

GRAND iUSB HUB

USB to VGA/ HDMI Monitor

User's Manual



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FCC

DECLARATION OF CONFORMITY
Per FCC Part 2 Section 2. 1077(a)



The following equipment:

Product Name : GRAND iUSB HUB
Trade Name : GRANDTEC ELECTRONIC CORP.
Model Number : P499

It's herewith confirmed to comply with the requirements of FCC Part 15 Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

The result of electromagnetic emission has been evaluated by QuieTek EMC laboratory (NVLAP Lab. Code : 200533-0) and showed in the test report.
(Report No. : 085278R-ITUSP01V02)

It is understood that each unit marketed is identical to the device as tested, and any changes to the device that could adversely affect the emission characteristics will require retest.

CE


Declaration of Conformity

The following product is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive (2004/108/EC). The listed standards as below were applied:

The following Equipment:

Product : GRAND iUSB HUB
Model Number : P499
Trade Name : GRANDTEC

This product is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive (2004/108/EC). For the evaluation regarding EMC, the following standards were applied:

RFI Emission:

EN 55022:1998+A1:2000+A2:2003 Class B	: Product family standard
EN 61000-3-2:2000+A2:2005 Class A	: Limits for harmonic current emission
EN 61000-3-3:1995+A1:2001	: Limitation of voltage fluctuation and flicker in low-voltage supply system

Immunity:

EN 55024:1998+A1:2001+A2:2003	: Product family standard
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1. Package Contents

This package contains the following items :

- iUSB HUB
- RJ-45 Cable
- Power Adapter (DC 5V, 2A)
- Driver CD (Driver & User Manual)



iUSB HUB



RJ-45 Cable



Power Adapter
(DC 5V, 2A)



Driver CD

2. Introduction

The Grand iUSB is a network-enabled USB hub. The iUSB lets you share up to four USB devices such as digital cameras, external hard drives, flash drives or printers on your network.

Connects the iUSB to a wired or wireless hub, all users on the network can access all the USB devices without cable clutter around your computer.

With the Grand iUSB, you can back up and access data from networked storage device, and can also print files to the USB printer in your living room from your bedroom. The Grand iUSB HUB can network your USB device to enhance economic efficiency. It is ideal for home office, small office or classroom use.

3. Product Features

- Plug & play. Installs in seconds.
- Supports 4 USB 2.0 ports for connecting to USB devices such as printer, digital camera, scanner, hard driver or media reader.
- Supports one RJ-45 port for connecting your network.
- Supports 10/ 100Base-T Ethernet.
- Bundled Management Software
 - Centralized remote USB server management and status monitoring.
 - Centralized remote printer management and status monitoring.
- Power Supply: DC 5V.
- Dimensions: 115(L) x 43(W) x 25(H) mm.

NOTE: Each USB device limits one person to connect.

4. Hardware Overview



5. Installation

Step 1: Plug the power adapter into the Grand iUSB HUB.

Step 2: Connect the Grand iUSB HUB to your network router by using the provided RJ-45 cable.

Step 3: Install the USBServer program

- Insert the setup CD into your CD-ROM driver.
- Execute the **Setup.exe** to Install the USB Server program.
- A dialog box should pop up to prompt you to choose desired installing language. After choosing the language, click on **OK** to start the installation automatically.

