USER MANUAL

USB over IP ShareServer

Model : NH-204 10/100Mbps LAN to USB2.0 Host





FCC COMPLIANCE STATEMENTS

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to equipment off and on the user is encouraged to try to correct the interference by one or more of the following measures :

Reorient or relocate the receiving antenna.

Increase the Distance between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

TRADEMARKS

MS-DOS, Windows, Windows 98/NT/2000/ME/XP/Vista are trademarks of Microsoft Corporation. Macintosh and Mac are trademarks of Apple Computer All of the third-party brands and names are the property of their respective owners.

Safety Warning

Please read this user manual carefully before using this product.

- 1. Do not use power adapter with different voltage rating. It will damage or burn the USB server.
- 2. Keep this equipment away from humidity or fire or magnet.
- 3. Do not drop or shake the device.
- 4. Do not put any weight on this device.
- 5. Do not use any alcohol, thinner or benzene to clean this device.

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Introduction

The revolutionary NH-204 USB Server utilizes technology that streamlines and enhances functionalities between USB devices and multiple PCs. Current solutions from other companies provide minimum functionalities at high costs. They use significant amounts of resources and effort to achieve the required features, whereas the NH-204 USB Server utilizes significantly less resources for more features. Most solutions allow printer-only peripheral devices. However, NH-204 USB Server allows you to use a multifunction combo device, such as a printer-scanner or printer-fax all-in-one! Another added benefit is that you can connect multiple printers/scanners/faxes to the NH-204 USB Server through a USB Hub. These are just some of the features that make our product one of the standards today. The USB Server application provides a user friendly interface between you and the NH-204 USB Server, enabling you to monitor, manage and use the convenient and powerful functions provided by NH-204 USB Server.

Main Feature

Sharing USB Multi-function printer over a network Sharing External USB Hard drive over a network Sharing USB Pen drive over a network Sharing USB memory card reader Sharing USB printer over a network Sharing USB scanner over a network

Note : Some USB devices require a direct connection for optimum performance.

Product Overview

1. Product Contents

USB Server
SV/2A Power Adapter
LAN Cable
Driver CD
QIG

2. Minimum System Requirements

Windows® XP x86 / XP 64 bit Windows® Vista X86 / Vista 64bit Windows® 2000

233 MHz Pentium® II or above64 MB RAM (128 MB recommended)CD-ROM drive for installation

3. Take a look at the NH-204



Starting USB Server

1. Install USB Server Program

For Windows 2000 system , please install the "USBServer_WIN2K_2063.EXE".



For Windows XP/VISTA , please install "**USBServer_WINXP_Vista_3010.EXE**" file from CD and double click the setup exe.



USEServer_WINXP_Vista_3010.E... Win32 Cabinet Self-Extractor Microsoft Corporation

Then the Installation Shield Wizard will start automatically. Please follow the instructions of the wizard to complete the installation process.

Note : Please reboot the system as requested by the installer when the install process ends, otherwise the software might not work properly.

USB Server - InstallShield \	Wizard
	 InstallShield Wizard Complete The InstallShield Wizard has successfully installed USB Server. Before you can use the program, you must restart your computer. Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
	K Back Finish Cancel

2. Start USB Server Program

Step1. To start using the USB Server , please double click the shortcut icon of the USB Server on the Desktop. It will bring up the main dialog.



Step2. Connect the power adapter and network cable to the UH-204. You will see the USB Server in the main dialog box. If find nothing, please click the **Search** to link again.

N. I	JSBSe	rver			
File	View	Help			
		JSB Server-334455	(10.11.42.84)		
2					
		Search		Config	

3. Connecting USB devices

Step1. Plug the USB device into the NH-204. Then the device will be found by the USB Server program.



Step2. Choose one of the devices and then click the **Connect** to link the device. Or you can select a device and double click to link it.

N USBServer	
File View Help	
USB Server-334455 (10.11.42.84) I. USB server-334455 (10.11.42.84) I. USB est Technology USB Mass Storage I Hewlett-Packard np LaserJet 1010 Camera SanDisk Corporation Cruzer Micro	
Search 2. Connect	\mathbf{A}

Step3. After linking the device, the green icon indicator will change to orange. And the system button will change to **Disconnect**.



Step4. Then click "**My computer**" from the desktop. You could find your USB device, and now you can start to use it.



