

# USB 2.0 GDI Print Server

**FPS-1011**



**User's Manual**

**Version: 2.0  
(March, 2010)**

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## **Revision**

User's Manual for PLANET USB 2.0 GDI Print Server

Model: FPS-1011

Rev: 2.0 (March. 2010)

Part No. EM-FPS1011v2.0.doc

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# 1. Introduction

## 1.1 Product Introduction

Thank you for purchasing and use our FPS-1011. The FPS-1011 allows your printer or GDI/Host-based printer become a sharable device on the network.

GDI printer is a printer that has built-in support for Windows Graphical Device Interface (GDI), so it is no need to convert the output from Windows to another format such as PostScript or PCL language. GDI printers are sometimes called host-based printers because they rely on the host computer to rasterize pages. Because of that, almost none of Print Servers in the market can support GDI printer network sharing. The FPS-1011 implements a special technology which allows it to communicate with the GDI printer as if it is connected directly to your computer. With the feature, the GDI printer is easy to become a shared device and you don't need to worry about the compatibility with the GDI printers anymore.

The FPS-1011 supports GDI printer in the most popular operating systems: Windows 98SE/Me/2000 SP4 above/XP SP1 above. Not only be a GDI Print Server, it can also act as a traditional Print Server. This Print Server supports TCP/IP network protocol and LPR, RAW and IPP printing protocols. It is compatible with a large number of normal printers in the various common network operating systems including Windows 2000, XP, 2003, Vista and Windows 7, UNIX, Linux and MAC OS 9.x above.

The FPS-1011 is the best solution for users to share GDI printer or printer conveniently and easily. It offers the most flexible and manageable printing for GDI printer or normal printer on your Local Area Network at an extremely low cost and with an absolute minimal setup and maintenance required.

## 1.2 Product Package

This package contains the following components:

- 1 x FPS-1011
- 1 x Power Adapter
- 1 x Driver and User Manual CD
- 1 x Quick Installation Guide

# 1.3 Printer Server Outlook & LED Indicators



LED	Status Description
LAN	On: Indicates LAN port is connected. Off: Indicates LAN port is not connected.
ACT	Blink: Indicates print server is transfer data to printer.
READY	Blink: Indicates the print server is during boot up. Off: Indicates the print server boot up procedure is complete.

## 2. GDI Print Server with Print Server

The FPS-1011 supports dual functionalities: GDI Print Server and Print Server at the same time. Users can choose one of the modes to share general printer or GDI printer through the GDI Print Server.

### **GDI Print Server Mode:**

GDI printer is a printer that has built-in support for Windows Graphical Device Interface (GDI), so it is no need to convert the output from Windows to another format such as PostScript or PCL language. GDI printer relies on the bi-directional communications between printer and computer frequently, so that the majority of print servers cannot support it.

The FPS-1011 can communicate with the GDI printer as if it is connected directly to your computer. The FPS-1011 supported OS in this mode is Windows 98SE/Me/2000 SP4 above/XP SP1 above. The GDI Print Server mode doesn't support Windows 98SE/ME/NT, Linux/UNIX or MAC OS.

### **Print Server Mode:**

The FPS-1011 also supports LPR, IPP and RAW printing protocols, which enable users to share print function from printer. The supported OS is Windows 2000, XP, 2003, Vista and Windows 7, UNIX, Linux and MAC OS 9.x above.

## 3. Getting Started

Before you start, you should have:

- One computer with Windows 98SE/Me/NT/2000/XP for normal printer installation, if you are using GDI printer, please make sure your computer with Windows 98SE/Me/2000 SP4 above/XP SP1 above
- One GDI printer or general printer with USB port and an installation CD
- One Category 5 Ethernet Cable
- One USB Cable

### 3.1 Hardware Installation Procedure

1. Unpack the FPS-1011 package and verify that all the items listed in the previous section are provided.
2. Plug the USB cable to the FPS-1011 with the GDI printer or general printer that you want to share on the network.
3. Connect the FPS-1011 to your network by attached the network cable to the network port of the FPS-1011.
4. Connect the power adapter to the FPS-1011. The FPS-1011 will perform the Power-On-Self-Test (POST) after it is powered on. When the ACT LED is unlighted, the FPS-1011 is ready.

---

1. You must use the power adapter shipped along with the FPS-1011, do NOT use any other power adapter from other sources.

 **Note**

2. To prevent the compatibility problem between FPS-1011 and a few GDI printer or printer, it is recommended that you power on the FPS-1011 before the GDI printer or general printer.

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### 3.2 Software Installation Procedure

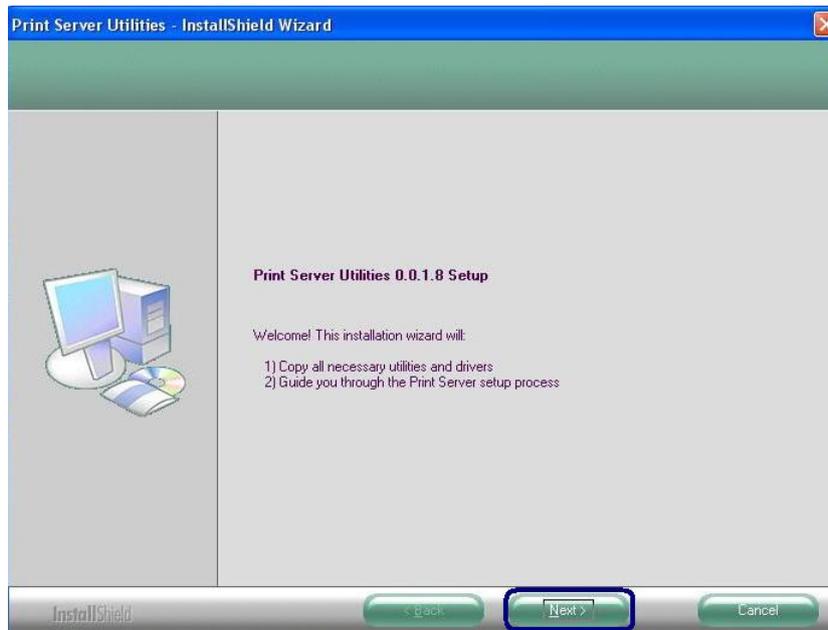
 **Note**

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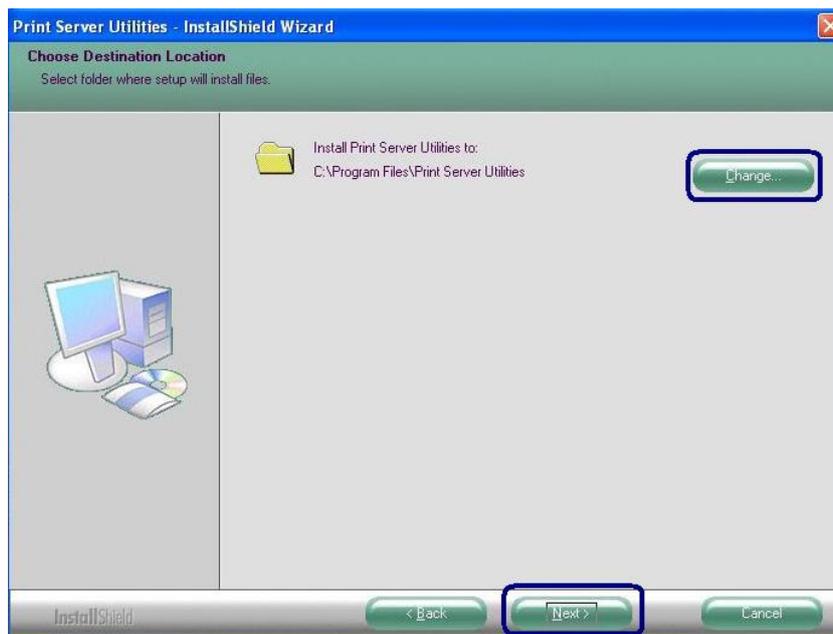
You have to uninstall all the Print Server drivers and utilities if you have installed the previous version.

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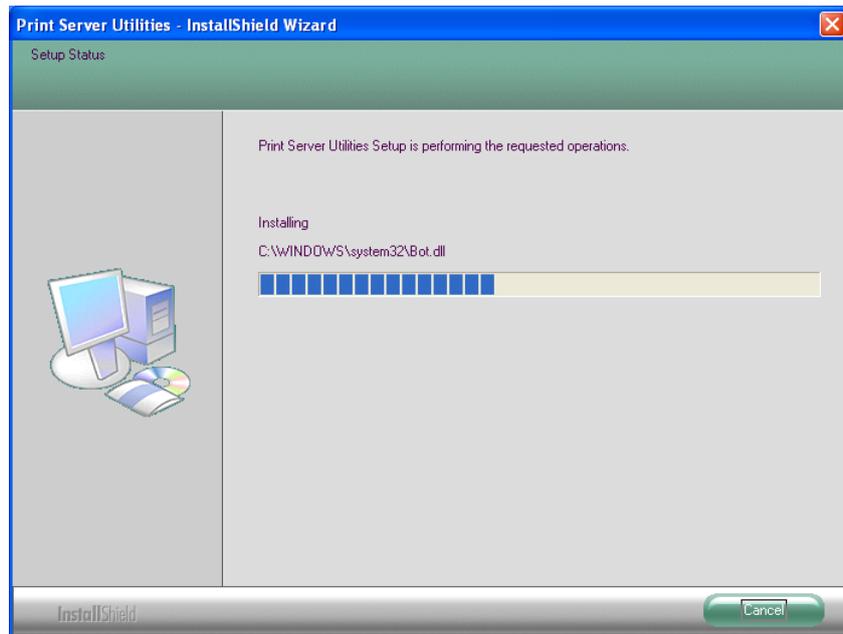
1. Insert Drivers and User's Manual CD into the CD-ROM drive to initiate the autorun program. Once completed a menu screen will appear
2. . Click on "Administrator Installation" hyper link to initiate the installation. Or you can click the "Start" button and choose "Run". (Suppose "E" is your CD-ROM drive). When the dialog box appears, enter "E:\Utility\Setup.exe" and press enter key. You will see the dialog box as below. Please click "Next" to continue.
3. The "Print Server Utilities - InstallShield Wizard" is displayed, click "Next".



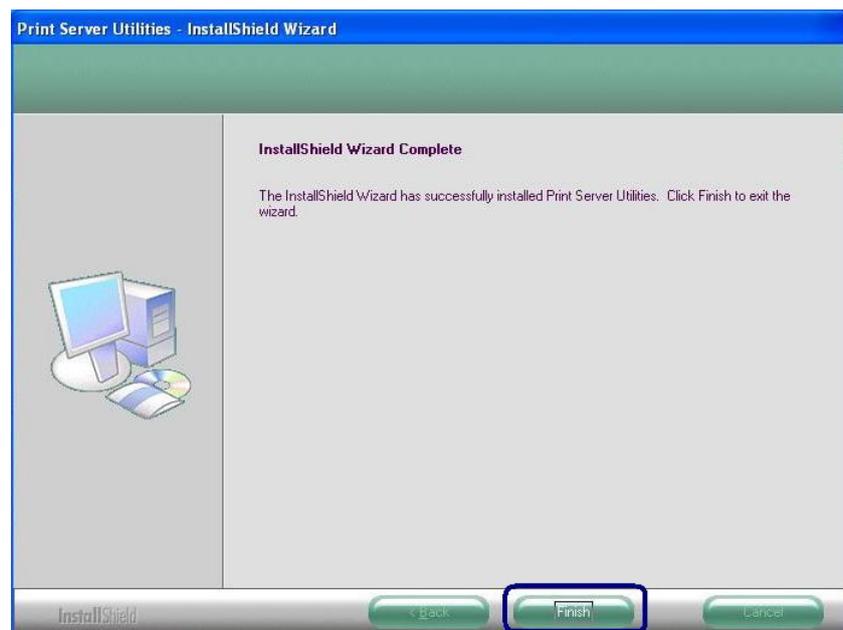
4. Click "Next" to install the Print Server utilities in the default folder or click "Change" to specify the destination folder where you would like to install the Print Server utilities.



5. The system starts installing the Print Server Utilities.



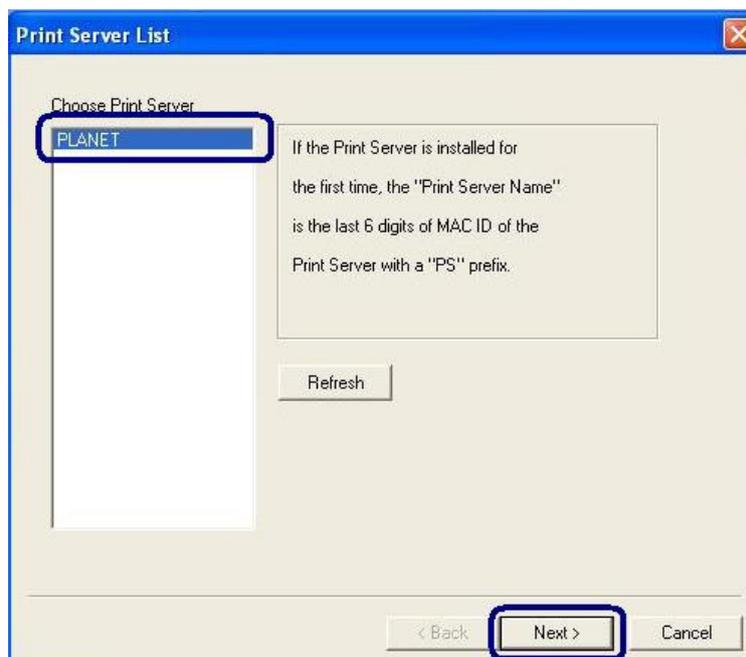
6. The utilities are all installed. Please click "Finish" to go to next step.



7. The Setup Wizard will be executed, it will guide you to configure the print server and install the printer with the print server to your computer. Please click "Next".



8. The program will search the Print Server within the network. Select the Print Server you would like to setup and click "Next" to continue.



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**Note**

If this is the first time you configure the print server, the "Print Server Name" will be the same as the "Device Name" printed at the bottom of the print server.

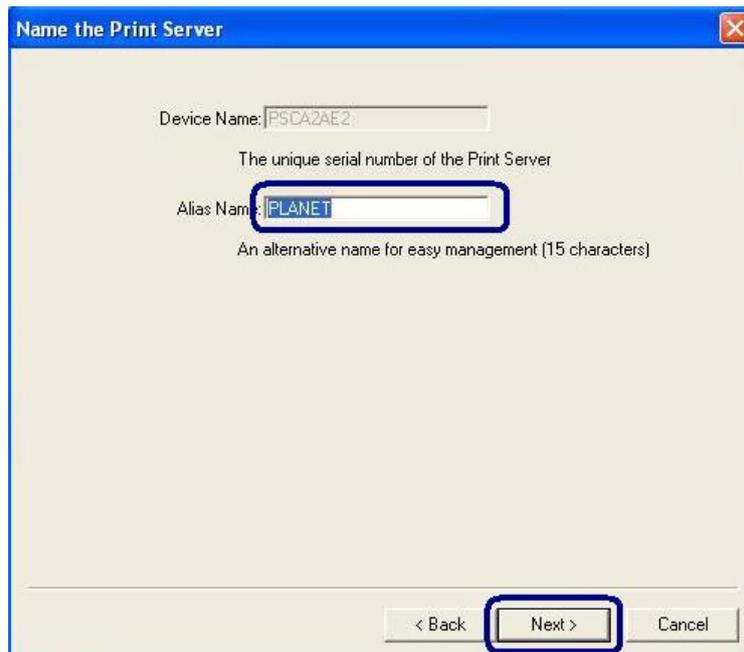
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9. Please enter the "Password" of the Print Server you have selected to login the Print Server for more settings. The default "User Name" is "admin"; default "Password" is "admin".

Following is the completed procedures for configuring the Print Server.



10. Set the "Alias Name" to the Print Server here. Click on "Next".



11. Please set the network settings for the Print Server manually. By default, the network settings are as follow.

**IP Address: 192.168.0.1**

**Subnet Mask: 255.255.255.0**

If you have selected "DHCP", the Print Server will try to determine the network settings automatically. If a DHCP Server is present within the network, the Print Server will automatically obtain and configure the network settings assigned by the DHCP Server. The assigned IP Address will be shown in the IP Address fields. If no DHCP Server is present within the network, please assign the network settings of the Print Server manually. Please click "Next" once you have found appropriate network settings for the Print Server.

**Note**

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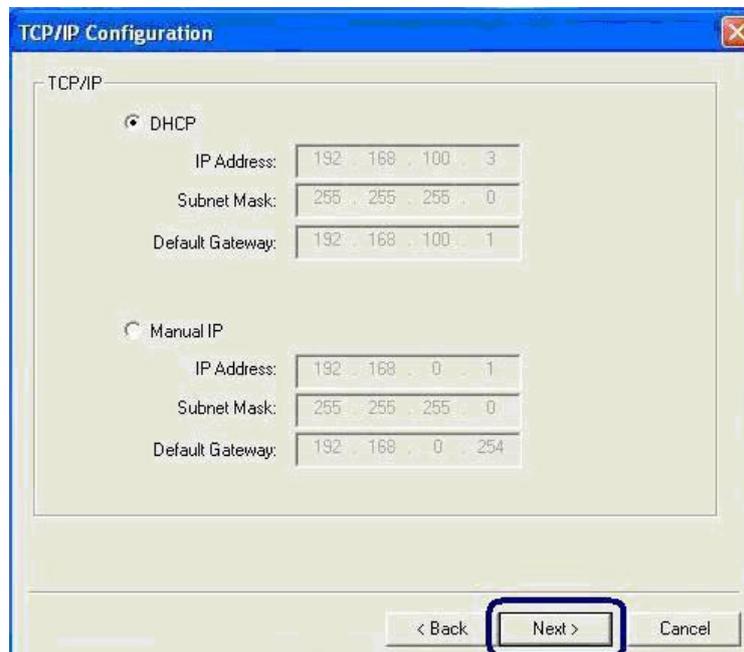
The Print Server IP Address must be set to the same network segment within your network environment or connected computer. If the network IP address settings are incorrect, then print server will not be able to communicate throughout the network.