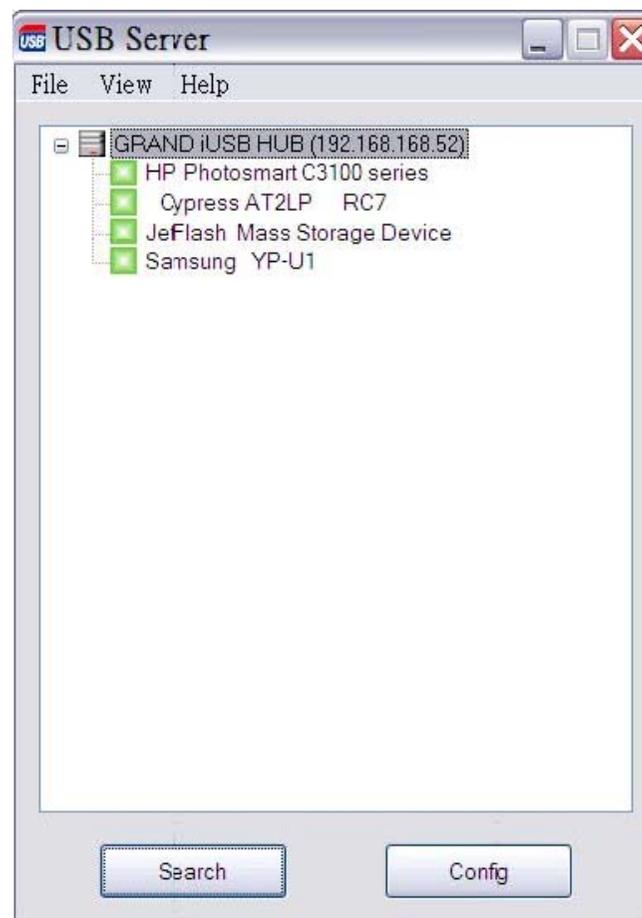


- Follow the instructions of the wizard to complete the installation process.

6. Using the iUSB HUB

Double click the shortcut icon of USBServer on the desktop to run the program. The main dialog box of USBServer is shown below. It is consisted of a Control Menu (File, View and Help), a tree view (list the USB Servers and devices in the network), a button of **Search** to get the current USB Servers and devices in the network, and a button that toggles between **Config** and **Connect** depending on the node you select on the tree view. It toggles to **Config** when a server is selected on the tree view and to **Connect** when a device is selected. The tree view displays the all the USB Servers and devices your PC has access to.

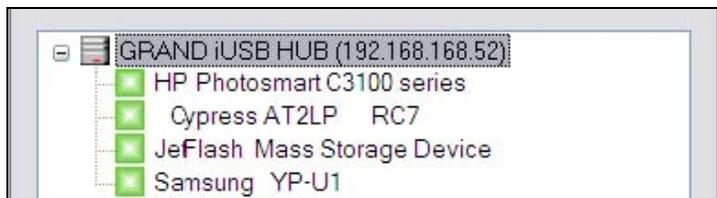
NOTE: You will be allowed to set an alias name for each of the servers for easy recognition. The alias name with its IP address will be displayed on the tree view. The way to set alias name will be described in the “**Config.**” section below.



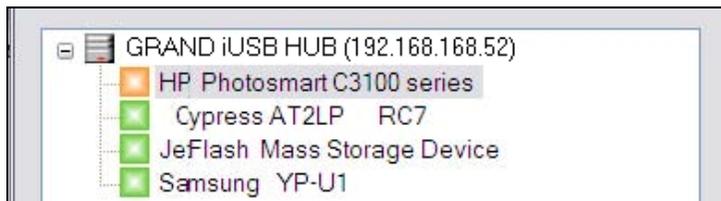
6.1 Status of USB Servers & Devices

Each status is represented by an icon of different color.

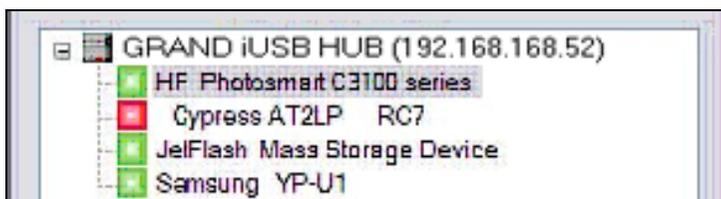
- **Green Icon:** Indicates the device is available for you to use.



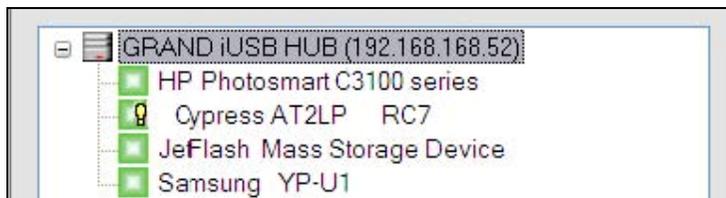
- **Orange Icon:** Indicates the device is used by yourself.



