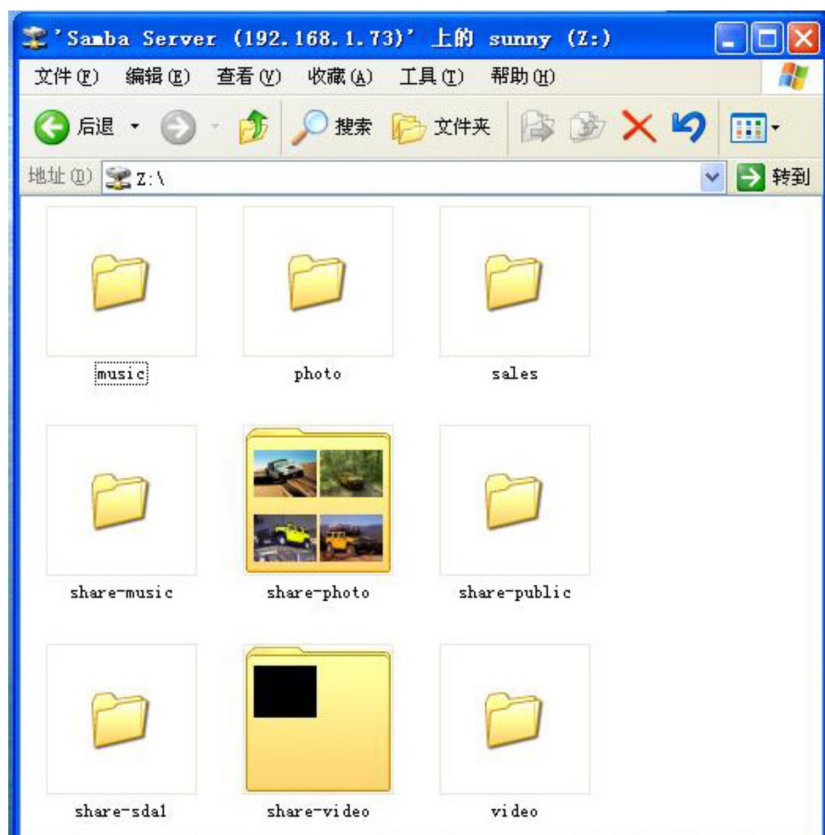
5. System will start to connect NAS device, key in user name such as [Sunny] and password.