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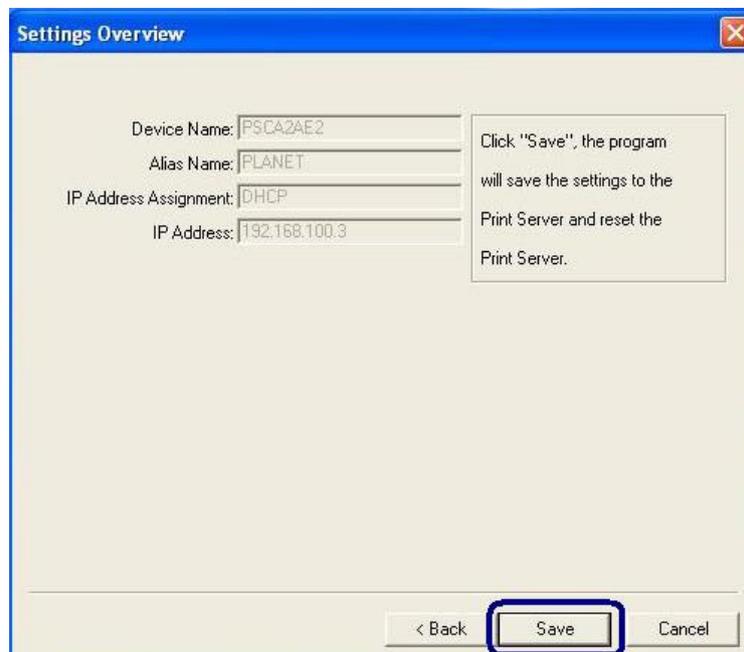
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The message will be prompted to remind you after you click "Next". If you do not want to set it now, please click "Cancel" to finish the installation. You can then use the "Server Manager" utility to configure the Print Server IP address.

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12. The configurations are finished. Please click "Save" to apply new settings and restart the Print Server.



13. The "Install Printer Driver" page allows you to install the printer drivers and bind your printer with the Print Server to your computer. Please click "Install Printer" to start the installation.



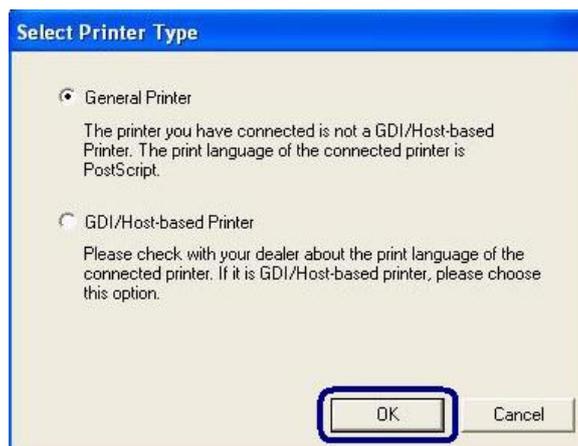
### 3.2.1 General Printer

**Note**

Please select your printer type. Please check with your dealer about the printer type and base on the information to select the correct one. If you are not sure the printer type, please select "General Printer". Click "Ok" to continue

Following is the installation procedures for "General Printer" installation.

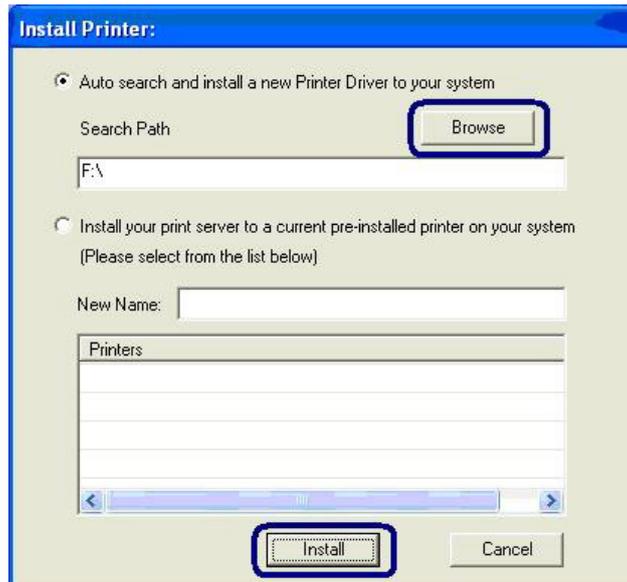
1. Select the "General Printer" and click "OK".



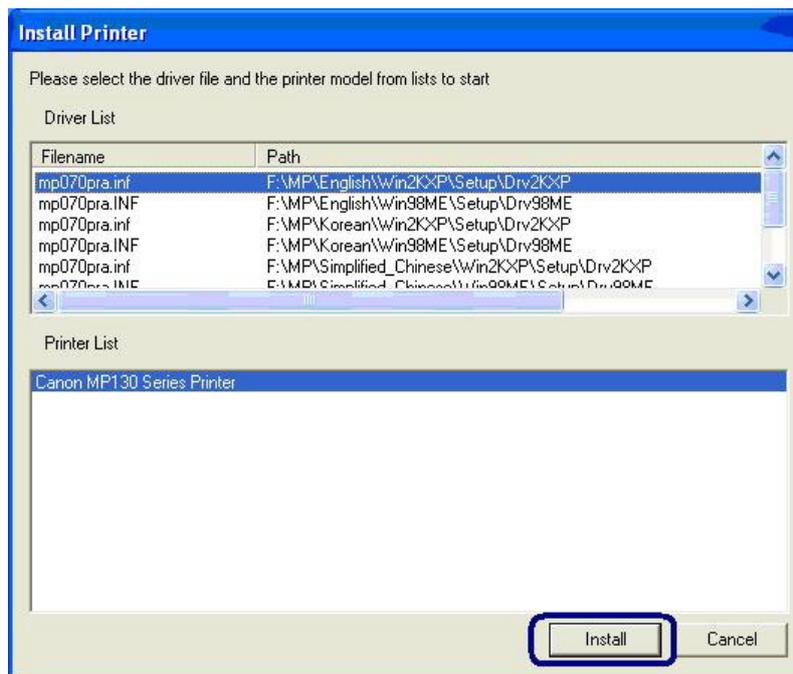
2. The "Install Printer" page is for you to search for the printer drivers. If you want to manually designated the file path of the drivers, please put the printer's installation CD to your CD-ROM drive and click "Browse" to find the drivers in the CD.

You can also install the drivers the same as your pre-installed printer (The

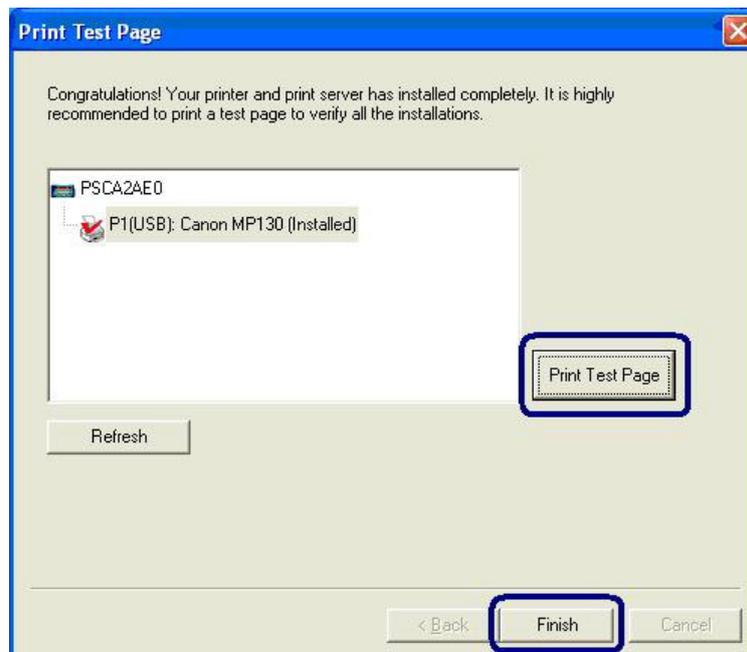
printers in the “Printers and Faxes” will be displayed in below table).



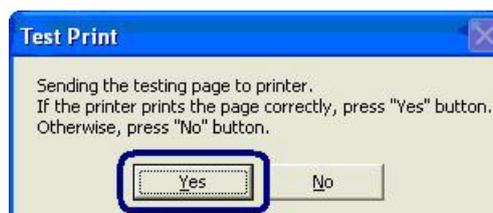
3. Please select the driver files and the printer model you wish to install and then click “Install”.



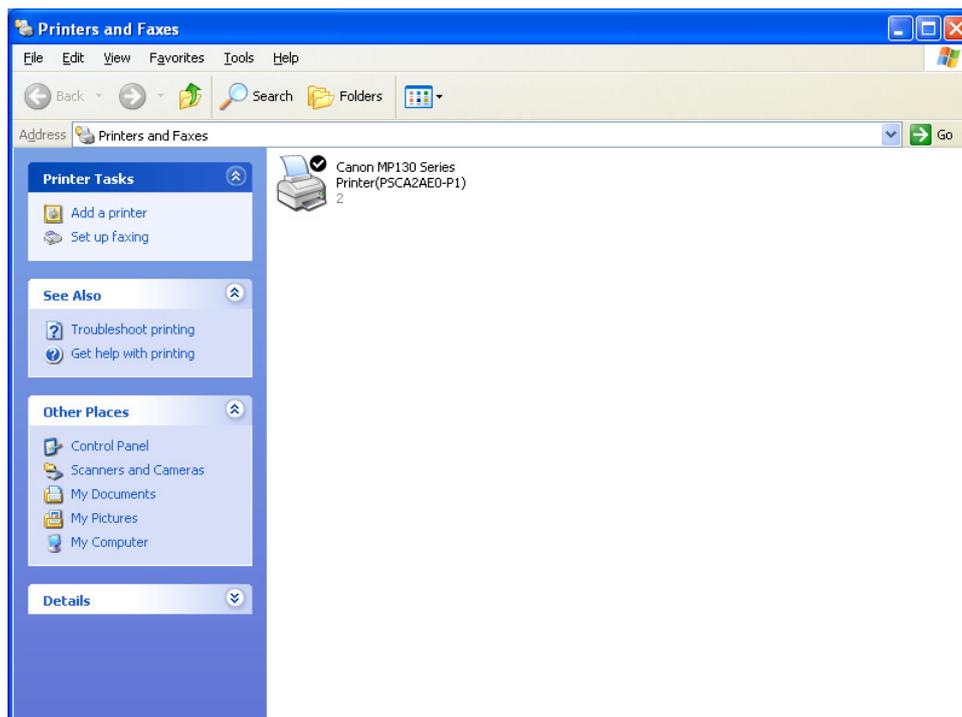
4. After the drivers are installed completely. Your printer has been found with the Print Server to your computer. Please click “Print Test Page” to confirm that you can print through the network successfully.



5. If you have completed the print job successfully, please click "Yes".



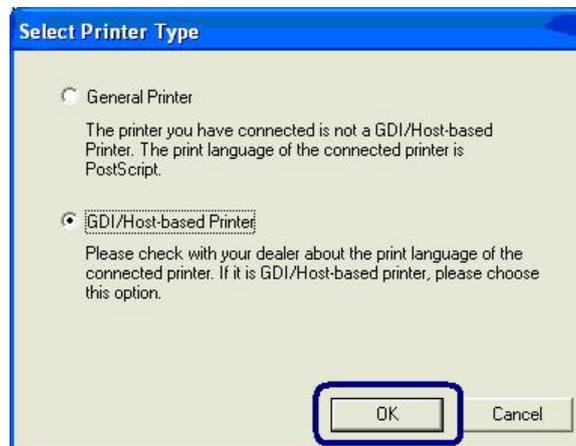
6. The installed printer will be added to the "Printers & Faxes" in the Windows. If you want to print documents, please select this printer.



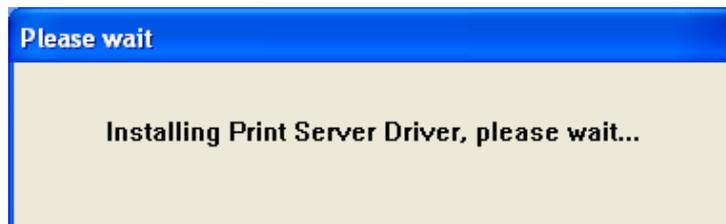
### 3.2.2 GDI/Host-based Printer

Following is the installation procedures for "GDI/Host-based Printer" installation.

1. Select the "GDI/Host-based Printer" and click "OK".



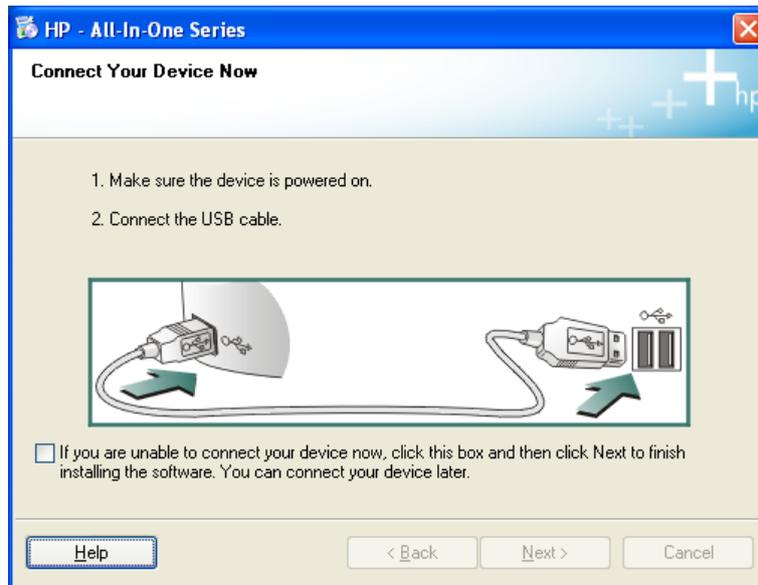
2. The program will start installing the Print Server Drivers automatically. You will see several pop-up screens and some prompt messages in the system tray. When the system stops prompting, the drivers are all installed. Please wait for a moment.



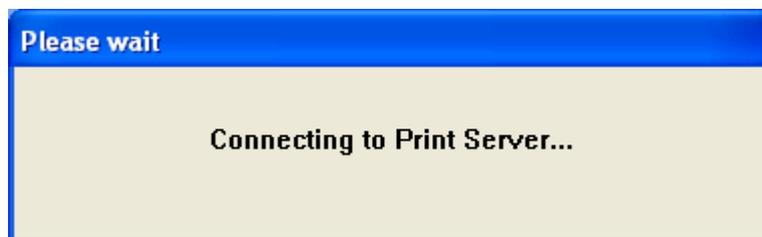
3. When the Print Server Drivers are all installed, the following screen is displayed. Before you click "Connect", please put your GDI printer's installation CD to your CD-ROM drive and read the manual of the GDI printer carefully.

Some GDI printers require users to install the drivers/utilities before connecting the GDI printer to your computer. Some GDI printers require connecting the GDI printer to your computer during the installation. Please refer to the below illustration which is the screen displayed during the installation.

To connect the GDI printer to your computer through the Print Server just like you have directly connected the GDI printer to your computer through the USB cable, you can click "Connect".



4. The system starts to connect the printer that connected on print server and automatically search and install the GDI printer's driver.



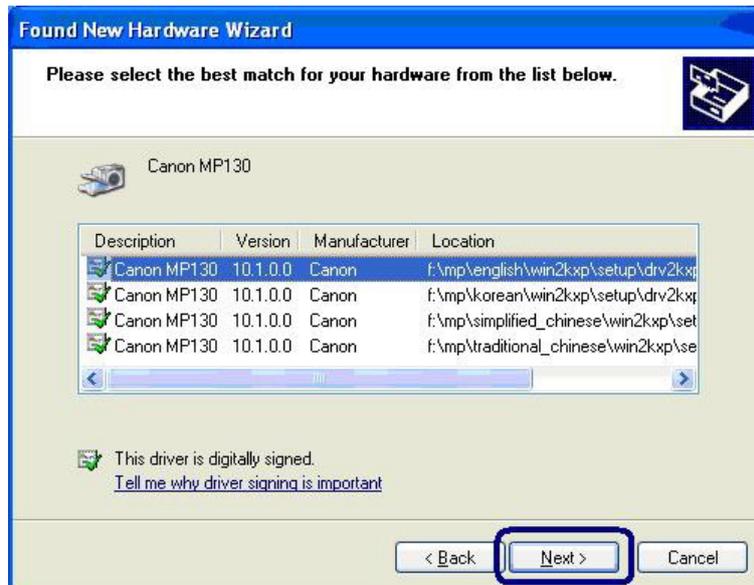
5. You will see some prompt messages in the system tray. If there is driver needed you to manually install. In the "Found New Hardware Wizard", please select "No, not this time" and click "Next" to continue.