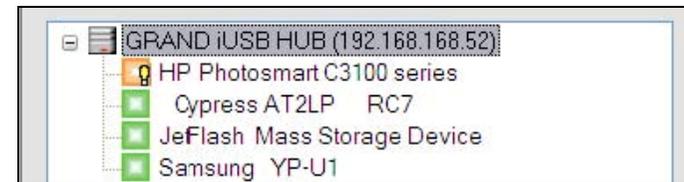
- **Red Icon:** Indicates the device is being used by someone else and it is unavailable. You can make a device request to the user (refer to 6.3).



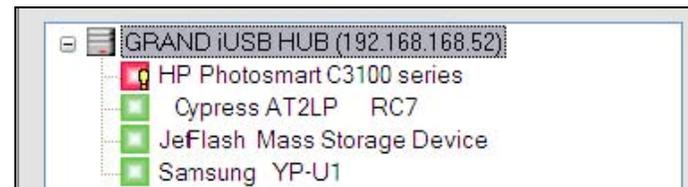
- **Green Icon with an Exclamation Mark:** Indicates the device is available for you to use, but there are some problems on the device (such as out of ink, out of paper or paper jam).



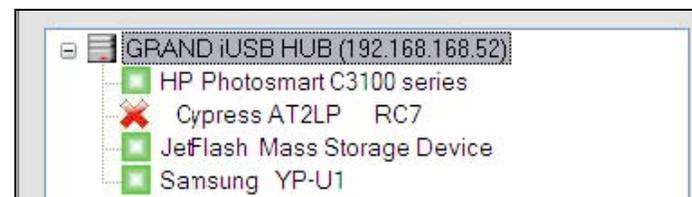
- **Orange Icon with an Exclamation Mark:** Indicates the device is used by yourself, but there are some problems on the device (such as out of ink, out of paper or paper jam).



- **Red Icon with an Exclamation Mark:** Indicates the device is being used by someone, but there are some problems on the device (such as out of ink, out of paper or paper jam).

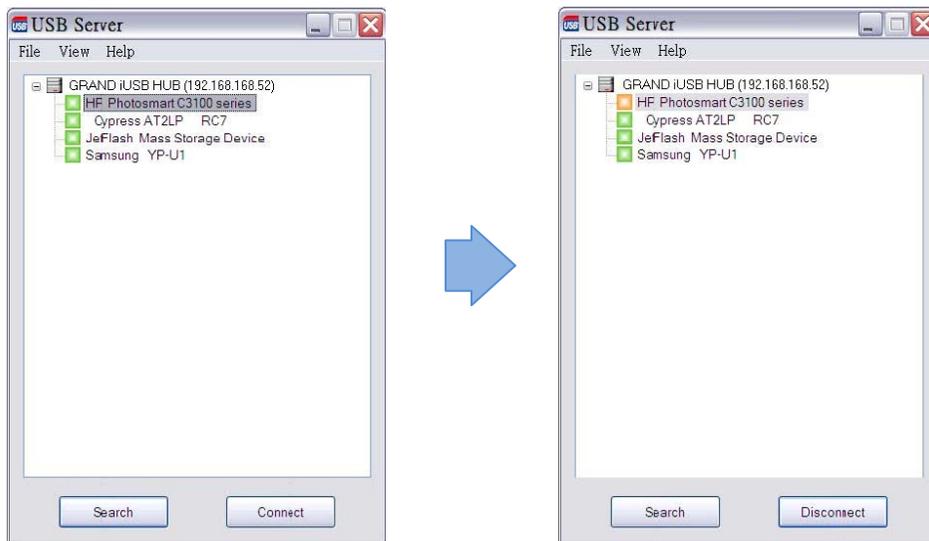


- **Red Cross:** Indicates the device is not supported by the iUSB HUB.