6. When finish, in [My Computer], user will see the disk drive [Samba Server]

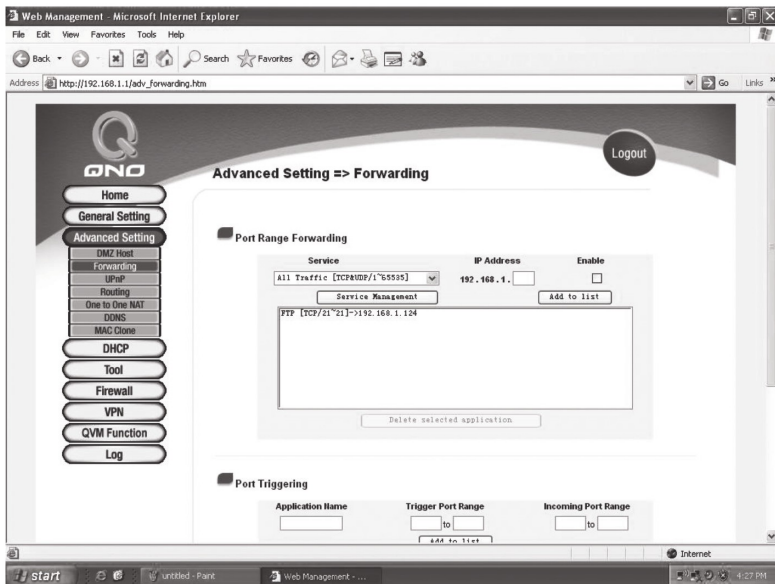


7. Enter this disk drive, user could find all share folder and data and folder created by himself.



6. FTP setting in router

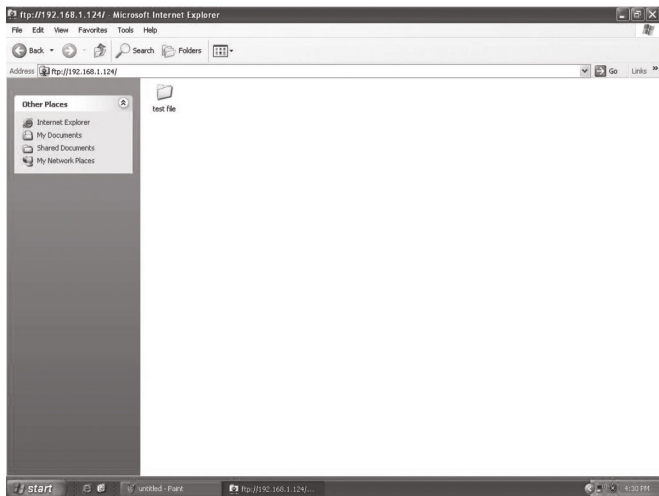
Forwarding: If you want to use FTP server and remote setup, you have to set Static IP address.(eg: 192.168.1.124) and enter your NAS static IP to Router forwarding.



Now test the local FTP server: ftp://192.168.1.124, enter the user name and password, click [Log on]

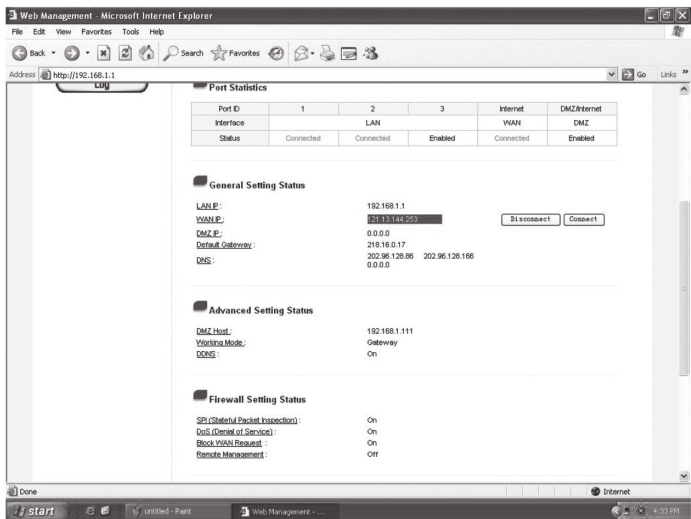


The shared folder appear, FTP function test OK.



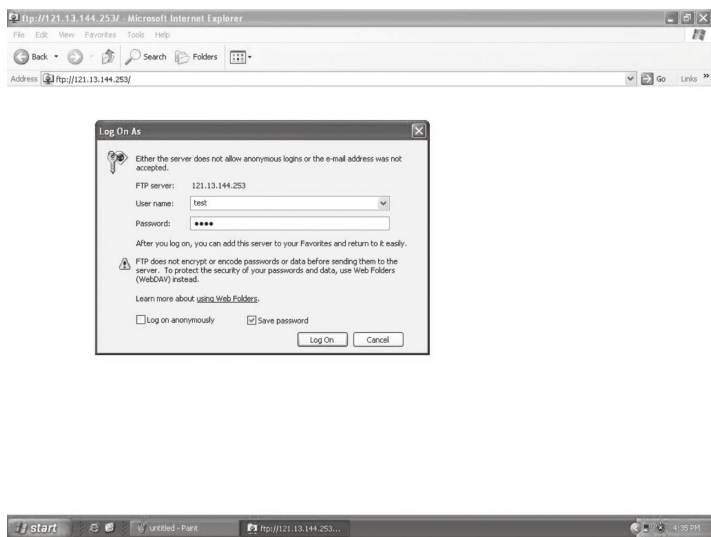
Test the FTP server via internet.