6. Select "Install the software automatically (Recommended)" and click "Next".



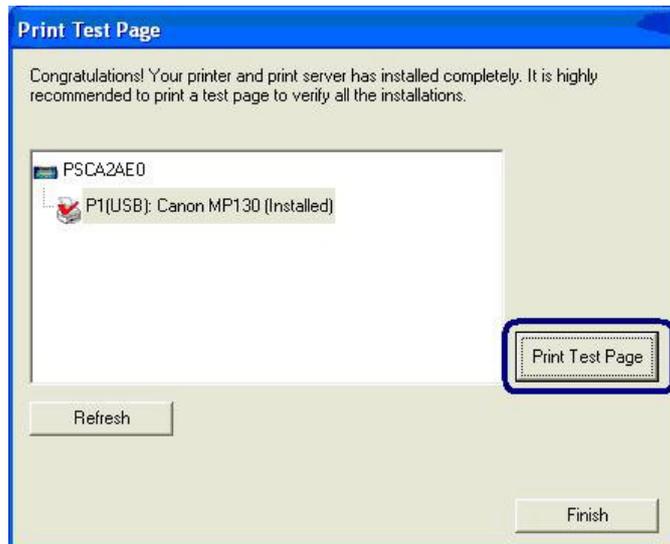
7. Select the correct driver and click "Next".



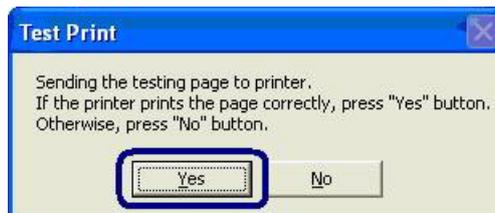
8. After the driver is installed, click "Finish".



9. After the driver installed completely (no more prompt message). Your GDI printer has been found with the Print Server to your computer. Please click "Print Test Page" to confirm that you can print through the network successfully.



10. If you have completed the print job successfully, please click "Yes". Or click "No" to try to install again.



11. Congratulations, the printer is installed successfully. The installed printer will be added to the "Printers & Faxes" in the Windows. If you want to print documents, please select "Printer Model Name(Network)".



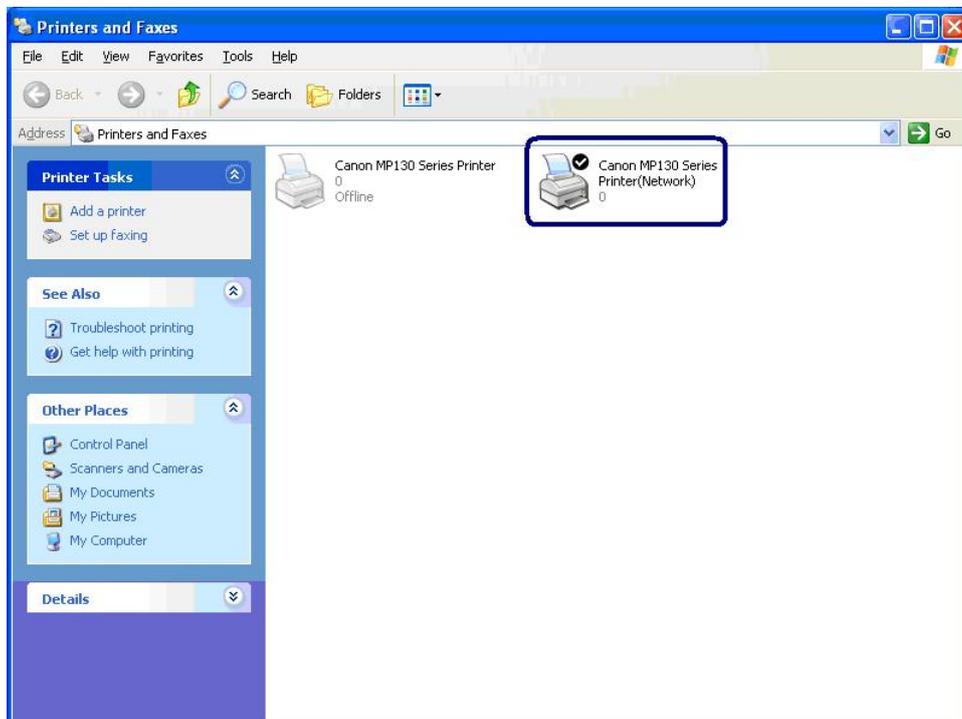
12. The following message will alert you to restart your computer before you start using the network printer. Click "OK" and restart your computer then all installations are completed.



### 13. Using GDI Printer

After restarting the computer, you will find there are two printer icons added to "Printers and Faxes" in the Windows. The "Printer Model Name (Network)" will stand for the printer.

If you want to print a file or document, please print to "Printer Model Name (Network)". To set the paper size or other feature of the printer, please right click "Printer Model Name (Network)" and select "Properties". In the "Printer Model Name (Network) Properties" screen, click "Printer Properties" then you can configure the printer.





### 3.3 Print Server Utilities

After the installation is completed, there will be four utilities add to “Start→All Programs→Print Server Utilities” folder in the Windows.



**Setup Wizard** – If you don't install the printer during the software installation in Section 3.2, you can run this setup wizard to install the printer drivers and bind the Print Server to your computer.

**Network Port Setup** – Allows you to add network port of the print server to your computer.

**Server Manager** – Allows you to configure the Print Server's IP Address, network protocols and other advanced features.

**Uninstall** – Assistant for removing all installed Print Server software programs.

## 4. Setup Wizard

The "Setup Wizard" will guide you to install the printer or GDI printer with the FPS-1011 into your computer.

If there is a new GDI Print Server installed in the network or the GDI Print Server you have installed doesn't work, please run the "Setup Wizard" to install again. Please refer to the Section 3.2 for the detailed setup procedures.

---

 **Note**

In Windows 98SE/Me/NT, the "Setup Wizard" will only allow you to install "General Printer".

---



## 5. Network Port Setup

"Network Port Setup" Utility offers a very simple method to add or remove GDI Print Server's printer port from the client's computer.

During the GDI Print Server's installation procedure, the "Setup Wizard" will automatically add the printer port of the GDI Print Server you have selected to user's computer (see below).

If you have just installed another new GDI Print Server in the network, you can run "Setup Wizard" or run this program. This program will search for new GDI Print Servers and allow you to add the new network printer port into your computer conveniently. Perform the standard Add Printer procedure then you can print directly to the printer through the newly installed GDI Print Server.

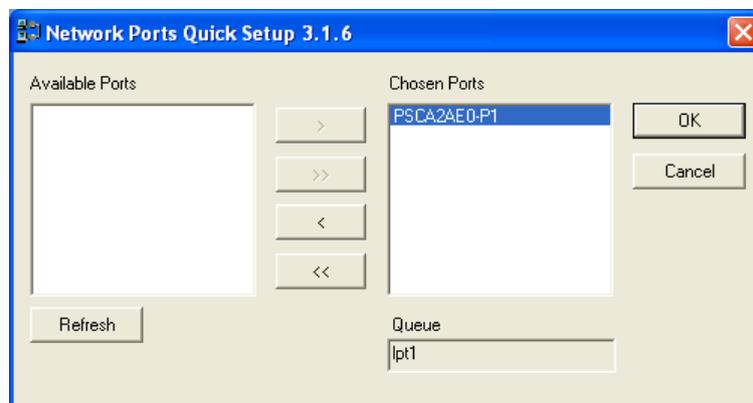
Select the network ports in the "Available Ports" list and click ">" to add ports. If you want to add all available ports, please click ">>". To cancel some of the network ports or all ports from the "Chosen Ports" list, please click "<" or "<<".

 **Note**

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Please be aware that Network Port Setup Utility can only detect and configure all GDI Print Servers within the same network; it cannot search and configure the GDI Print Servers on other subnets across network segments.

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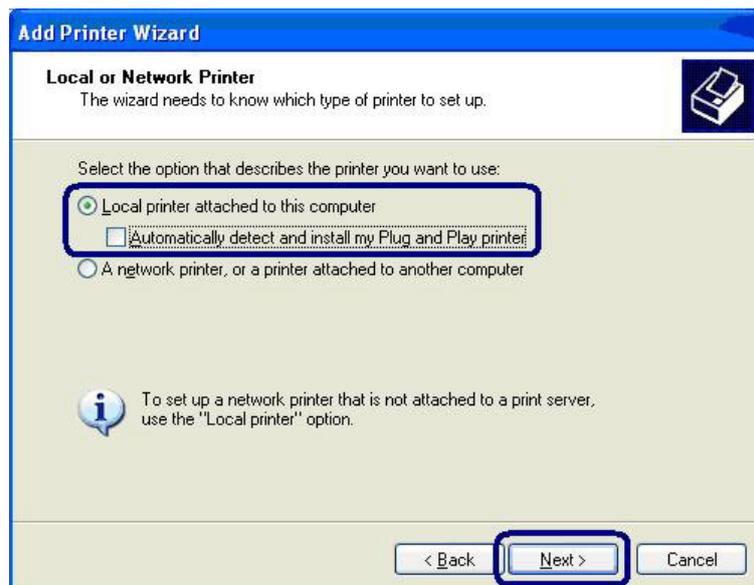
### 5.1 Add Printer

After adding a "Network Port" of the GDI Print Server to your computer, you can follow the procedure described below to add printer to the Windows.

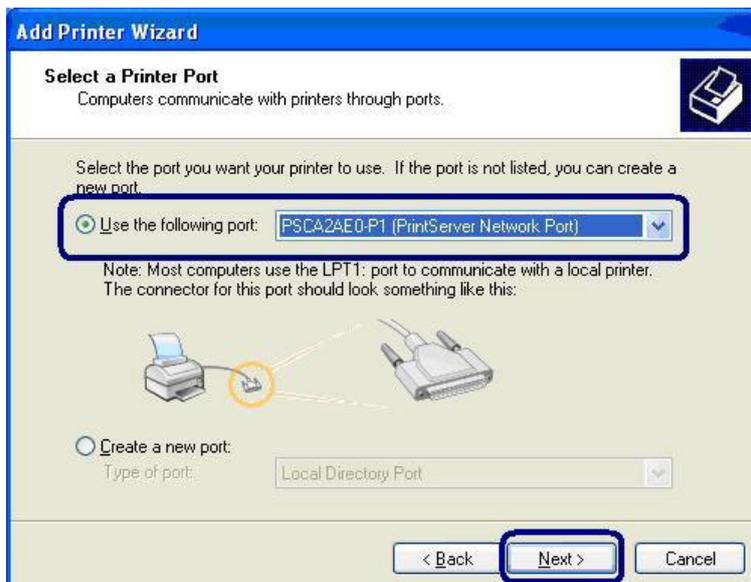
1. Click "Start", choose "Settings" and select "Printers and Faxes".
2. Click "Add a Printer".
3. The "Add Printer Wizard" is displayed. Click "Next".



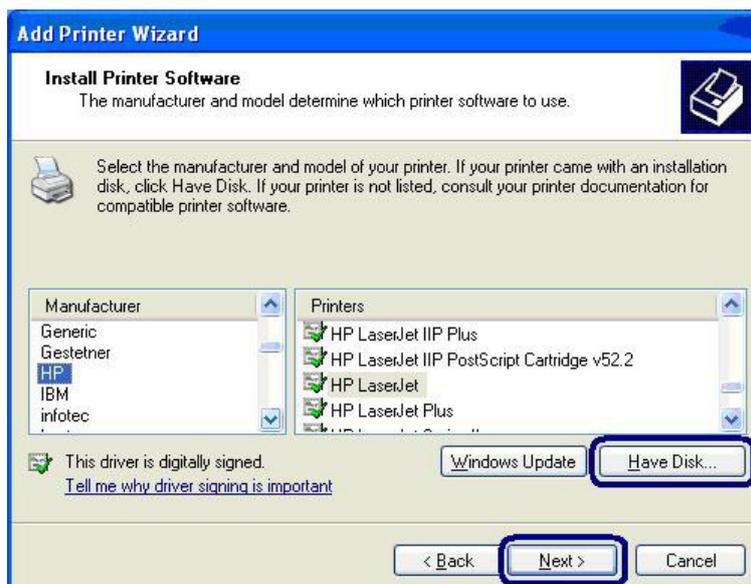
4. Select "Local printer attached to this computer" and make sure that "Automatically detect and install my Plug and Play printer" is not selected. Click "Next".



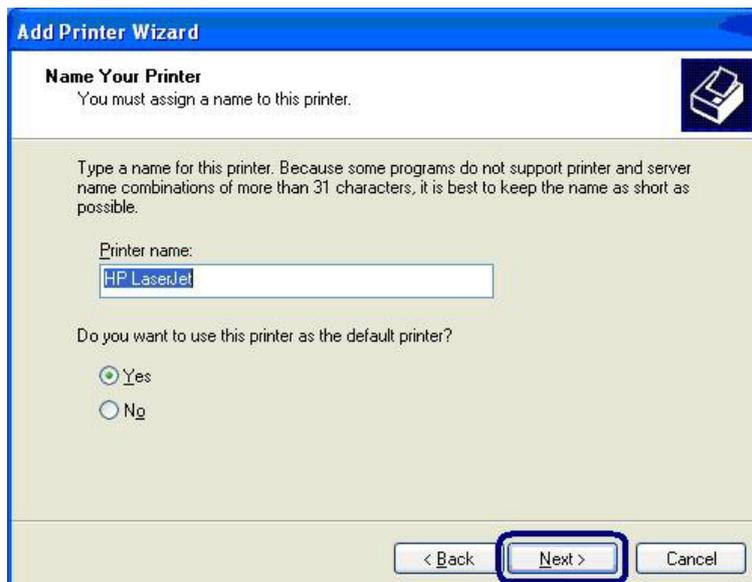
5. Choose the suitable "Print Server Network Port" and click "Next".



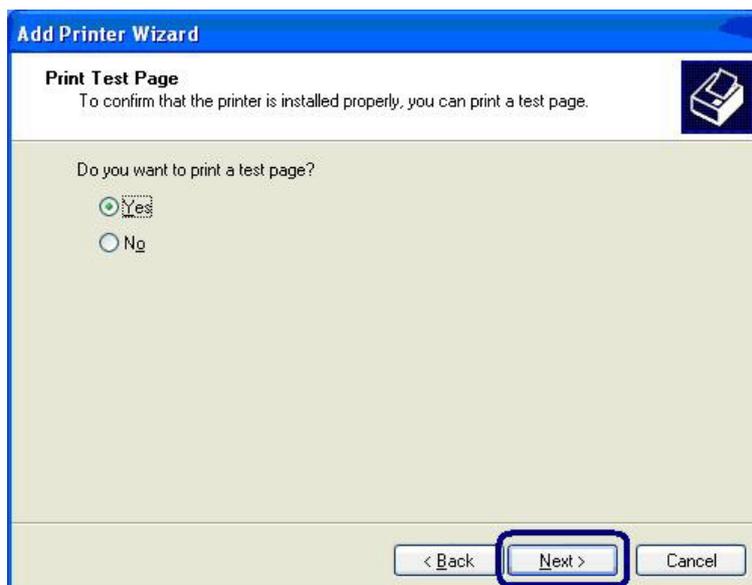
6. Select the printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk..." to install the driver of the printer. After installation, the printer model will be added to the list.



7. Name your printer and setup the default printer, click "Next".



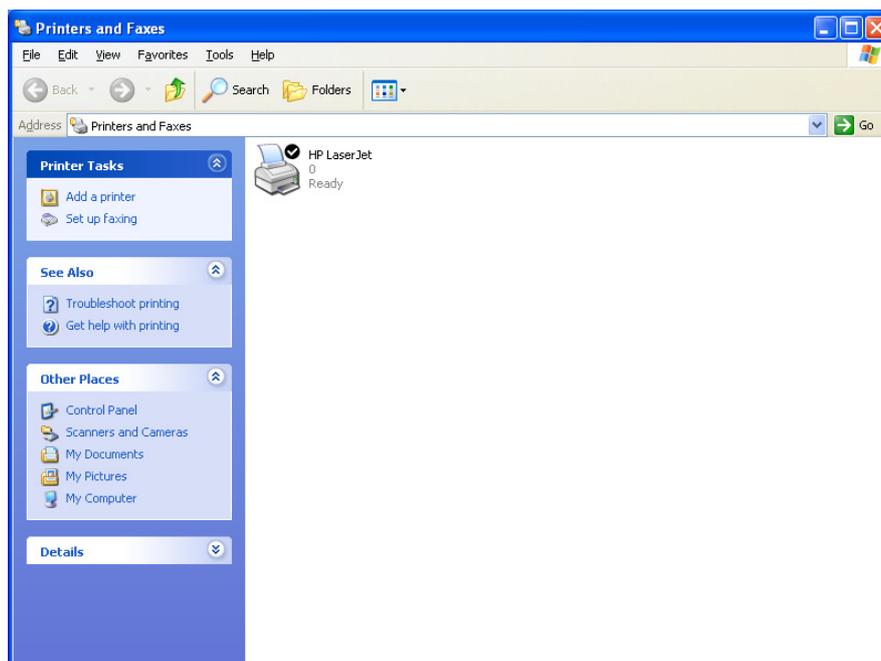
8. Choose to print the test page or not. It is recommended to print a test page. Click "Next".



9. You have added the printer to the PC successfully. The information of the printer is displayed in the windows. Click "Finish".



10. The drivers of the printer will be installed. After complete the installation, the printer has been added to your computer and acted as a sharable printer.