6.2 Accessing a USB Device

The USB Server allows you to share the resources, such as scanning function, of a multi-functional printer over the network. To use a multi-function printer connected to a server, you must first establish a connection to the printer. You can utilize the printer you want to use by using the OS built-in printer management application on your PC. To connect to a printer, please select the target printer on the tree view and click on **“Connect”** button, or the **“Connect”** option on the right-click menu, to establish the connection. When you see the green icon turns red, it means you are successfully connected and are ready to work. You can now bring up the corresponding control applications of the printer to perform the desired tasks. You may also connect to a device by double clicking it on the tree view. If you select a connected device on the UI, you can see that the **Connect** button is changed to **Disconnect**.



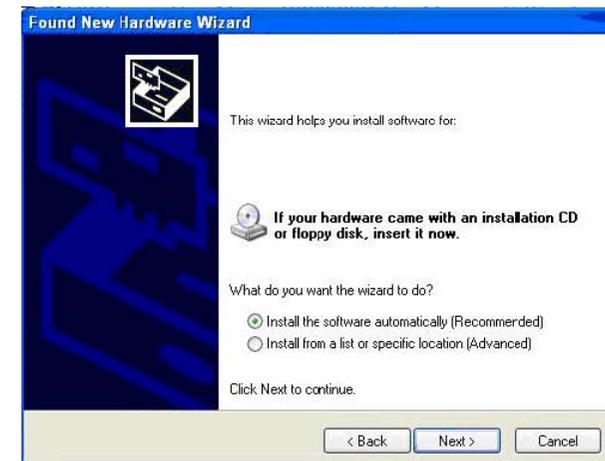
Clicking on the button disconnects you from the selected device. Once you see the icon turns green, the device has been completely disconnected.

NOTE: At the first time you connect to a device, you will be prompted to install the driver for USB Server:

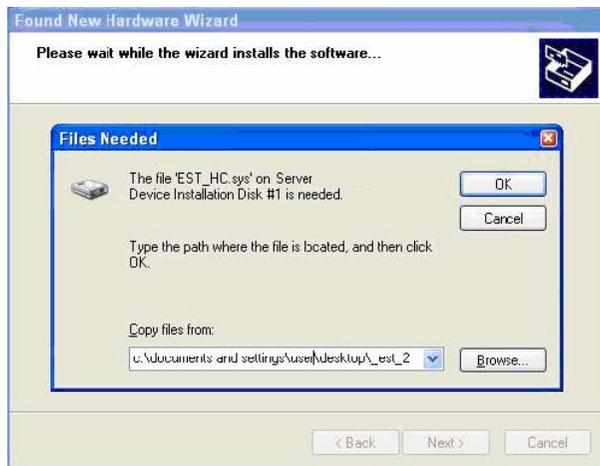
Step 1: Select **“No, not this time”** when you see this prompt and then click on **“Next”** button.



Step 2: Choose **“Install the software automatically”** option and then click on **“Next”** button to start installation. If you already have the drivers installed on the PC, then the installation will complete by itself. Otherwise, you will be prompted to provide the path to the driver on your PC.



Step 3: Click on “OK” to continue with the installation once you have provided the path to the driver. The driver will then install automatically if the path is correct.

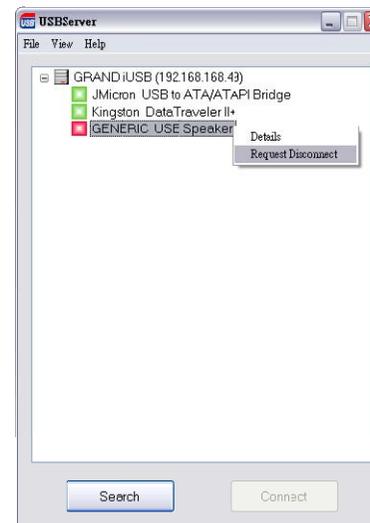


Step 4: Click on “Finish” to complete the driver installation. Please note that you will have to do this once and once only for each USB Server you add to your network.