4. Disconnecting the USB devices

Choose one of the mounted devices, and then click the **Disconnect** bottom. Or you can select a device and double click for disconnecting it.

5. Request Disconnect

If you would like to use the device while it is in use (mounted by someone else), you can send a "Request Disconnect" message to the user who has mounted that device.

N USBServer	📓 USBServer
File View Help	File View Help
USB Server-FFFEAC (10.11.42.78) Hewlett-Packard hp LaserJet 1010 Kingston Dat: Details Request Disconnect	 USB Server-FFFEAC (10.11.42.78) Hewlett-Packard hp LaserJet 1010 Kingston DataTraveler 2.0
	Request Disconnect "james" has requested you to disconnect "Kingston DataTraveler 2.0". Would you like to disconnect ? Yes No
Search Connect	Search Disconnect

6. Configure NH204 as a networked USB printer server

Please install the printer wizard to automatically connect or disconnect the printer while sharing the network printer.

Step1. Find the "Network Printer Wizard" from the CD, and double click to install.

Step2. The Installer will start to run.





Step3. Select the installation language and click the OK.



Step4. Click on **Finish** to complete the installation.

Network Printer Wizard	- InstallShield Wizard
	InstallShield Wizard Completed.
	The wizard was interrupted before Network Printer Wizard could be completely installed.
	The system has not been modified. To install this program at a later time, run the installation again. Click Finish to exit the wizard.
	< <u>Back</u> Finish Cancel

Step5. After installation, there will be a shortcut on the desktop. And double click it to set up your printer.



Step6. Click the Next to continue.



Step7. From the list, please select the printer you would like to setup and then click the **Next**.

Browse for Netwo Select the print	ork Printer er you want to use from the list below.	
Shared printer:		
Canon MF3110-00	0015	
Samsung ML-2010	-000001	
Samading Sex 130		
Printer Informatio	n	
Printer Informatio	n Samsung SCX-4500 Series	
Printer Information Description: Location:	n Samsung SCX-4500 Series LPR Server	

Step8. On this dialog, please select the printer driver from the list. And then click the Next to complete the installation.

The manufacturer and n	odel detemine which printer software to use.	-
Samsung SCX-4 The Network Pri select from the installation disk.	00 Series-501201 Iter Wizard cannot find a driver for this printer. Manu st, or click 'Have Disk' if your printer came with an	ally
Manufacturer	Model	-
Texas Instruments Toshiba Unisys Varityper Wang Wipro ePeripherals Xante Xerox	Samsung ML-1660 PCL6 Samsung ML-2050 PCL6 Samsung ML-2850 PCL6 Samsung ML-3550N PCL6 Samsung ML-3550N PCL6 Samsung ML-4600 PCL6 Samsung ML-5000A/QwikLaser 5000A Samsung ML-5000A/QwikLaser 5000A Samsung ML-5100A/QL-5100A	
	ault printer	;k

Step9. If you can't find your printer driver in the list, please click **Have Disk** button to browse your printer driver CD. And then click **Open** button.

Open						? 🛛
Look jn:	C WINXP_200	0_VISTA_32	~	00	🖻 🛄 •	
My Recent Documents Desktop	sx450s					
My Documents						
My Computer						
	File <u>n</u> ame:					<u>O</u> pen
My Network	Files of type:	Setup Informatio	ın ([*] .inf)		×	Cancel

Step10. Then select the driver from the list and click on the **Next** button. If you didn't select the correct driver, please click **Have Disk** button to browse again.

Samsung SC	X-4500 Series-501201
The Network select from t installation o	Printer Wizard cannot find a driver for this printer. Manually the list, or click 'Have Disk' if your printer came with an lisk.
Manufacturer	Model
PROVIDER	Samsung SCX-4500 Series

After the printer has been setup correctly, you can see it under Control Panel->Printers.



Now you can send a print job to the printer you've set.

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7. Connecting USB WebCam

Step1. Attach the web cam to the NH-204.

Step2. Install your web cam driver which provided by web cam manufacturer. Step3. Double click the web cam device or click the **Connect** button to link it. And you can find the web cam mounting in the "**My Computer**". Now you can use it.



Note : NH-204 supports USB1.1 WebCam only.