If you use WAN IP is static such as (121.13.144.253)

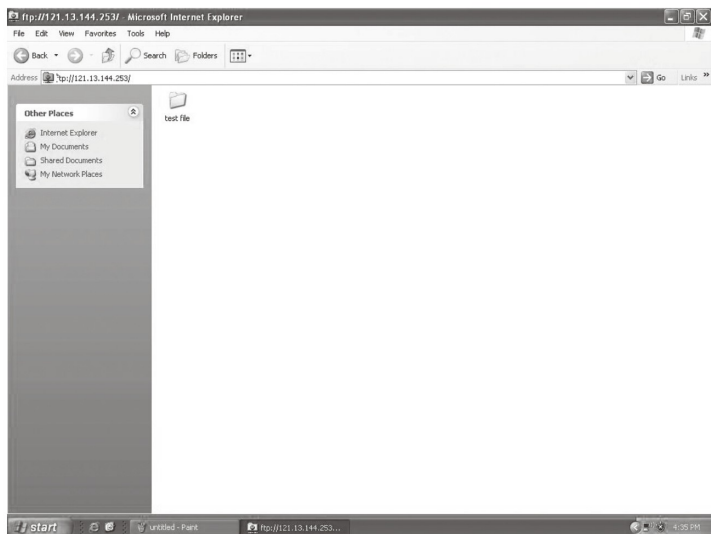


Please enter [FTP://121.13.144.253] to visit FTP sever

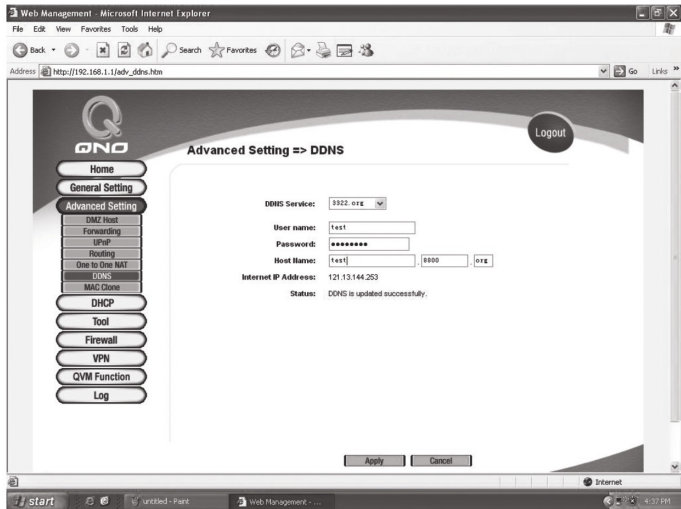
Enter the user name and password, click[Log on]



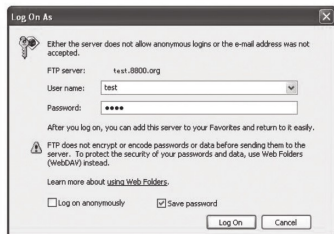
The shared folder appear, FTP function test ok



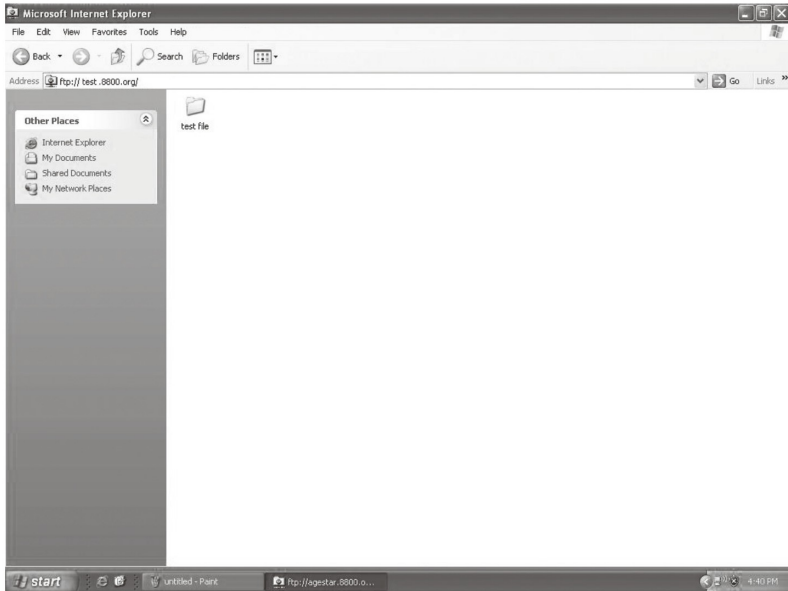
If WAN IP you are using is dynamic, you need to use free of charge DDNS to relate your WAN IP. Please check with the router manufacture on DDNS howto set.