# 6. Server Configuration

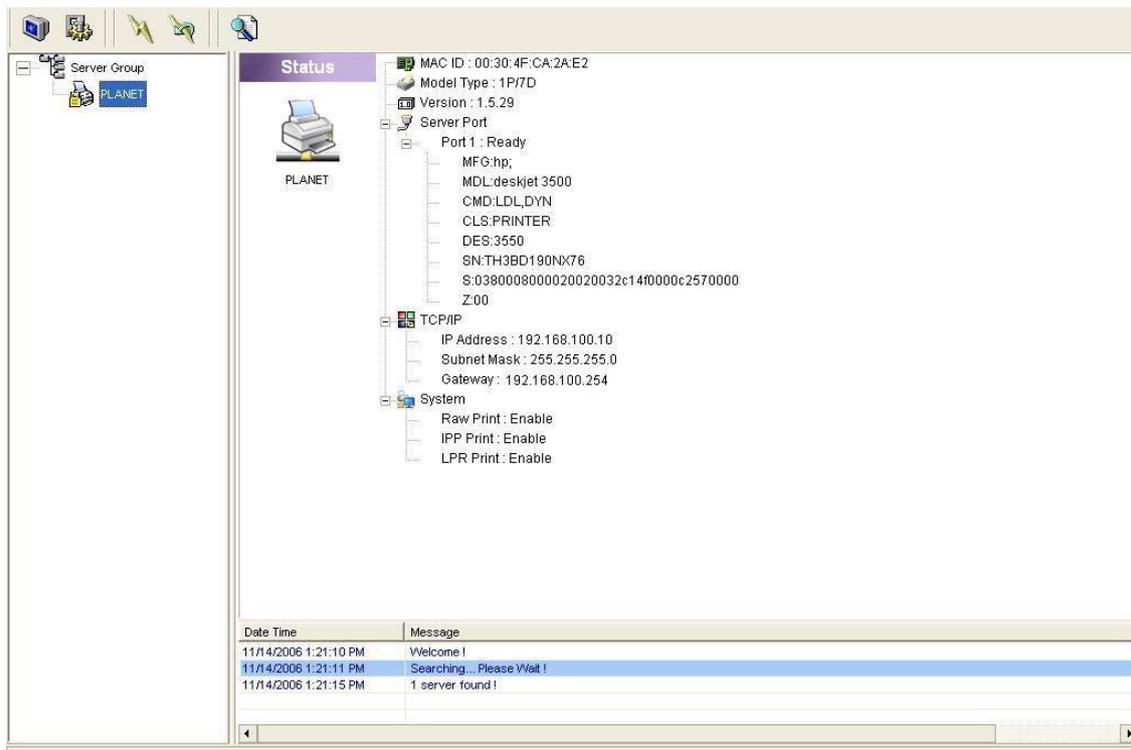
## 6.1 Introduction

This chapter introduces GDI Print Server's system configuration utility in Windows environment. This utility provides the most complete management and configuration functions on the GDI Print Server side. This utility only provides configuration functions for GDI Print Server itself; it does not include configuration functions for client side or other file server in the network environment.

The Configuration Utility provides the following configuration and management functions:

- **Search Print Server:** Search All Available GDI Print Servers on the Network.
- **Status:** Display GDI Print Server Network Status.
- **General Configuration:** Configure general settings about the GDI Print Server such as Server Name, Password, etc.
- **TCP/IP Configuration:** Static and auto IP address Configuration.
- **System Configuration:** GDI Print Server Network Ability Setting and Firmware Upgrade.

## 6.2 Search for All Available GDI Print Server

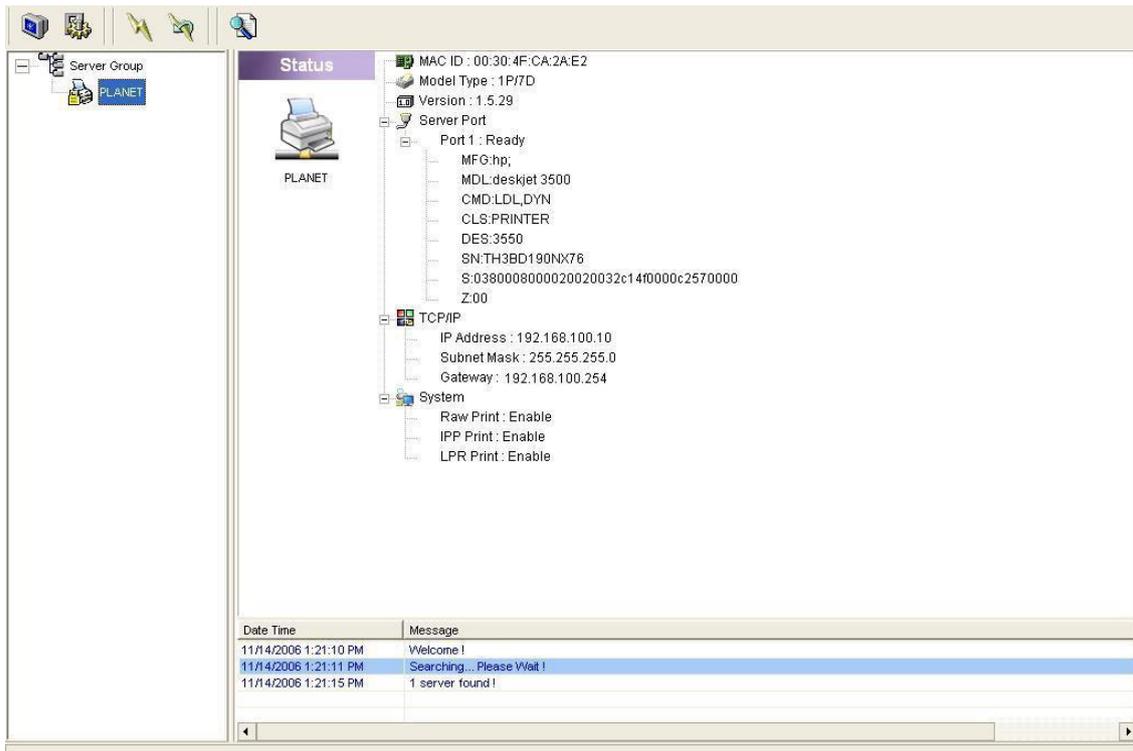


Every time when you run the "Server Manager" configuration utility, click the

"Search" icon  on the tool bar. The configuration utility will delay for several seconds because the utility is using system's available network protocols to search for all GDI Print Servers on the network. All available GDI Print Servers will be listed under "Server Group" on the left side of the window.

You must select the GDI Print Server you would like to configure from the list. The system will display the selected GDI Print Server's status on the right side of the window.

## 6.3 Status of GDI Print Server



Click "Status" icon  on the tool bar, the status of the currently selected GDI Print Server will be showed on the right side of the window. The information of the GDI Print Server display including MAC ID, Model Type, Firmware Version, status of each server port, IP address, subnet mask, default gateway and supported printing protocols...etc.

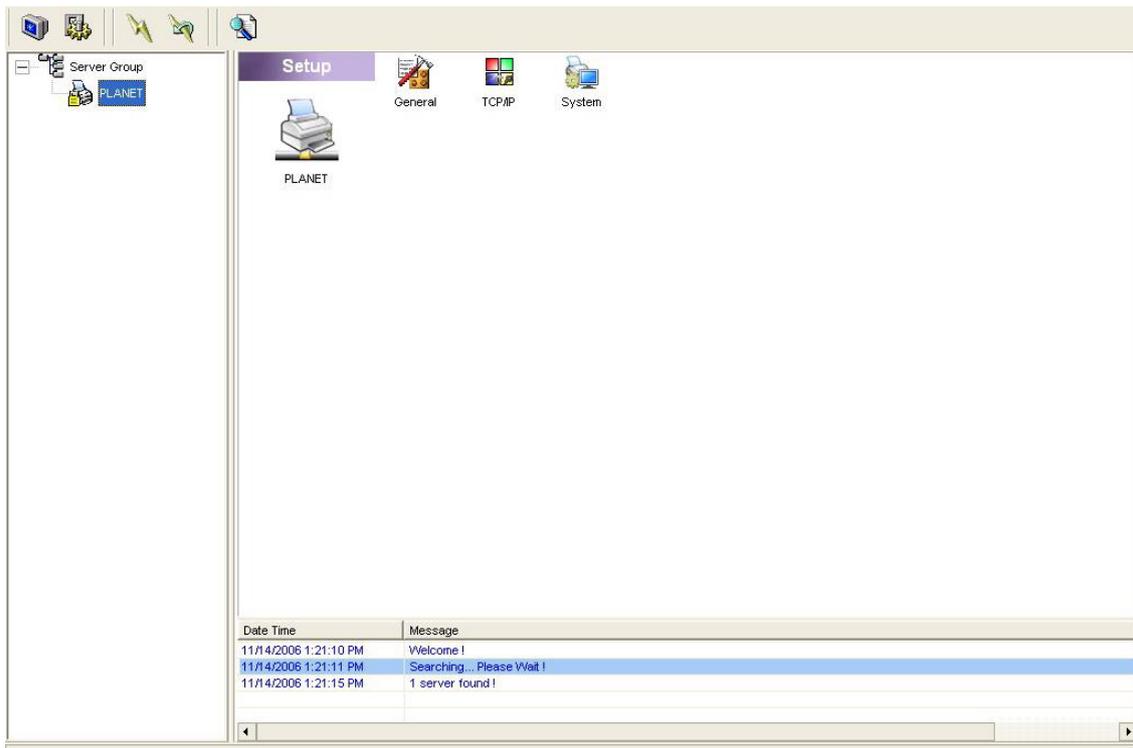
You can refresh the GDI Print Server's status by pressing the "Refresh" button



You can restart the GDI Print Server by pressing the "Reboot" button



## 6.4 Setup the GDI Print Server



Click "Setup" icon  on the tool bar, the setup items of the current selected GDI Print Server will be showed on the right side of the window.

Double click one of the icons to set up the selected GDI Print Server. A screen will pop up to verify "User Name" and "Password" of the GDI Print Server.

The default values are: **User Name: admin**      **Password: admin.**

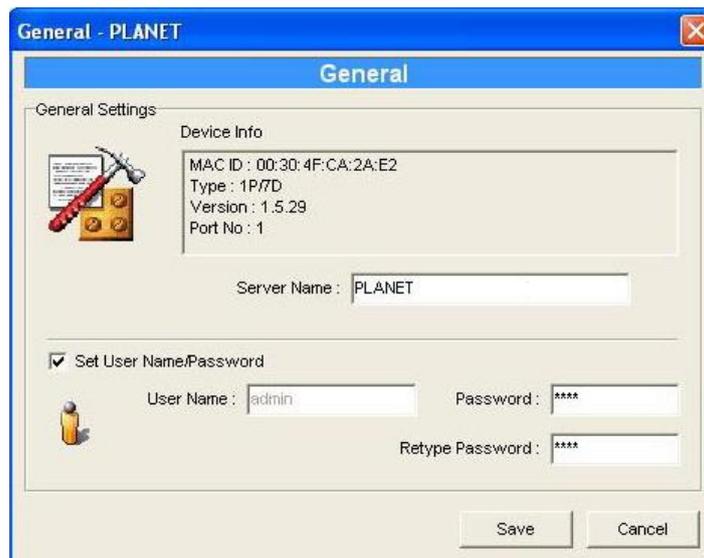
---

 **Note**

When you have finished the settings, please  click "" to restart the GDI Print Server to let the settings take effect.

---

## 6.5 General Configuration

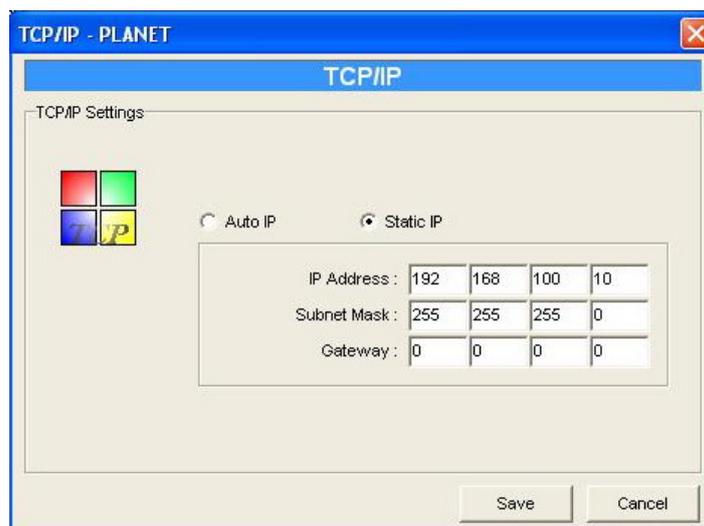


Double Click "General" icon and the General configuration window will pop-up. You can see basic GDI Print Server information in this page. You also can configure the "Server Name", "User Name" and "Password".

**Server Name** is the name of the GDI Print Server. You can use this name to identify the GDI Print Server when you are searching for the GDI Print Server by the "Server Manger" utility.

**User Name / Password** is used to authenticate the administrator to login the GDI Print Server for configuring it from the "Server Manger" utility or the Web Management tool.

## 6.6 TCP/IP Configuration



Double Click "TCP/IP" icon and the TCP/IP configuration window will pop-up. You can configure the GDI Print Server to automatically get IP from DHCP

server or manually specify static IP.

### IP Address Assignment:

Click the "IP" button to enter the IP setting page. If you need the GDI Print Server to automatically get an IP from DHCP server, select "Auto IP". You can also select "Static IP" to manually assign "IP Address", "Subnet Mask" and "Gateway" for the GDI Print Server. By default, "Static IP" is enabled and the default settings are as follows.

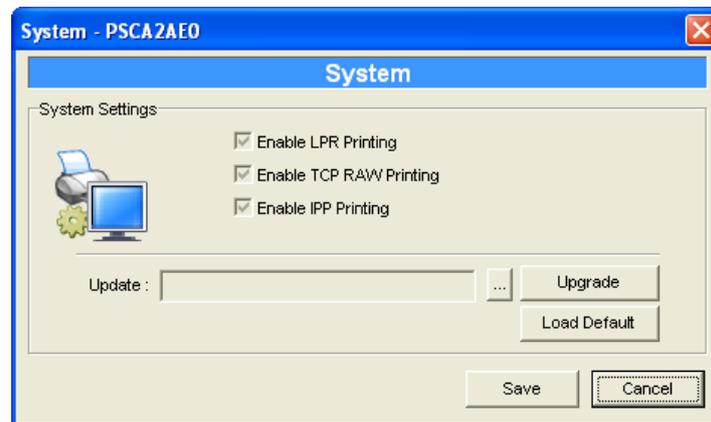
**IP Address: 192.168.0.1**

**Subnet Mask: 255.255.255.0**

**Auto IP** – The IP Address information of the GDI Print Server obtained from DHCP Server will be displayed in the address field.

**Static IP** – Manually assign the IP address information in the same network with your computer to the GDI Print Server.

## 6.7 System Configuration



Double Click "System" icon and the System configuration window will pop-up. In the System configuration page, you can see all available printing protocols and upgrade the new firmware for this GDI Print Server.

**Upgrade Firmware:** You can use this "Upgrade Firmware" tool to update the newest firmware of the GDI Print Server. Click "..." button and select the correct firmware in your PC. After selecting the firmware file, click the "Upgrade" button to finish the firmware update process.

---

#### Note

Before you upgrade the firmware, please make sure that the IP Address settings of the GDI Print Server are in the same network as your computer.

---

**Load Default:** If you want to reset the GDI Print Server to default factory settings, please click "Load Default".

# 7. Web Management

## 7.1 Introduction

GDI Print Server can be configured and managed on the Web. Through Local Area Network, or even Internet, administrator can easily configure and manage GDI Print Server's various main functions in browsers. Simply enter GDI Print Server's IP address into your browser's address field to manage a GDI Print Server by GDI Print Server's built-in Web Server.

The default IP Address, User Name and Password settings of the GDI Print Server are as follow.

**IP Address: 192.168.0.1**

**User Name: Admin**

**Password: admin**

## 7.2 Login

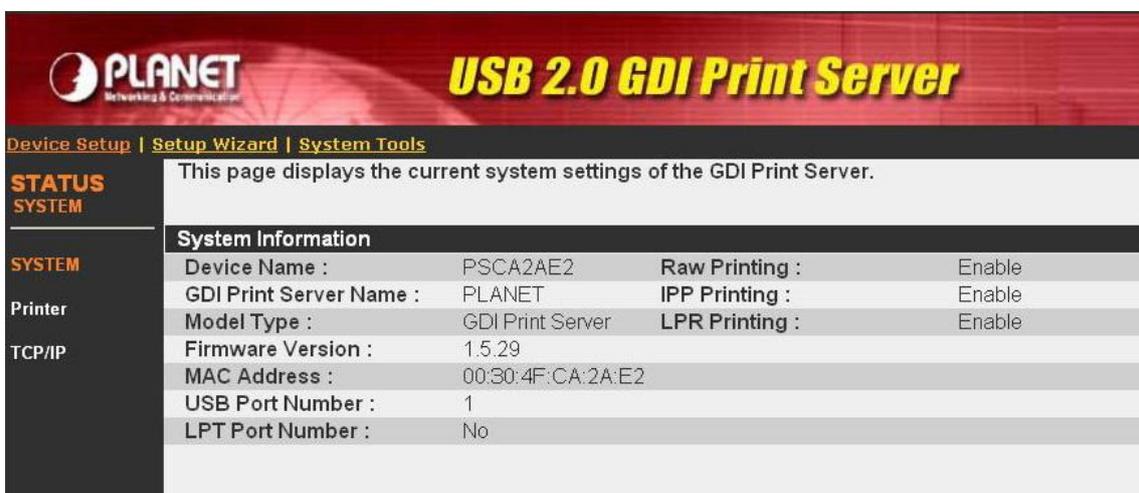
You may use any Web Browser to review the status or configure the settings of the GDI Print Server. After entering the IP address of the GDI Print Server, a login page display. You have to enter correct "User Name" and "Password" before going to the Web Management pages.