8. USB server icon definition

	USB device has been established and is now connected
Q:	Error with USB device. Problem : out of paper
	The device is not connected but has some type of problem such as out of ink or out of paper
	USB device is available and ready to be connected
	USB device is in use by another user
Q	Problem with a USB device occupied by another user
×	Unsupported USB device
*	USB server is on a different network segment. USB device can not be connected.

Web Management Interface

1 How to get into the web page

NH-204 allows the users to configure the settings via the web-based UI.

Step1. Select the target server on the USB Server program

Step2. Then click on the "**Config**" button to link to the web page. Or click

" My Network Places" to click the USB Server icon for linking.

Below is the main page of the configuration user interface. You can see the important information of NH-204 and the device(s) connected to it. The 6 links on the left side represents the function chart. Clicking on "**Device Status**" to bring you back to this page, and the other links take you to different configuration pages.

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		Leading the Evolution in Miniaturized Server Design
Device Status Network Reset Device	Status	
Factory Default		Server Information
Firmware Update	Server Name	USB Server
Password Change	Manufacturer	Generic
	Model	USB Server
	Firmware Version	V. 100.067
	Server UP-Time	28 days, 8 hours, 4 minutes, 3 seconds.
		Device 1 Information
	Device Name	Canon MF3110
	Link Status	Online
	Device Status	Ready
	Current User	
		Device 2 Information
	Device Name	
	Link Status	
	Device Status	
	Device Status Current User	

2. Network information/setting

This page displays the current network setting of the server and provides links to the pages where you can perform special actions. You can change the network setting according to your need. However, please note that if you would like to give this server a static IP, please disable the DHCP option. Once the setting is done, please click on the "**Submit**" button and **reboot** the server.

NOTE: A server with busy device(s) connected is prohibited to be configured to prevent interruption of any on-going tasks.

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	Subnet Mask	255.255	.255.0	0			
	MAC Address	00:40:01	:00:0	0:01			
	5						
		Net	work	Settir	ng		
	DHCP Setting	Disable	• 🕶				
	IP Address	192	168	. 2	. 17		
	Subnet Mask	255	255	. 255	. 0		
	Server Name	USB Se	erver				
	Password				*Must Provi	de If Available*	
		Subm	it 🗌	Clear			
完成							

3. Reset device

With the "**Reset Service**" option you can reboot the USB server. However, if existing a set password , you must enter it execute the function. Password is default blank , no need to enter anything unless a password was explicitly set. Besides, reset the USB server will not clean up the former settings.

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		Leading the Evolution in Miniaturized Server Design	
Device Status Network Reset Device	Reset Device	Reset Device	_
Factory Default	Password	*Must Provide If Available*	
Password Change		Submit	
完成			

4. Factory default

Clicking on this link will take you to the page where you can let the server's settings back to default. The password is not necessary if no password was set. Just leave the field empty and click on the "**Factory Default**" button to restore the factory default settings.



5. Change password

Clicking on this link will take you to the password update page. To change the password, you must enter current password, input new password and re- input new password for confirmation and then click on "**Submit**". If you are setting the password for the first time, you don't have to enter any password in the current password field. The default is **empty** value.

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Device Status Network Reset Device	Password Change	Pacewor	d Change	
Factory Default	Current Password	Fasswor	*Must Provide If Available*	
Firmware Update	New Password	-	Mastri toride il Avallable	-
Password Change	Confirm New Password			-
		Submit		-
完成				

Application User Interface

To start up the USB Sever program, please disconnect all devices firstly. Then right click on the server you would like to configure. And select the "**Setting**" option. If the protective password has been set, this option will bring up the following configuration dialog for entering the password. If not, you will see the **Server Setting** dialog immediately.

N USBServer	
File View Help	
 USB Server-010203 (192 168 1 69) USB 2.0 Flash Dis Setting 	
Search Config	

Network Setting	S
Server Name:	USB Server
IP Address:	192 . 168 . 1 . 69
Subnet:	255 . 255 . 255 . 0
Set	Cancel
	Backup Firmware
	Update Firmware
	Change Password
7	

1. Set up Server name and IP address

These fields allow you set the server name and IP address. If you want to change to the static IP address, please disable the DHCP item. After finish the Server Name or DHCP, please click the "Set" icon for saving the modification.

Note : If you would like to change the IP address, please make sure all the IP stuff and the consequences of changing IP.

2. Firmware Backup

In case you have updated the latest firmware to the USB server but want to revert to the old, you can use this function.