Now you can visit FTP server using the Domain name and remotely set your NAS DNNS: [ftp://test.8800.org] (only for example), enter user name and password



The shared folder appear, FTP function is ok



You can also remotely set your NAS product. For further setup detail, please inquire your network engineer for help.

7. Smart phone/Pad Connect the Nas device over WIFI

This Nas device provide another attach function, use the WIFI dongle which attached in product, user could connect the Nas device through WIFI, it is very convenient to share photo/music/video to play.

A. Connect Nas device over WIFI (For Android)

1. Plug the WIFI dongle in USB port, power on the device, turn on your smart phone or Pad's WIFI, the **[IM1203xxxx]** WIFI will be detected and display, then connect it.
2. Open a web browser, key in **192.168.168.1**
3. The log in window will display and key in account **[admin]** and password **[12345]**

Key in account and password



Enter the main page



Music

Tap the music icon and select music and play



Photo

Tap the photo icon and browse photo




Video

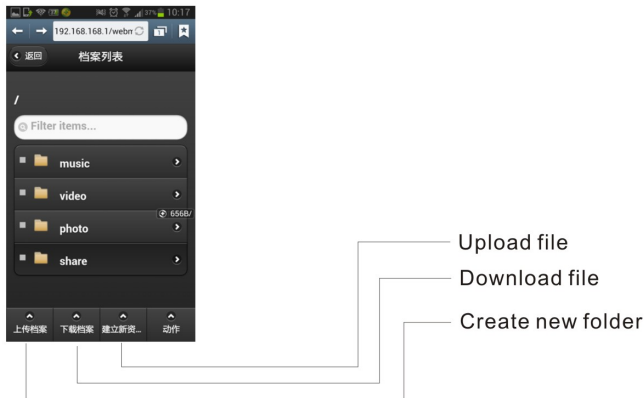
Tap the video icon and select and play video




If the movie can't play normally, it due to the player software, please download other player such as **[Moboplayer]** and try it again.

File Manager

Tap  icon, In this window, you can manage your file, create new folder, upload or download files to the NAS device from your mobile smart phone/pad..



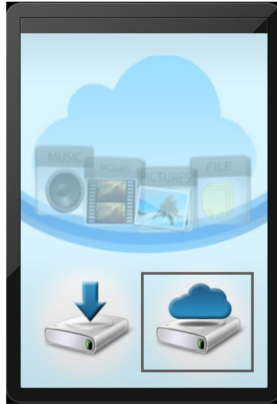
WIFI Setting


Tap  icon enter WIFI setting window, you can set your SSID and WIFI password, the SSID you enter will showing on the wireless network list



B. Connect Nas device over WIFI (For iPhone/iPad)

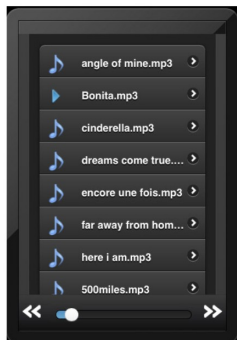
If you use iPhone or iPad, please enter Appstore to download [**Mcloud**] driver, and install it. when finish, run the driver, system will contact the WIFI device automatically.



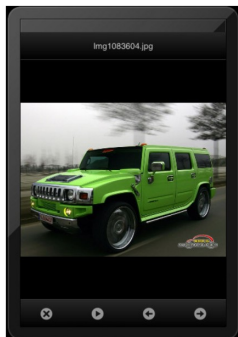
Tap  icon enter login window, key in user account [**admin**] and password [**12345**]



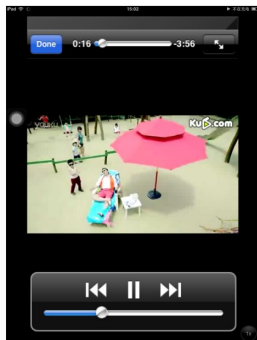
Select Music or photo or Video , it will start to play the files.