6.3 Making a Disconnect Request

If someone else is connected to a device that you want to use, you can make a device request to the user. Right click on the device and select “Request Disconnect” from the pop-up menu.



The other user will receive a message as shown below. When the other user clicks “Yes”, the device will be disconnected automatically from that user’s computer and it will be available for you to use.



6.4 Server Configuration

We allow the users to configure the settings of the USB Servers via the web-based UI. Select the target server on the tree view and then click on the “Config” button to bring up this configuration UI. Your default web browser will pop up and take you into the web-based configuration UI of the printer server.

This is the main page of the configuration UI. You can see the important information about the USB Server and the device(s) connected to.



- Device Status
- Network
- Reset Device
- Factory Default
- Firmware Update
- Password Chage

Status

Server Information	
Server Name	GRAND iUSB HUB
Manufacturer	Generic
Model	USB Server
Firmware Version	V. 100.060
Server UP-Time	0 days, 1 hours, 29 minutes, 41 seconds.

Device 1 Information	
Device Name	Kingston DataTraveler II+
Link Status	Online
Device Status	Ready
Current User	

Device 2 Information	
Device Name	
Link Status	
Device Status	
Current User	

Device 3 Information	
Device Name	
Link Status	
Device Status	
Current User	

Device 4 Information	
Device Name	
Link Status	
Device Status	
Current User	

- Network:** This page displays the network information of the server. 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 you are done, please click on the “Submit” button and reboot the server.



- Device Status
- Network
- Reset Device
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Network

Network Information	
IP Setting	Fixed IP
IP Address	192.168.168.52
Subnet Mask	255.255.255.0
MAC Address	00:13:fe:00:00:01

Network Setting	
DHCP Setting	Disable
IP Address	192 168 168 52
Subnet Mask	255 255 255 0
Server Name	GRAND iUSB HUB
Password	<input type="text"/> *Must Provide If Available*
<input type="button" value="Submit"/> <input type="button" value="Clear"/>	

- Reset Device:** To reboot the iUSB HUB. However, if there is a password, you must enter it for this function to work. Password is by default blank. So, unless a password is explicitly set, you do not have to enter anything for the reset function to work.



- Device Status
- Network
- Reset Device
- Factory Default
- Firmware Update
- Password Chage

Reset Device

Reset Device	<input type="text"/> *Must Provide If Available*
<input type="button" value="Submit"/>	

- **Factory Default:** Clicking on this link takes you the page where you can restore the server's settings back to default.



- **Firmware Update:** Please first click on the “Browse” button to browse to the firmware you would like to upload and then click on the “Submit” button to update the firmware. You do not need to provide a password for this operation if there is not password set. Please just leave it blank.

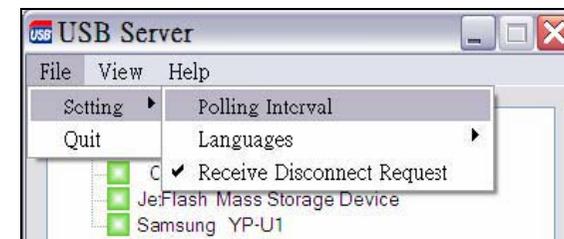


- **Password Change:** To change the password, you must enter current password, input new password and re-input new password for confirmation and then click on “Submit”. If you are setting the password for the first time, you don't have to provide current password.