### Note

Default User Name is "admin", default password is "admin".

## 7.3 Device Setup

### 7.3.1 System



The screenshot shows the web management interface for the PLANET USB 2.0 GDI Print Server. The page title is "USB 2.0 GDI Print Server" and the PLANET logo is visible. The navigation menu includes "Device Setup", "Setup Wizard", and "System Tools". The "STATUS SYSTEM" section is active, displaying the current system settings. The main content area shows a table of system information.

System Information			
Device Name :	PSCA2AE2	Raw Printing :	Enable
GDI Print Server Name :	PLANET	IPP Printing :	Enable
Model Type :	GDI Print Server	LPR Printing :	Enable
Firmware Version :	1.5.29		
MAC Address :	00:30:4F:CA:2A:E2		
USB Port Number :	1		
LPT Port Number :	No		

This web page will display the information about the GDI Print Server.

**Device Name:** The device name is not configurable. By default, it is the last 6-digit of the MAC ID of the print server with prefix "PS".

**GDI Print Server Name:** The print server name is the same as device name by default. You can change this name to identify the print server easily when you are searching for the print server by the supplied utilities.

**Model Type:** Display the type of the print server.

**Firmware Version:** Display the firmware version of the GDI Print Server.

**MAC Address:** The MAC ID of the GDI Print Server will be displayed here

**USB Port Number:** Display the number of the USB port on the GDI print server.

**LPT Port Number:** Display the number of the parallel port on the GDI print server.

**RAW/IPP/LPR Printing:** By default, the RAW/IPP/LPR printing protocols are all enabled.

### 7.3.2 Printer



The screenshot shows the PLANET USB 2.0 GDI Print Server web interface. The top header features the PLANET logo and the product name "USB 2.0 GDI Print Server". Below the header, there are navigation tabs: "Device Setup", "Setup Wizard", and "System Tools". The main content area is titled "STATUS SYSTEM" and contains a message: "This page displays the information of each printer connected to the GDI Print Server." Below this message is a note: "Note: if your printer does not support bi-directional function, some information will not be displayed correctly." The interface then displays a table for "Printer 1" with the following details:

Printer 1	
Manufacturer :	hp
Model Number :	deskjet 3500
Printing Language Supported :	LDL,DYN
Current Status :	Ready

This page lists the information and the status of the printer connected to the GDI Print Server USB port. The printer information includes manufacturer, model number and the supported printing language. The status of the printer include "Ready", "Off Line" or "Paper Out".

**Ready:** The printer is ready to use.

**Off Line:** The printer is not connected to GDI Print Server through USB cable or it is turned off.

**Paper Out:** The printer is not ready because of paper out.

## 7.3.3 TCP/IP

The screenshot shows the configuration interface for the PLANET USB 2.0 GDI Print Server. The top navigation bar includes 'Device Setup', 'Setup Wizard', and 'System Tools'. The left sidebar has 'STATUS SYSTEM' selected. The main content area displays the current TCP/IP settings:

TCP/IP Settings	
Use DHCP/BOOTP :	Off
IP Address :	192.168.100.10
Subnet Mask :	255.255.255.0
Gateway :	192.168.100.254

This page lists all TCP/IP settings of the GDI Print Server.

**Use DHCP/BOOTP:** If the GDI Print Server enables to obtain IP Address from DCHP Server, it will show "On". Otherwise, it will show "Off".

**IP Address:** Display the IP Address of the GDI Print Server.

**Subnet Mask:** Display the subnet mask setting of the GDI Print Server.

**Gateway:** Display the gateway setting of the GDI Print Server.

## 7.4 Setup Wizard

### Note

After you have changed the settings from the Setup Wizard, please click "Save Settings" in the menu of the left side to let the settings take effect and reboot the GDI Print Server.

### 7.4.1 System

The screenshot shows the configuration interface for the PLANET USB 2.0 GDI Print Server. The top navigation bar includes 'Device Setup', 'Setup Wizard', and 'System Tools'. The left sidebar has 'SETUP SYSTEM' selected. The main content area displays the System Settings form:

This Menu allows you to configure general system settings of the GDI Print Server.  
Click "Save and Next" to continue.

**System Settings**

GDI Print Server Name :	<input type="text" value="PLANET"/>
Password :	<input type="password" value="••••"/>
Re-type Password :	<input type="password" value="••••"/>

You can change the server name and password of the GDI Print Server from here.

**GDI Print Server Name:** The name of the GDI Print Server. You can change this name to identify the print server easily when you are searching for the print server by the supplied utilities.

**Password:** Enter new password of the GDI Print Server. The password can be up to 7-digit alphanumeric format.

**Re-type Password:** enter the same password for the GDI Print Server again.

### 7.4.2 TCP/IP



You can configure the GDI Print Server to automatically get IP from DHCP server or manually specify static IP.

If you need the GDI Print Server to automatically get an IP from DHCP server, select "Enable Obtain TCP/IP Settings Automatically (Use DHCP/ BOOTP)". You also can select "Disable Use the following TCP/IP Settings" to manually assign "IP Address", "Subnet Mask" and "Gateway" for the GDI Print Server.

### 7.4.3 Save Settings



After configuring the GDI Print Server, you have to click the "Save Settings" to save the settings and restart the system.

# 7.5 System Tools

## 7.5.1 Load Default



You can use this page to restore the factory default settings. Click "OK" and after the print server is restarted, the process is completed. Be aware that all of your previous setup will be cleared.

## 7.5.2 Upgrade Firmware from Browser



You can upgrade new firmware for this GDI Print Server in this page. Click "Browse" to select the new firmware in your storage and then click "OK", the firmware will be updated in several minutes.

Be aware that if you have started upgrading firmware, you have to follow all the upgrading steps or the GDI Print Server can't turn back to normal configuration.

## 8. LPR Printing

LPR Printing (Line Printer Remote technology) allows users to connect to printers via TCP/IP for printing sharing. The computer with Windows 98SE/Me/NT/2000/XP/2003 operating system can use the protocol to share printing in the network. GDI Print Server can support LPR printing by default.

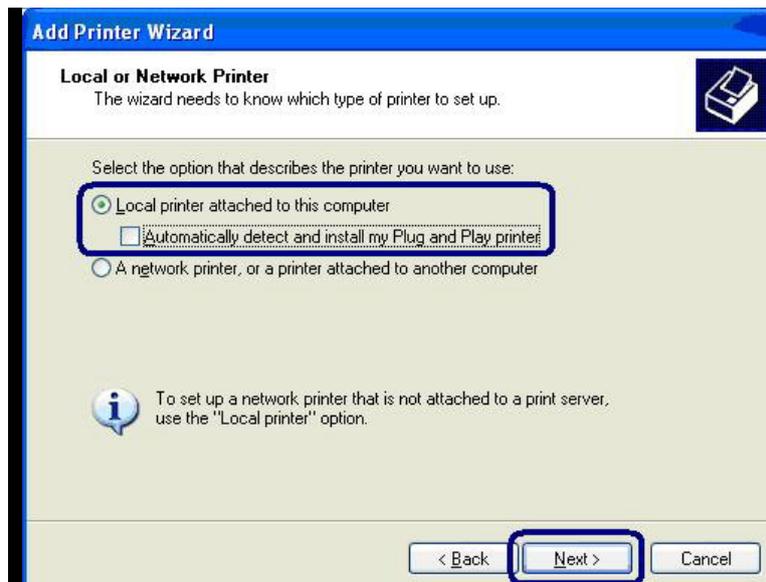
The GDI Print Server provides a tool "Network Port Setup" that helps to add the LPR protocol to users' computer (add network port to user's computer) easily in Windows 98SE/Me/NT/2000/XP/2003.

To configure the LPR setting by following standard LPR settings in Windows 2000/XP/2003, please follow the steps below.

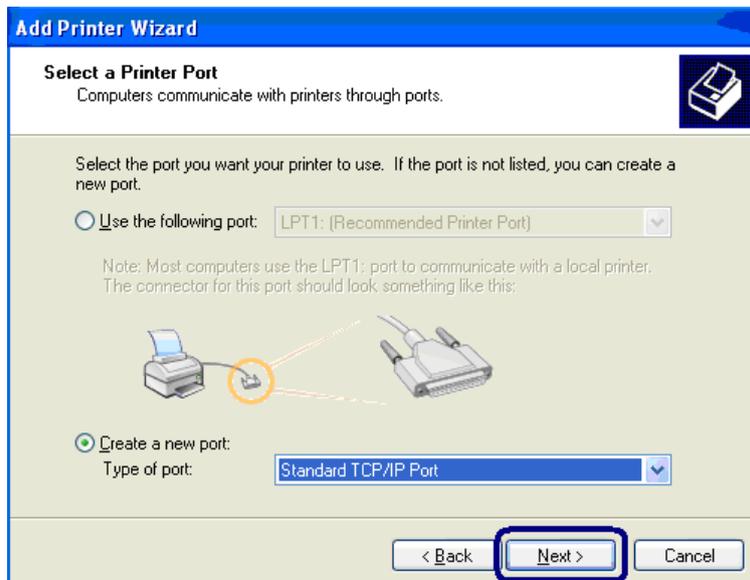
1. Click "Start", and select "Printers and Faxes".
2. Click "Add a Printer".
3. The "Add Printer Wizard" is displayed. Click "Next".



4. Select "Local Printer attached to this computer" and click "Next".



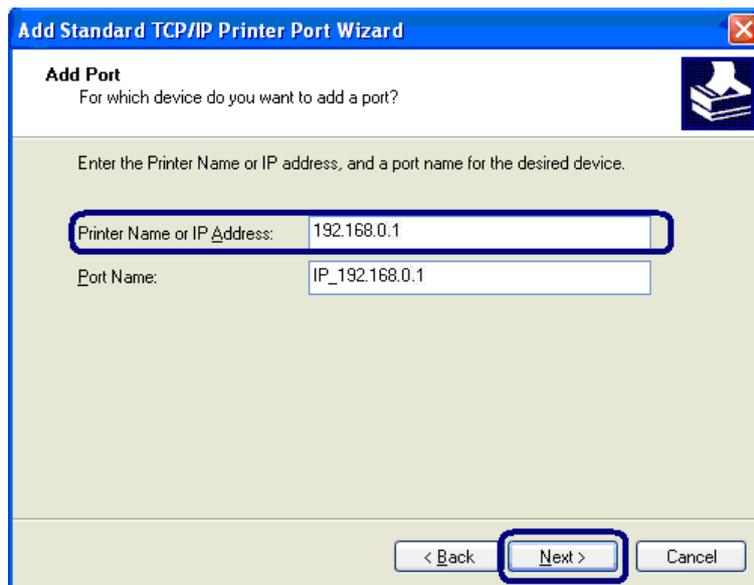
5. Choose "Create a new port" and "Standard TCP/IP Port". Click "Next".



6. Please make sure that the GDI Print Server and the printer have turned on and connected to the network correctly before you continue. Click "Next".



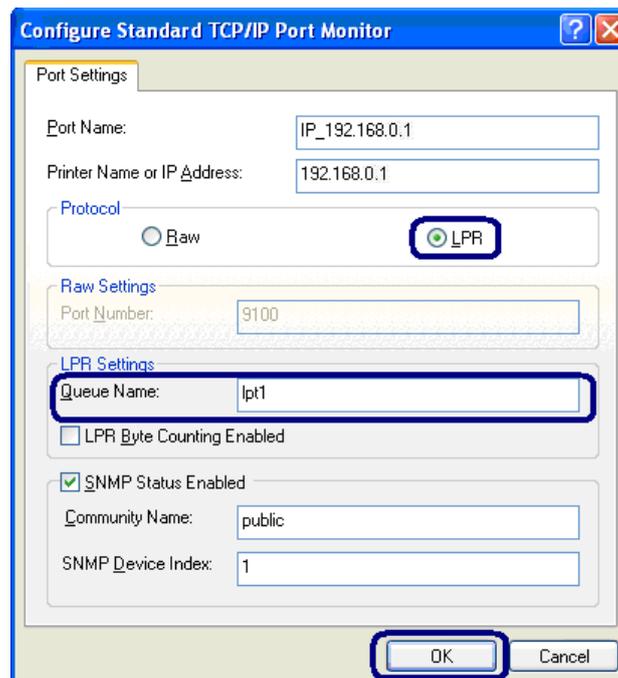
7. Enter the IP Address of the GDI Print Server in the "Printer Name or IP Address". Click "Next".



8. Select "Custom" and click "Settings". When you have finished the settings at step 9, click "Next" to continue.



9. Select "LPR" and enter "lpt1" in the "Queue Name", click "OK". By default the queue name of the GDI Print Server is "lpt1".



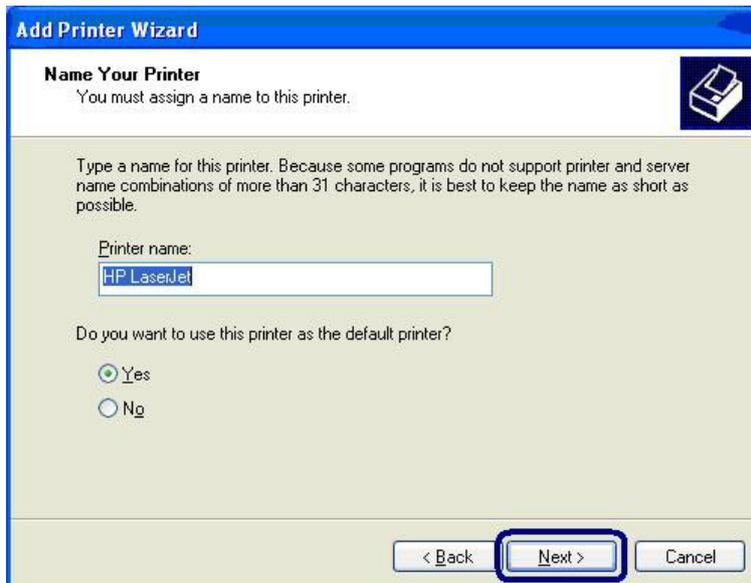
10. Click "Finish".



11. Select the printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk..." to install the driver of the printer. After installation, the printer model will be added to the list.



12. Choose to set the print whether as a default printer or not. Click "Next".



13. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click "Finish".



## 9. RAW Printing

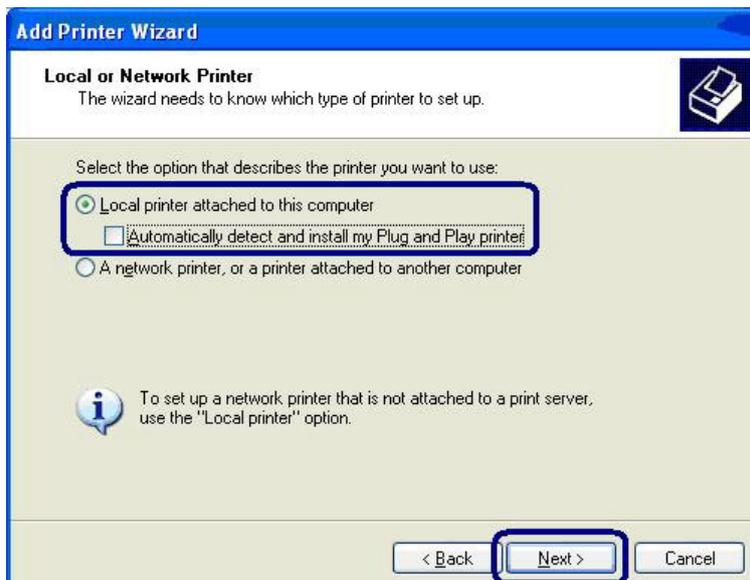
RAW Printing allows users to connect to printers via TCP/IP for printing sharing. The computer with Windows 2000/XP/2003 operating system can use the protocol to share printing in the network. GDI Print Server can support RAW printing by default.

To configure the RAW setting in Windows 2000/XP/2003, please follow the steps below.

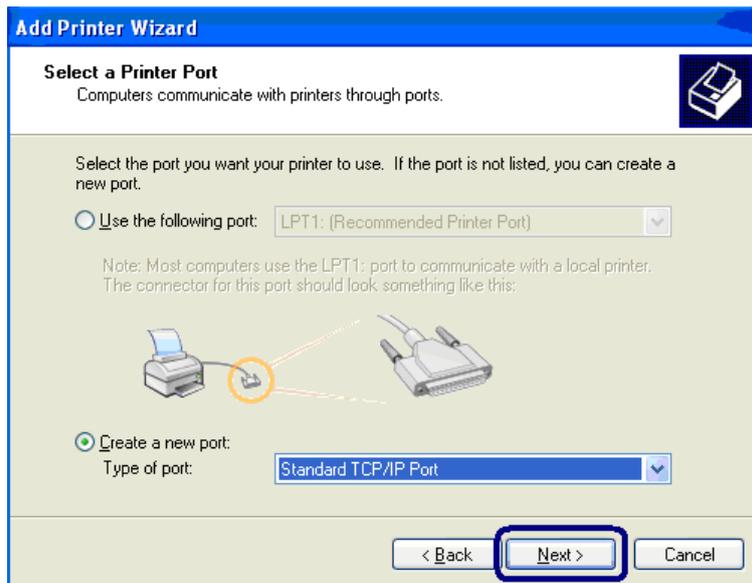
1. Click "Start", and select "Printers and Faxes".
2. Click "Add a Printer".
3. The "Add Printer Wizard" is displayed. Click "Next".