Music

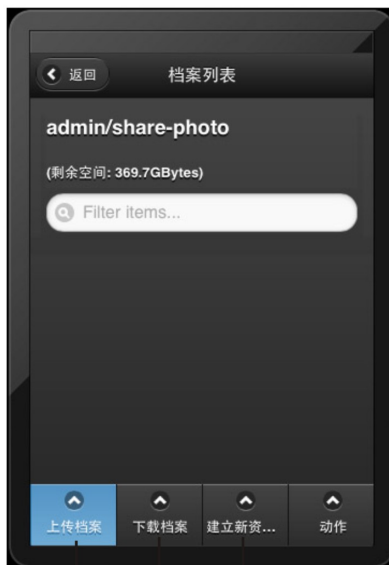


Photo



Movie

To upload or download files, tap  icon to enter files manager window, enter corresponding folder such as share-photo, then to upload or download files.



Upload file ————
Download file ————
Create new folder ————

9. Question and answer

Q: Why can not run [Discovernas] drive?

A: Please make sure your computer supports the JAVA environment. If not, you can go to <http://java.com> to download and install the JAVA software.

Q: Why can not detect the NAS device in network with [Discovernas] utility?

A: Please check the network and the NAS device has connect correct, then turn on the power of the NAS device, press the [Reset] button over 10 seconds to restart the device, then use [Ddiscovernas] to search again

Q: How to search and enter setting when use static IP?

A: When use static IP, the NAS device can not auto detect and add the IP address to network. You should connect the device to network and use [Discovernas] to search the device, the default IP address is [192.168.1.148], then enter the [Advanced setting] -[IP Setting] window, enter the IP value then you can to set.

Q: How to set the NAS device as a FTP server? And how to set the IP address?

A: If you want to use this NAS device as a FTP server and visit it through the network, you must to set the IP address to static IP address, so the WAN IP can mirror with the LAN IP address, then you can visit it through the network.

Q: My router connect to the NAS device and assign IP address, the SMB is ok but visit internal FTP is slowly, why?

A: Usually in inside network we need not to use FTP to visit it, some high-grade router is fast.

Q: I have install my disk drive in device and could find it but can not create user and share folder, why?

A: The device is ok, but the disk drive need to format, please enter [Advanced setting] to format the disk drive

Q: Shall I must connect Lan cable to device when use smart phone/pad to play music/video/photo?

A: No, if you just want to use smart phone/pad to play music/video/photo, it not need to connect Lan cable to Nas device.

Q: Why sometimes the BT download speed is very slowly?

A: This is involved the reasons in many aspects: the local network speed, the setting of the windows fire-wall and the quantity of the seed.....we propose to modify the TCP& UDP port number to 10000~65535, and check the setting above.

Q: Why I can play the music/photo/video directly, but I can not upload music/photo/video?

A: This is because manager just set the [Read] to user, please ask manager to change [Read/Write] for user.

Q: Why the other users can not see and use my folder and data?

A: The user log in system and create folder is just for himself, the other users can not see and use the data. if user want to share his data to other users, he must built his folder under /sda1, or create the folder and data under public share folder.

Q: Why I can not open the file unless photo/music/video/pdf directly in share folder?

A: The system can not open files unless music/photo/video/pdf directly, please download the files to local disk drive. if you want to use the files directly in nas device, please map a network disk drive in local window. the detail please refer [Map a network disk drive].

Q: Can connect both USB and Rj45 at the same time? which control first?

A: Can connect both USB and Rj45 at the same time, USB will control first. it just could use as USB device.

Q: What are the limitation of Linux base NAS?

A: Without special limitation for Linux OS.

Q: Does the NAS device support iOS?

A: Yes, but if the disk drive has install iOS, you need to format it again then install in device to use it.

Q: Can the Nas be access using a internet browser?

A: Yes, the Nas can be accessed using internet browser.

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