Step1. Use the **Browse** button to choose the file you want to backup. Step2. Click on **Submit** to back up the current firmware and save it on your PC.

3. Change password

Step1. Enter the new password and Confirm the new password. Step2. Click the Submit to enable the change.

4. Reset Server

This button reboots the server without cleaning up the former settings. Please note that the **Reset** will not work when the USB server is connecting to device(s) or the device is in use by another user.

USB Server System Setup

1. Polling Interval

The **USB Server** program periodically polls your network to find out the status of all the connected devices. Any change on the status of servers and devices will be updated to the tree view in the main dialog box. The default setting is that the program would perform this polling every 30 seconds.

To change this polling interval by following steps:

Step1. Click on File -> Settings -> Polling Interval on the control menu.

W USBServ	er	
File View H	ielp	
Setting 🕨	Polling Interval	
Quit	Languages ✔ Receive Disconnect Request	F

Step2. Then you will see the dialog pop out.

N Polling Interval	
Configuration	
0	Seconds
Input 0 to stop poll Minimum input is 2	ing . 0 seconds .
Submit	Cancel

Step3. As indicated on this dialog box, you must input a minimum of 20 seconds. 0 second means to disable this function.

Step4. After setting, click on **Submit** to allow the new interval to take effect.

2. Language

USB Server now supports multiple languages : Please go to File -> Settings -> Languages option and select the desired language.



3. Search

When you are in need of knowing the status of all the connected devices immediately, use the Search function. Clicking on the "Search" button triggers the program to immediately poll the network for the status of all the servers and devices. The result will be updated to the tree view.

USBServ le View	er Help	
	JSB Server-334455 (10.11.42.84) USBest Technology USB Mass Hewlet-Packard hp LaserJet 10 Camera SanDisk Corporation Cruzer Micr	Storage Device 10 ro
	Search C	Config

4. View

The tree view in the main dialog has two display modes: "**Servers and Devices**" mode and "**Devices Only**" mode. The default setting is "Devices Only". You can toggle between these two display modes with the View option on the control menu.

5. Device Details

Step1. Right click the device, a box will pop out. Step2. Select the "Details" options.



Step3. Some detailed information about the selected server/device respectively will be displayed in another pop-up dialog box.



5. Application information

Step1. Click the **Help** and then click the about.



Step2. A dialog box with legal and other relative information displayed below :

🔉 About 🔊
Nu
USBServer
Version 2.0.6.4 , October-14-2008
PSM DLL
Version 2.0.5.0 , June-15-2008
Copyright (C) 2008 USB Server. All rights reserved. <u>http://www.usb.org</u> OK

Firmware update

- Step1. Please connect the NH-204 to the network and power on.
- Step2. Execute the "**FWUpdater**". Then the USB Server will be detected. If not, please click the **Search** button to find again.



Step3. Click the **Update** button. Then the update task will work in process.

Message 🛛 🔀	
Update firmware successfully.	
ОК	

Hardware Reset

The H/W reset function will recover your setting to default. Please use a needle to continuity push in the inner reset button for 5 seconds. It will execute below default setting :

- a. Default the DHCP Setting to Enable.
- b. Default the Server Name to USB Sever.
- c. Default the Password to Empty value.



FAQ

1. How come I don't see any USB server on my GUI after installing it?

A: Besides the obvious reason of your PC or the USB Server might not be connected to the network correctly, using a personal firewall on your PC might block the program from accessing the network. Please make sure your firewall/anti-virus software is not blocking USB Server application.

2. How come I don't see any USB devices on the USB GUI?

A: First of all, of course, check and if your USB device has been correctly connected to the NH-204 and powered on. Another possible reason is that, even though the USB server does support USB hub, the combination of a Full Speed Hub with a Low Speed Device (such as mouse, keyboard, etc), is **NOT** supported by NH-204 USB Server.

3. Why do I connect the device to the NH-204 but it can't work?

A: Some USB devices requires device driver to work properly like printer, web cam or scanner etc. You should check and see if the device driver is correctly installed. To do so, simply connect the USB device to your PC directly via a USB cable and see if the USB device works. If it does not work, then it wouldn't work when connected via USB server either.

4. How should I do if I forget my password or IP address?

A: Doing Hardware Reset. Please refer to Hardware Reset instruction.