4. Select "Local Printer attached to this computer" and click "Next".



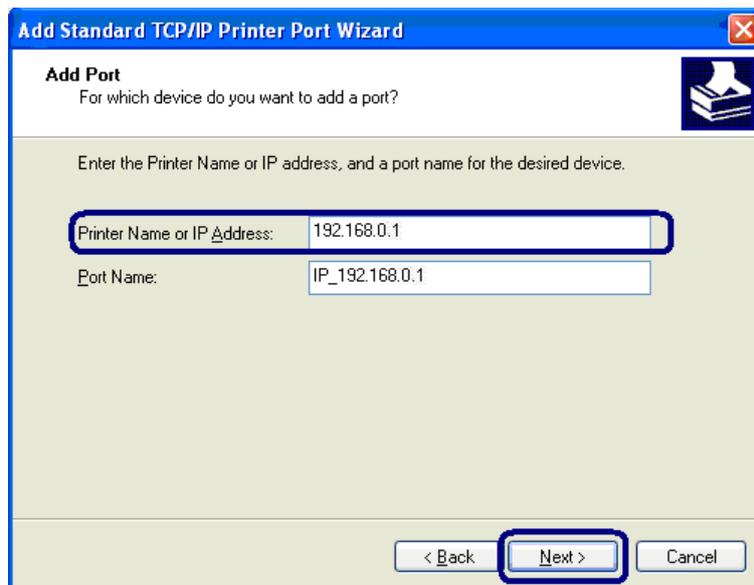
5. Choose "Create a new port" and "Standard TCP/IP Port". Click "Next".



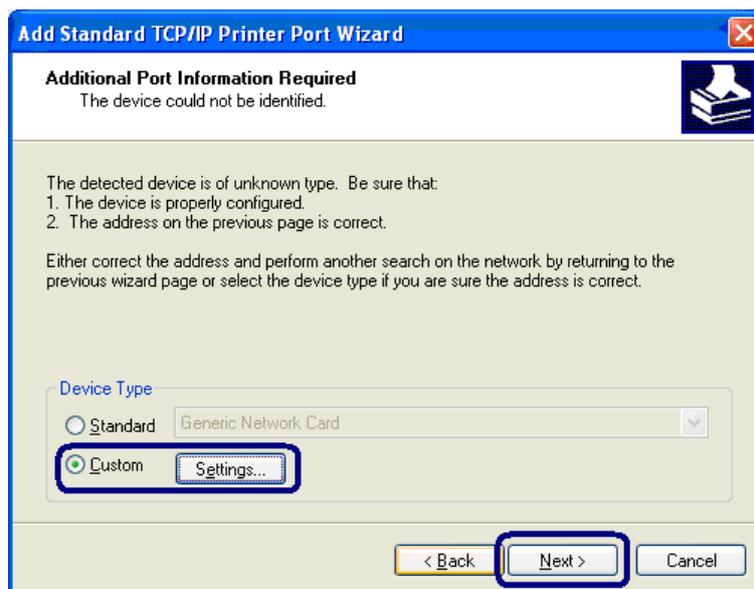
6. Please make sure that the GDI Print Server and the printer have turned on and connected to the network correctly before you continue. Click "Next".



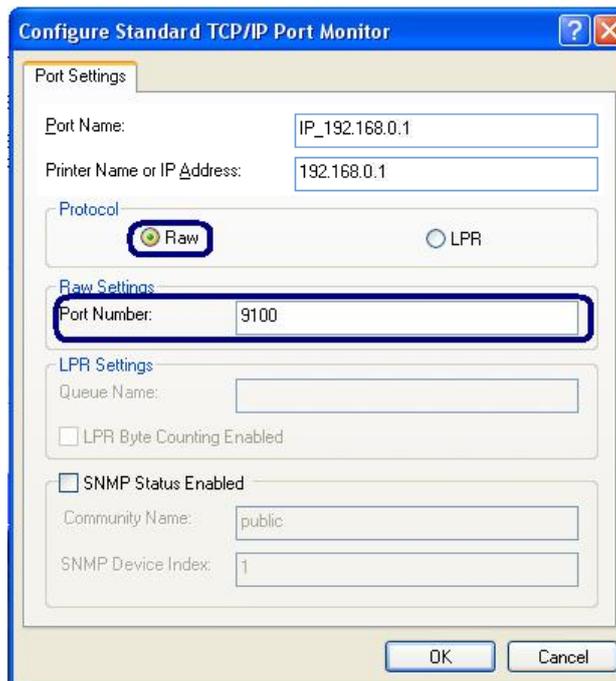
7. Enter the IP Address of the GDI Print Server in the "Printer Name or IP Address". Click "Next".



8. Select "Custom" and click "Settings". When you have finished the settings at step 9, click "Next" to continue.



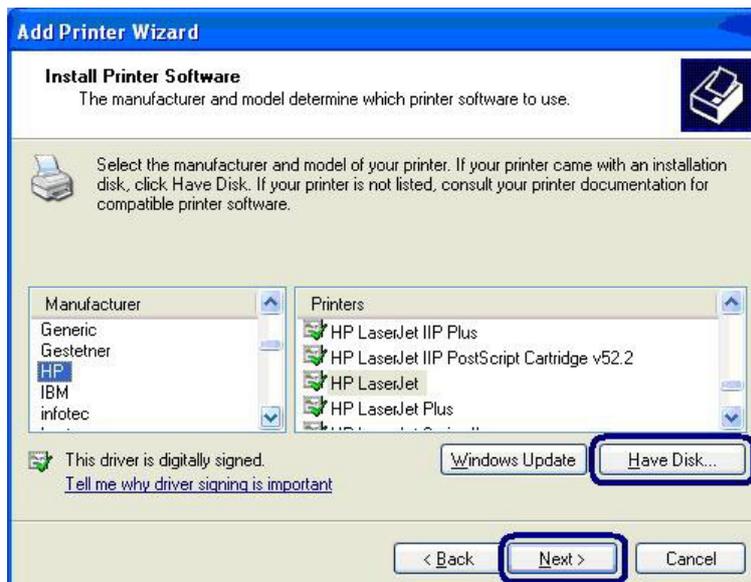
9. Select "RAW" and enter "9100" in the "Port Number", click "OK".



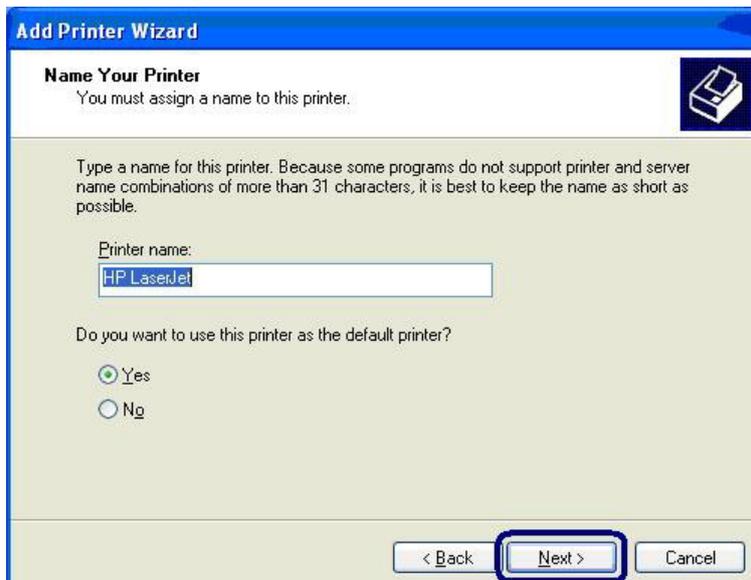
10. Click "Finish".



11. Select the printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk..." to install the driver of the printer. After installation, the printer model will be added to the list.



12. Choose to set the print whether as a default printer or not. Click "Next".



13. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click "Finish".



# 10. IPP Printing

## 10.1 Introduction

IPP (Internet Printing Protocol) Printing provides a convenient way of remote printing service by TCP/IP. The GDI Print Server can support IPP printing in Windows 2000/XP/2003 by default. By using the IPP printing, you can share the printer to all the PC's that can access the GDI Print Server by IP. You can even share your printer to Internet users.

## 10.2 System Setup

### 10.2.1 GDI Print Server Side

It is needless to do any setting on the GDI Print Server side. Make sure the GDI Print Server has correct IP settings. If you want to share the printers to Internet users, you have to set a real IP to the GDI Print Server. You also have to make sure that any gateway, router or firewall does not block IPP protocol if you have these gateway devices installed in your network.

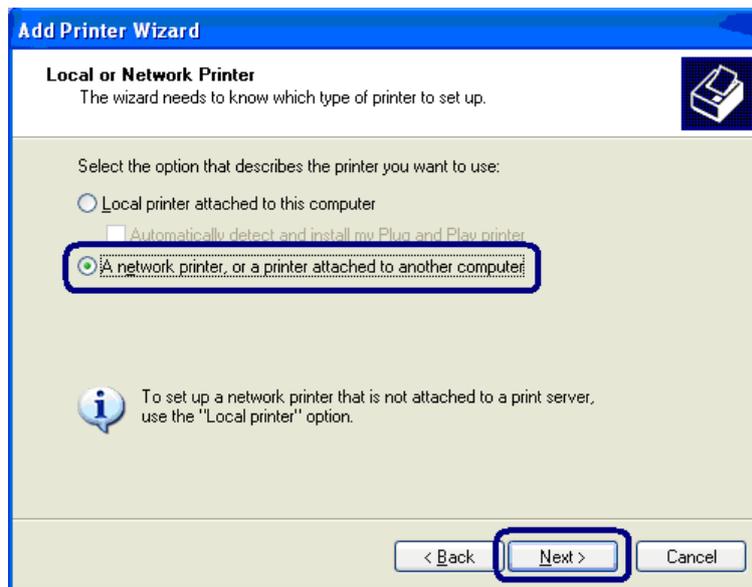
### 10.2.2 Client Side

You only need to perform Window's standard **Add New Printer** procedure.

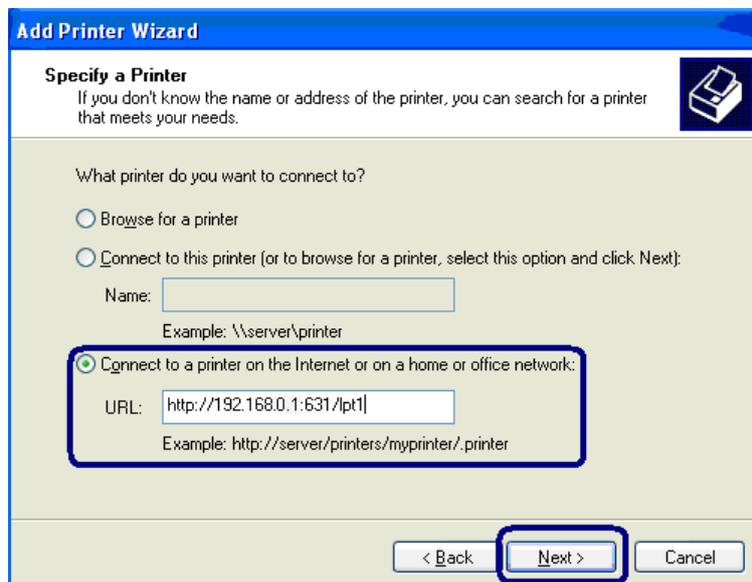
1. Click "Start", and select "Printers and Faxes".
2. Click "Add a Printer".
3. The "Add Printer Wizard" is displayed. Click "Next".



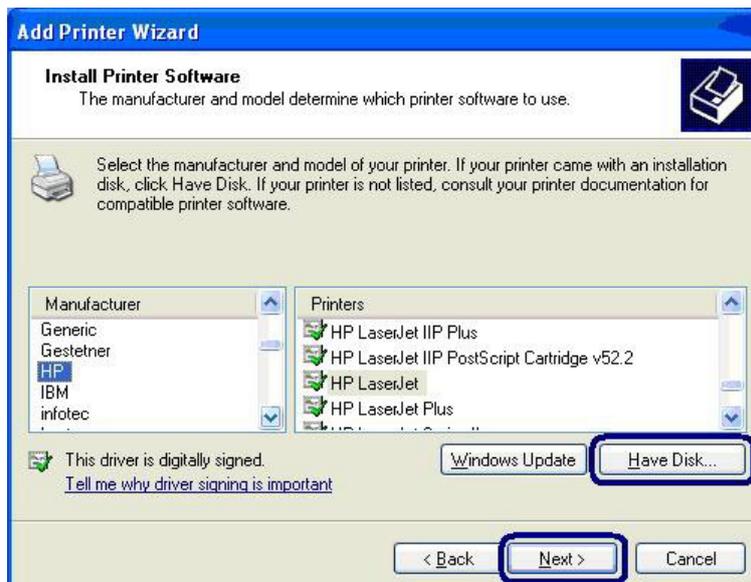
4. Select "A network printer, or a printer attached to another computer". Click "Next".



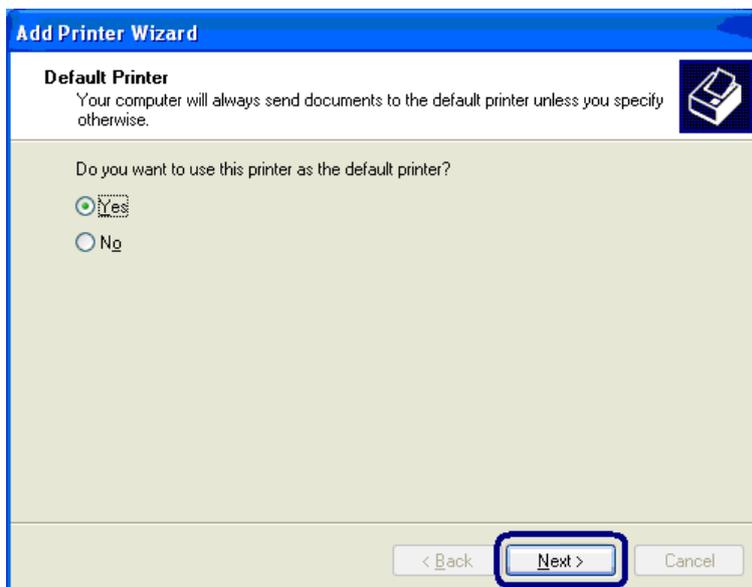
5. Select "Connect to a printer on the Internet or on a home or office network" and enter the URL of GDI Print Server. The URL format is "http://IP:631/Port Name". The IP should be the GDI Print Server's IP. The number 631 is IPP standard port number. Port Name is the port name of GDI Print Server that your printer is connected to. The default port name is "lpt1". One example of the URL is http://192.168.0.1:631/lpt1. After entering the URL of GDI Print Server, click "Next".



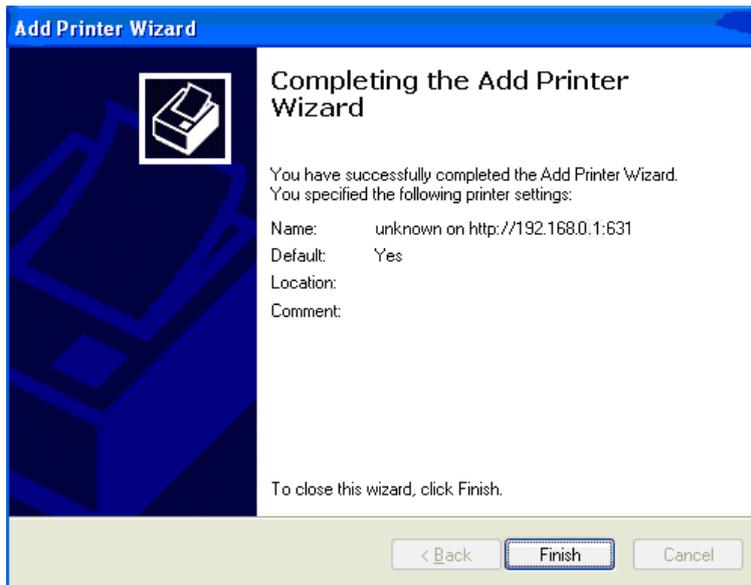
6. Select the printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk..." to install the driver of the printer. After installation, the printer model will be added to the list.



7. Choose to set the print whether as a default printer or not. Click "Next".



8. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click "Finish".