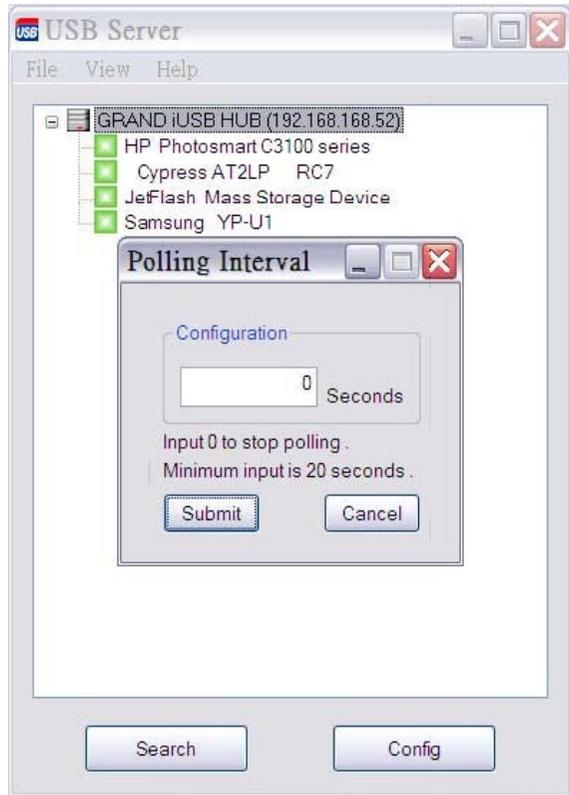


6.5 Other Functions

- **Polling Interval:** The USB Server program periodically polls your network to find out the status of all the connected servers and 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 10 minutes. To change this polling interval, click on the **File** → **Settings** → **Polling Interval** option on the control menu.



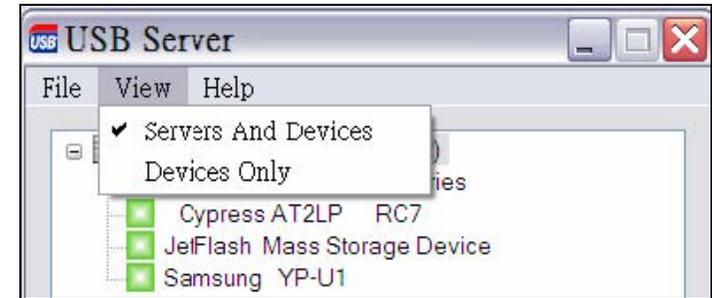
Directly input the interval time, and click on Submit to allow the new interval taking effect.



- **Language:** Select the language of the program. Click on the **File** → **Settings** → **Languages** option and select the desired language.



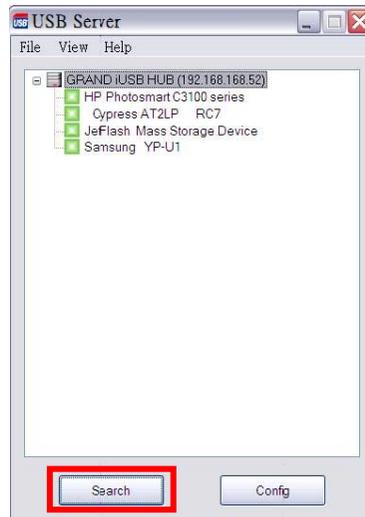
- **View:** The tree view in the main dialog has two display modes: **“Servers and Devices”** mode and **“Devices Only”** mode.



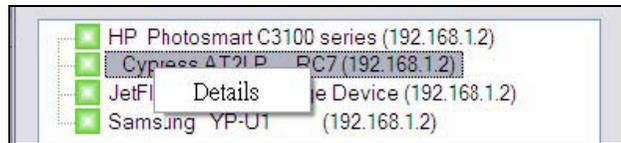
- **Help:** Clicking on the **“About”** brings up a dialog box with legal and other relative information displayed.



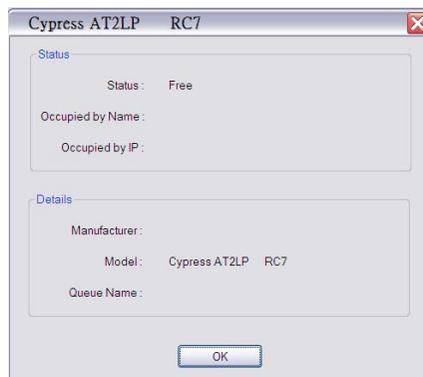
- **Search:** Clicking on the “Search” button triggers the program to immediately poll the network for the status of all the servers and devices. The result will be updated to the tree view.



- **Device Details:** Right click on a device on the tree view, and a menu will pop up.