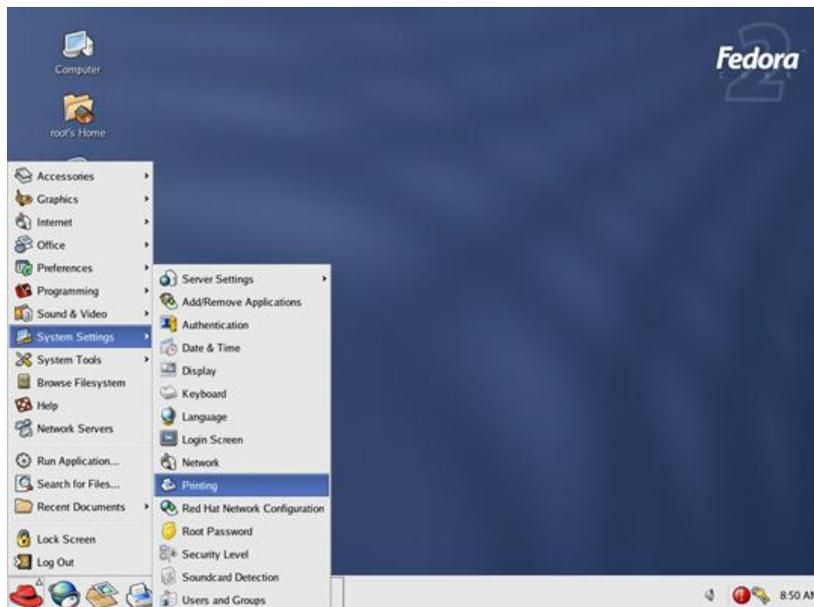


# 11.GDI Print Server Installation in UNIX/Linux

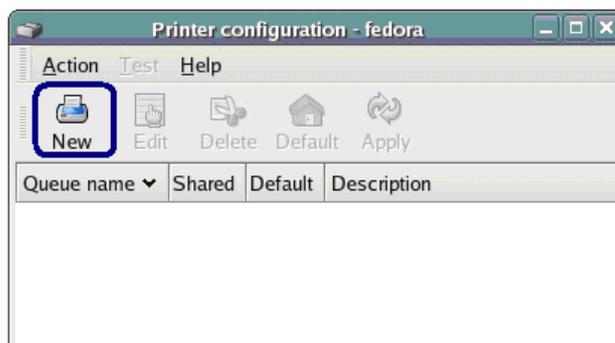
The GDI Print Server is available for TCP/IP printing by Unix/Linux LPD (Line Printer Daemon) protocol. This chapter explains how to set the GDI Print Server with the LPD protocol in the Unix/Linux system. Following describe two modes to configure the GDI Print Server. In the GUI Mode, we follow the settings in the Fedora Core 4 system. If you are in different system, you can refer to the configurations in the Console Mode.

## 11.1 GUI Mode

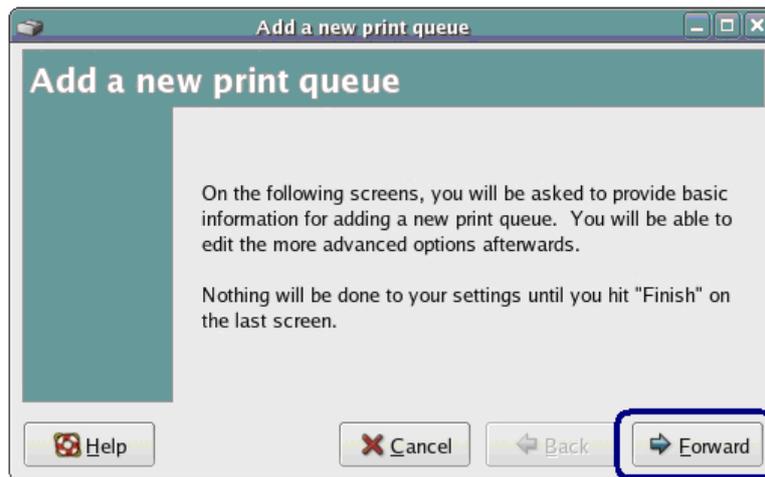
1. Select "Printing" from "System Settings".



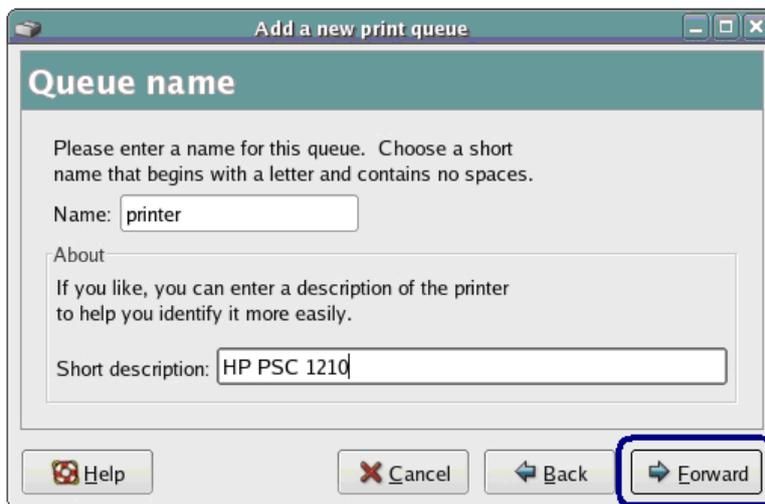
2. Click "New" to add the printer with the GDI Print Server.



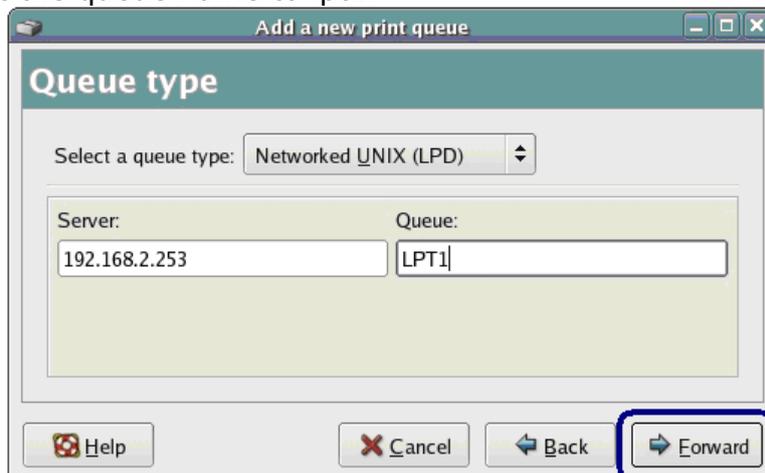
3. Click "Forward".



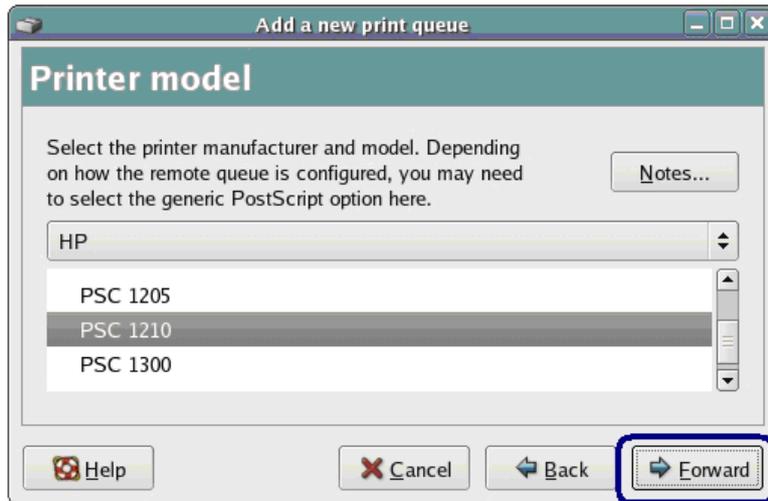
4. Set the printer queue name and the short description of the printer and click "Forward".



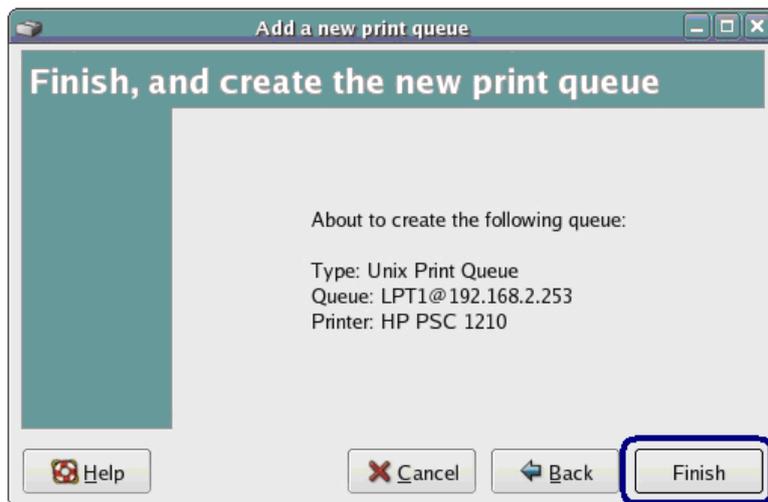
5. In the following screen, please configure as below. Then click "Forward" to continue.  
Select a queue type: Select "Network UNIX (LPD)" as the queue type.  
Server: Enter the IP Address of the GDI Print Server, for example: 192.168.2.253.  
Queue: Set the queue name to lpt1.



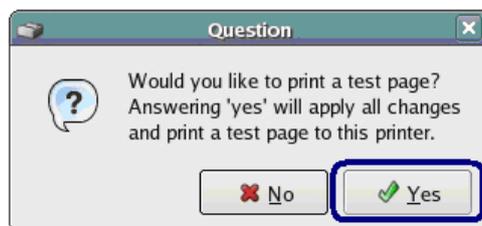
6. Select the printer manufacturer and model and click "Forward".



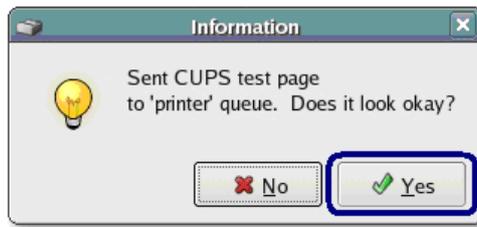
7. Please review the settings. If the settings are no problem, click "Finish"



8. To print a test page and apply all the settings, please click "Yes".



9. If the test page is printed without problem, please click "Yes". If it is failed to print, please click "No" to go back to "Printer configuration - fedora" screen and configure again.



## 11.2 Console Mode

To configure the GDI Print Server for LPD printing, perform the procedures below:

1. Enable GDI Print Server's TCP/IP Support.
2. Set up GDI Print Server's IP address.
3. Verify GDI Print Server's IP Address.
4. Configure remote LPD printing on the host.
5. Print a test page.

In the next sections, we will describe these five procedures step by step.

### 11.2.1 Enable GDI Print Server's TCP/IP Support

The default configuration of the GDI Print Server is with TCP/IP support enabled. Anyway, you can configure the GDI Print Server to enable TCP/IP support using the configuration program.

### 11.2.2 Setup GDI Print Server's IP Address

The GDI Print Server must have a unique IP address in order to be recognized by the network.

You can set up the IP address on the various Unix/Linux systems using any one of the following methods:

1. DHCP (Dynamic Host Configuration Protocol)
2. BOOTP (Bootstrap Protocol)

The GDI Print Server will use the last two methods to obtain its IP address automatically if its IP address is configured as Auto (0.0.0.0).

#### 11.2.2.1 DHCP

There are many Unix/Linux systems that support DHCP protocol, and the procedures to configure the DHCP server database are different. Please refer to the manual of Unix/Linux for the way to use different DHCP Server. It is highly recommended that the DHCP server should be located on the same network as the GDI Print Server.

#### 11.2.2.2 BOOTP

If you have the BOOTP daemon, `bootpd`, running on your UNIX/LINUX system that is accessible by the GDI Print Server, you can use the BOOTP protocol to set up the IP address of the GDI Print Server. We recommend that the BOOTP server should be located on the same subnet as the GDI Print Server. If you use Network Information Services (NIS) in your system, you may need to rebuild the NIS map with the BOOTP services before doing the following BOOTP configuration. To rebuild the NIS map, please refer to your system documentation.

To configure the IP address data for the BOOTP server, you will need to log in the host of BOOTP server as the superuser (`root`). Perform the following steps to

add address entries,

1. Optionally, assign a name corresponding to the GDI Print Server's IP address. You can add this address to the /etc/hosts file, by adding a line such as:

**203.66.191.12 pserver**

2. Add an entry to the host's /etc/bootptab file, similar to the following:

```
hostname:\  
:ht=1:\  
:ha=GDI_Server_ethernet_address:\  
:ip=GDI_Server_ip_address:
```

Lines should be indented with tabs.

Where hostname is the device name of a GDI Print Server, the ht=1 tag specifies the hardware type is Ethernet, the ha= tag specifies the Ethernet address of a GDI Print Server, which is the Node ID located on the GDI Print Server. The ha tag must be preceded by the ht tag. The ip= tag should correspond to the IP address you want to assign to the GDI Print Server.

For example, a GDI Print Server with the following configuration:

Node ID: 0000B4010101 (this implies Ethernet address is 00304F010101),  
IP address: 203.66.191.12

The entry for this GDI Print Server in the /etc/bootptab file should be:

```
MF010101:\  
:ht=1:\  
:ha=00304F010101:\  
:ip=203.66.191.12:
```

### 11.2.3 Verify GDI Print Server's IP Address

To verify your GDI Print Server is responding to the newly assigned IP address using a PING command:

```
ping ip-address
```

### 11.2.4 Configure Remote LPD Printing on the Host

The procedure you use to configure your Unix/Linux host(s) to allow printing to your network remote GDI Print Server varies between different varieties of Unix/Linux. The procedure below can be used for Unix/Linux variants that are related to BSD Unix, such as SunOS or Linux. For other versions of Unix/Linux, consult your system documentation, keeping in mind that:

1. The GDI Print Server should be treated as a BSD networked GDI Print Server host.
2. The host name should be the name (or IP address) that you have assigned to the GDI Print Server.
3. The printer name (or queue name) on the remote host should be lpt1, lpt2 or lpt3, the name of the printer port on the GDI Print Server.

You will need to perform the tasks below, logged in as the superuser (root). To configure your Unix/Linux host for printing,

1. Optionally, assign a name corresponding to the GDI Print Server's IP address. You can add this address to the `/etc/hosts` file, by adding a line such as:

```
203.66.191.186      pserver
```

2. Create a spool directory for the printer in the same directory where spool directories are normally kept on the machine, such as `/var/spool` or `/var/spool/lpd`:

```
mkdir /var/spool/lpd/pserverd  
chown daemon /var/spool/lpd/pserverd  
chgrp daemon /var/spool/lpd/pserverd  
chmod 775 /var/spool/lpd/pserverd
```

3. Add an entry to the host's `/etc/printcap` file, similar to the following:

```
printer-name:\  
  :lp=:\  
  :rm=203.66.191.186:\  
  :rp=lpt1:\  
  :lf=/var/spool/lpd/pserverd.log:\  
  :sd=/var/spool/lpd/pserverd:\  
  :mx#0:
```

Lines should be indented with tabs. More than one printer name can be used, with variants separated by vertical bars (name1|name2).

The `rm=` entry should correspond to the IP address you have assigned to the GDI Print Server. You can also use a host name if you have assigned one in the `/etc/hosts` file.

The `sd=` entry should correspond to the spool directory you created in the previous step.

The `rp=` entry should correspond to the port name of the remote printer. The values should be one of `lpt1`, `lpt2` or `lpt3` depends on the printer port.

The GDI Print Server should now be available for printing from your Unix/Linux host.

# 12.GDI Print Server Installation in MAC OS

LPR Printing (Line Printer Remote technology) allows Macintosh computers to connect to printers via TCP/IP. LPR Printing can be set up on any Macintosh with version 9.x above.

## 12.1 MAC 10.4.x

To enable LPR Printing in Macintosh 10.4.x, please follow the procedures below.

1. Open Print and Fax from the System Preferences.
2. With the Printing tab selected, click the "Add" button.
3. When the Printer Browser opens, select "IP Printer".
4. In the "IP Printer" screen, please configure as below.

Protocol: Select Line Printer Daemon - LPD as the Protocol.

IP Address: Set the address to the GDI Print Server's IP Address, for example: 192.168.2.2.

Queue: Set the queue name to lpt1.

Name: You can designate a name for the printer.

Location: You can enter the location of the printer.

Printer: Select the printer model that is attached to the GDI Print Server.

5. Click "Add" to complete the printer installation.

## 12.2 MAC 10.3.x

To enable LPR Printing in Macintosh 10.3.x, please follow the procedures below.

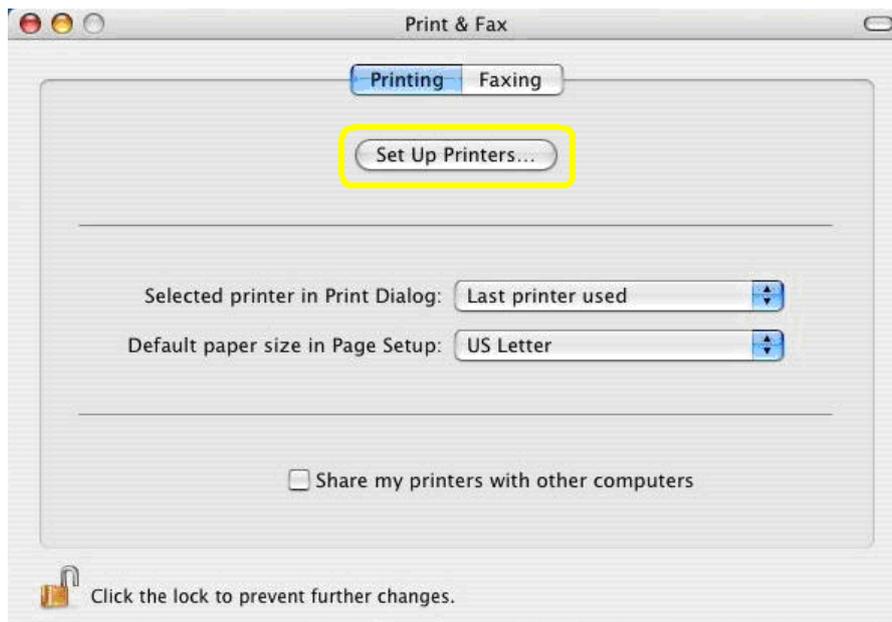
1. In the Desktop, click "System Preferences".