Select the “Details” options, the detailed information about the selected USB device will be displayed in another pop-up dialog box.



7. Using Bonjour to Print

Works with the Bonjour, you can directly use the shared printer without executing the USBServer. If the printer is being used by other user, you can also print document without waiting for the disconnection.

Step 1: First download Bonjour for window.

(<http://www.apple.com/support/downloads/bonjourforwindows.html>)

Step 2: Double-click the Bonjour installer and follow the onscreen instructions.

Step 3: After installing, the shortcut icon of Bonjour Printer Wizard will appear on the desktop.

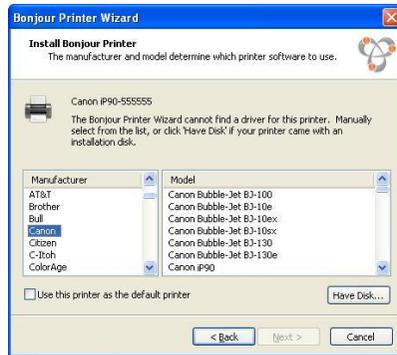
Step 4: Double-click the shortcut icon of Bonjour Printer Wizard to connect a shared printer.



Step 5: Select the printer you want to share from the list of available devices.



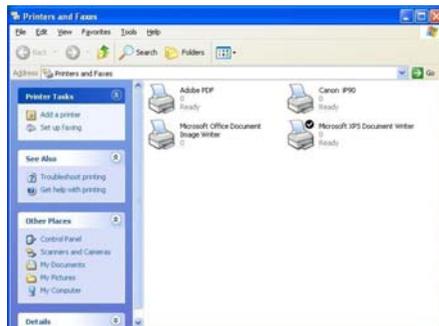
Step 6: Select the **Manufacturer** and **Model** of the shared printer from a drop down list, or click "Have Disk" if your printer came with an installation disk.



Step 7: Click **Finish** to complete the installation.



Step 8: You'll see the printer appear in the **Printers and Faxes (Start → Control Panel → Printers and Faxes)**, and you can use the printer to print document.



8. FAQ

Q: How come I don't see any nodes on my tree view when I start up the program?

Ans.: Your PC or the USB Server might not be connected to the network correctly, using a personal firewall on your PC might interfere with the performance of the USB Server Application. If your PC or the USB Server(s) is connected to the network correctly, press on "Search" to fix the problem.

Another possibility is that the driver was not correctly loaded when the program starts up. In this case, please shut-down the program and restart it again. If you are prompted to load drivers at the start-up of the program, then you know it is not correctly loaded before. Please follow the instructions described in the "Running Program" section to correctly load the drivers.

Q. How come the USB Server behaves strangely after I update the drivers?

Ans.: Please reboot your PC after updating the drivers. The program might not function normally until you do so.

Q. Why do I get "Network Error, Please check your network connection before running USB Server" message at the start-up of the USB Server Program?

Ans.: This is when your network connection on the PC has problem. Please check your network connection and see whether or not the network card is enabled or if the network cable is plugged in.

Q. What do I do if I get a message telling me there is a driver error?

Ans.: Please check and see if the printer or USB device driver is installed correctly. Another possibility is that the driver might be disabled under device manager. Please verify that also. Generally, when you see an error regarding the device driver, you should reboot your PC to reset the driver.

Q. How come I don't see any servers on my USB Server GUI after installing it?

Ans.: One of the possibilities that might have caused this is that there is a Firewall software installed on your PC. The Firewall will block any unauthorized attempt to access the network from your PC, and since you have just installed USB Server on your PC, its attempt to search the network for any servers or devices will be dimmed as unauthorized until you state otherwise to the Firewall. To solve this problem, when your Firewall software warn you that USBServer is attempting to connect to the network and would you allow it or block it, please allow it, and then click on "Search".

Q. How come it takes more than a couple of minutes to connect to a device?

Ans.: A possible cause for this problem is an incorrect installation of the device driver. Please try uninstalling the device driver and reinstalling it. Please make sure you reboot your PC after the driver installation.