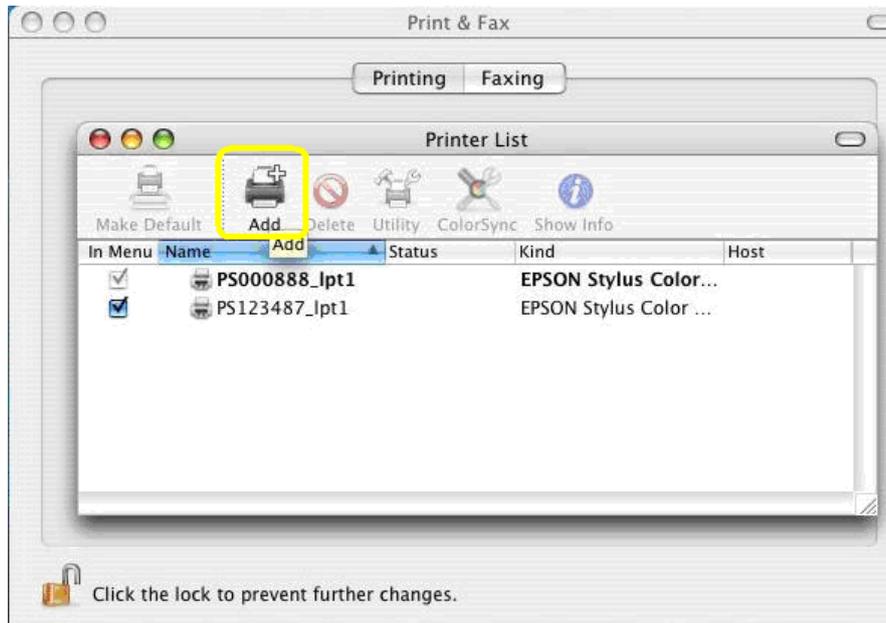
2. Click "Print & Fax".



3. From the "Print & Fax" screen, click "Set Up Printers..."



4. Click "Add" to add the new GDI Print Server through TCP/IP.



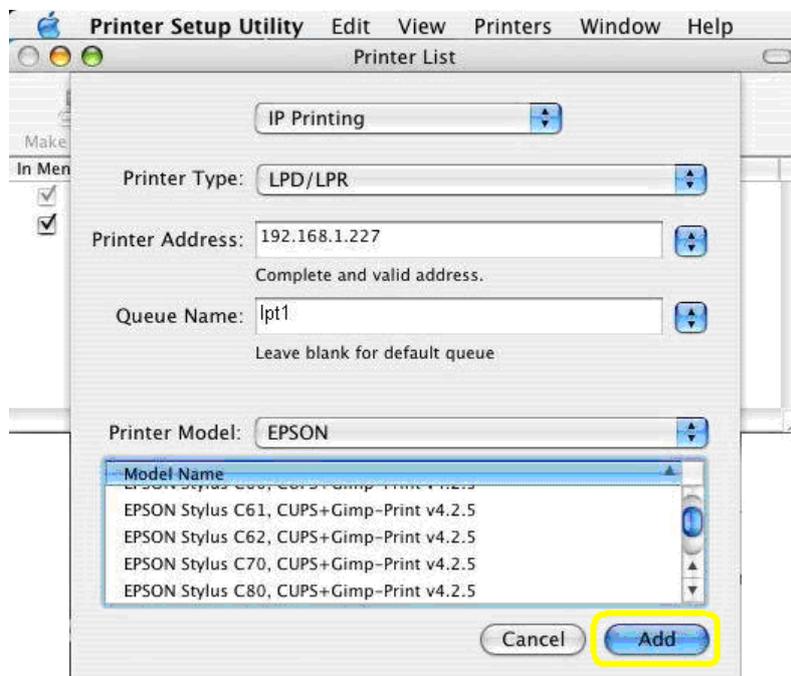
5. Enter the "Printer Type", "Printer Address" and "Queue Name" and select the "Printer Model" to setup the GDI Print Server. Click "Add" to continue.

Printer Type: LPD/LPR

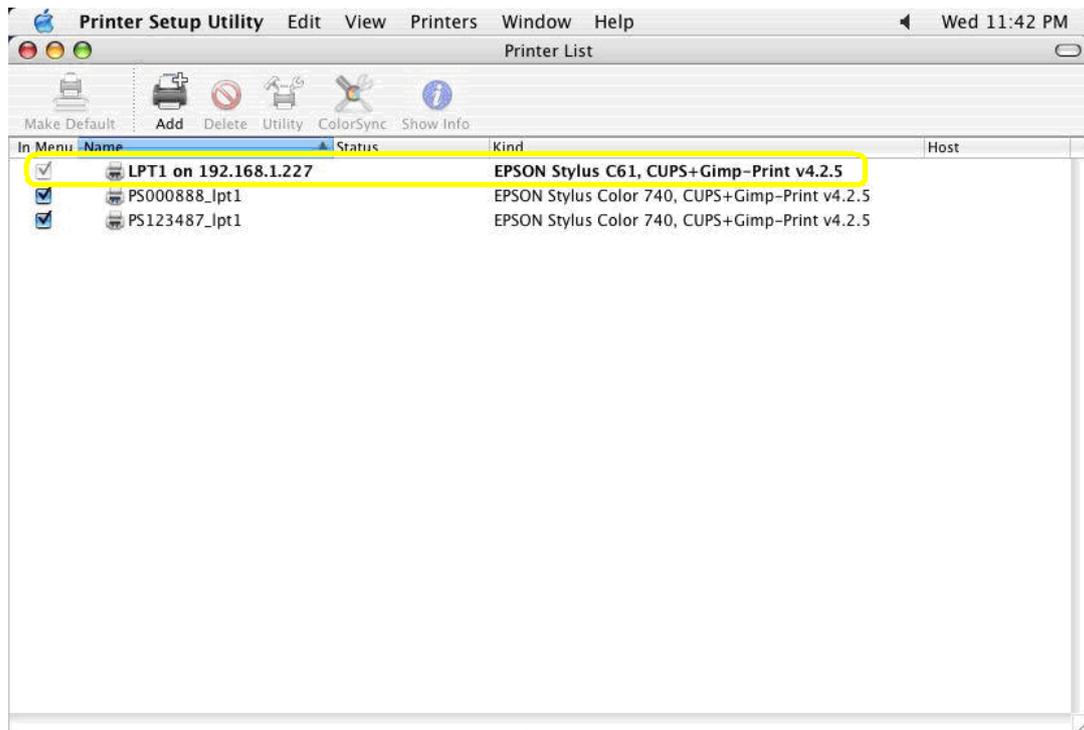
Printer Address: Input the IP Address of the GDI Print Server

Queue Name: The queue name of the GDI Print Server is "lpt1".

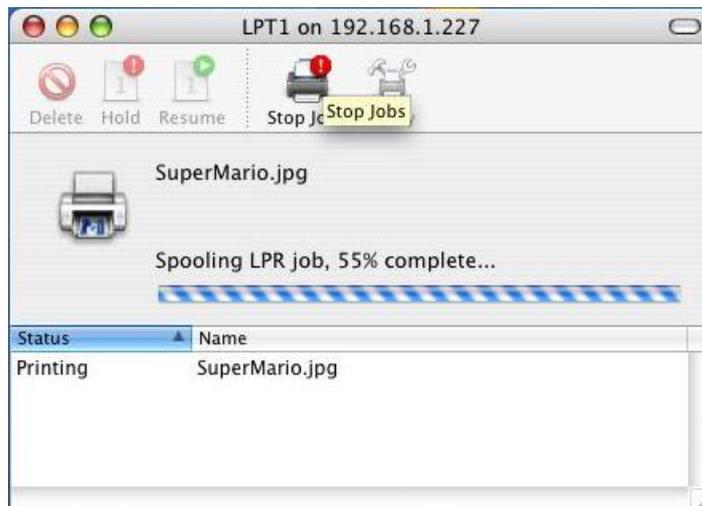
Printer Model: Select the Printer Model that is attached to the GDI Print Server.



6. The GDI Print Server is installed completely. You can see it in the "Printer List".



7. You can print a file to check whether the GDI Print Server is installed successfully.



# Appendix A Troubleshooting

**Q1:** The printer cannot be shared in the network.

**A:**

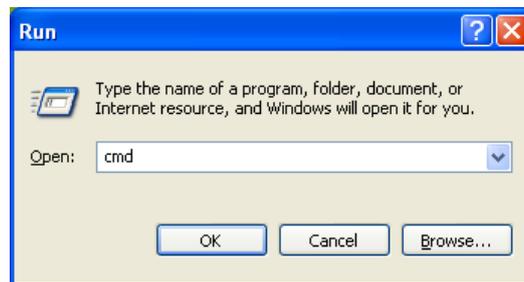
- Check if the printer is a GDI Printer. If it is a GDI printer, please make sure you have run the "Setup Wizard" and follow the instructions in the manual to install the printer.
- Check if the print server's IP Address settings are in the same subnet with your computer. For example, if your computer's IP Address is 192.168.1.3, the print server's IP Address setting should be 192.168.1.x.
- Check if the printer you are using is in the "Compatibility List" in Appendix or contact with your dealer.

**Q2 :** I am not sure the IP Address settings of my computer.

**A:**

The following procedures will help you to check the current IP Address setting of your computer. You can compare if your computer and print server's IP Addresses are in the same subnet.

1. Click "Start" and select "Run".
2. Type in "cmd" and click "OK".



3. Type ipconfig /all and click enter.

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Test>ipconfig/all

Windows IP Configuration

    Host Name . . . . . : test-b6663a0cd4
    Primary Dns Suffix . . . . . :
    Node Type . . . . . : Unknown
    IP Routing Enabled. . . . . : No
    WINS Proxy Enabled. . . . . : No

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  :
    Description . . . . . : Intel(R) PRO/100 UE Network Connecti
on
    Physical Address. . . . . : 00-00-E2-82-C3-AD
    Dhcp Enabled. . . . . : No
    IP Address. . . . . : 192.168.2.111
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :

C:\Documents and Settings\Test>
```

- Your PC's IP address is 192.168.2.111.
- The PC's Subnet Mask is 255.255.255.0.

- Your PC's MAC Address is the one entitled Physical Address (00-00-E2-82-C3-AD).

**Q3 :** This product is not found even after searching by the "Server Manager".

**A:**

- Check if the power adapter and the network cable are connected to the GDI Print Server properly.
- Check if the LAN and ACT LEDs are turned on.

**Q5:** The ways to change the IP Address of the GDI Print Server.

**A:**

- A DHCP Server is installed in the network

If a DHCP Server is installed, you can setup to let the GDI Print Server get IP Address from the DHCP Server automatically.

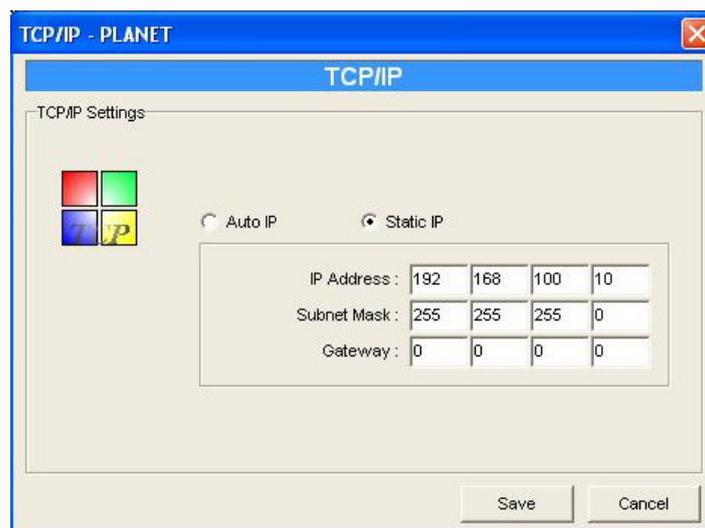
1. Open "Server Manager" and then select "TCP/IP" setting.
2. Select "Auto IP" and click "Save".
3. Reboot the GDI Print Server.

- Set up the IP Address Manually

1. Open "Server Manager" and then select "TCP/IP" setting.
2. Select "Static IP" and enter the IP Address and Subnet Mask as your computer. Click "Save".
3. Reboot the GDI Print Server.

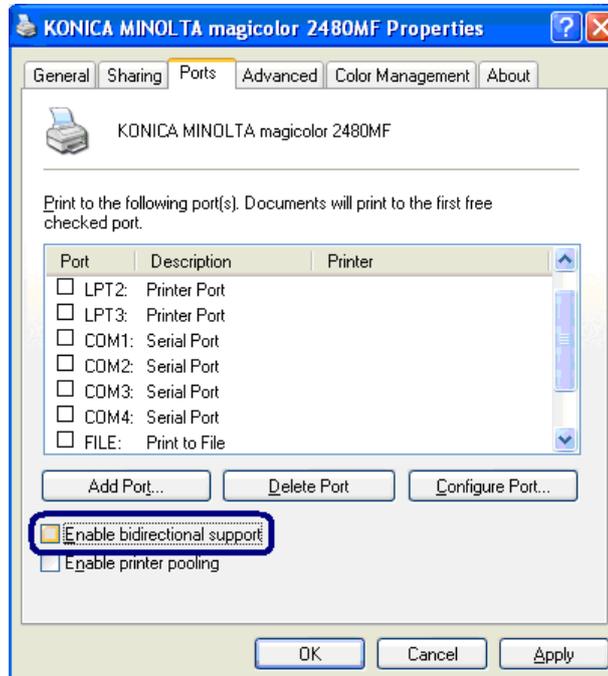
**Note**

Set a static IP Address to GDI Print Server is recommended since DHCP assignment may dramatically change the IP Address for GDI Print Server.



**Q7:** When I use LPR, IPP or RAW printing, the printing jobs are not able to print to the printer.

- Disable "Bi-Directional Support". Please follow the steps below.
  1. Right click the printer from "Printer and Faxes" in the Windows.
  2. Select "Properties" and select "Ports".
  3. Uncheck the "Enable bidirectional support".



- Check if the printer you are using is in the "Compatibility List" in Appendix or contact with your dealer.
- This printer might be a GDI printer, please run "Setup Wizard" to install the printer again.

## Appendix B Specification

<b>Model</b>	<b>FPS-1011</b>
Printer Connector	1 * USB 2.0
Ethernet Connector	1 * 10/100Base-TX
LEDs	3; LAN, ACT, READY
Protocol Support	TCP/IP, NetBEUI, AppleTalk, HTTP, IPP, DHCP, LPR
Power Input	7V DC, 700mA
Cabling Type	10Base-T UTP Cat 3 or better 100Base-TX UTP Cat5 or better
Network Speed	10/100Mbps, Half-Duplex mode 20/200Mbps, Full-Duplex mode
Dimension (L * W * H)	75 x 56 x 24 (mm)
Weight	45g
Environmental Specifications	Operating Temperature : 0~50 degree C Storage Temperature: -10 ~ 60 degree C Operating Humidity: 10~90% Storage Humidity: 0~95%
EMI	CE, FCC Class B

# Appendix C Print Server Compatibility List

The compatibility information is the first released in November 2006. For the latest information, please contact with your dealer.

- 
- Note**
1. The compatibility list contains general printers and GDI printers. If the printer is GDI printer, you will see "GDI" in the "Note" column.
  2. Users have to close bi-directional.
  3. For some of Lexmark printers, please close bi-directional and choose "WinPrint" processor and RAW printing protocol.
- 

No.	Company	Type	Printer Model	Print	Note
1.	HP	Color Inkjet Printer	Deskjet 450	OK	
2.	HP	Color Inkjet Printer	Deskjet 810C	OK	
3.	HP	Color Inkjet Printer	Deskjet 880C	OK	
4.	HP	Color Inkjet Printer	Deskjet 882C	OK	
5.	HP	Color Inkjet Printer	Deskjet 920C	OK	
6.	HP	Color Inkjet Printer	Deskjet 960	OK	
7.	HP	Color Inkjet Printer	Deskjet 980	OK	
8.	HP	Color Inkjet Printer	Deskjet 990	OK	
9.	HP	Color Inkjet Printer	Deskjet 1120C	OK	
10.	HP	Color Inkjet Printer	Deskjet 1180C	OK	
11.	HP	Color Inkjet Printer	Deskjet 3325	OK	
12.	HP	Color Inkjet Printer	Deskjet 3535	OK	
13.	HP	Color Inkjet Printer	Deskjet 3550	OK	
14.	HP	Color Inkjet Printer	Deskjet 3650	OK	
15.	HP	Color Inkjet Printer	Deskjet 3820	OK	
16.	HP	Color Inkjet Printer	Deskjet 3920 <sup>(Note2)</sup>	OK	
17.	HP	Color Inkjet Printer	Deskjet 5160	OK	
18.	HP	Color Inkjet Printer	Deskjet 5440	OK	
19.	HP	Color Inkjet Printer	Deskjet 5550	OK	
20.	HP	Color Inkjet Printer	DeskJet 5652	OK	
21.	HP	Color Inkjet Printer	DeskJet 5740	OK	

22.	HP	Color Inkjet Printer	Deskjet 6122	OK	
-----	----	----------------------	--------------	----	--

No.	Company	Type	Printer Model	Print	Note
23.	HP	Color Inkjet Printer	DeskJet 6540	OK	
24.	HP	Color Inkjet Printer	DeskJet 6840	OK	
25.	HP	Color Inkjet Printer	Deskjet 9300	OK	
26.	HP	Color Inkjet Printer	Deskjet 9650	OK	
27.	HP	Color Inkjet Printer	Deskjet 995C	OK	
28.	HP	Color Inkjet Printer (Business)	Business 1100d	OK	
29.	HP	Color Inkjet Printer (Business)	Business 1200d	OK	
30.	HP	B&W LaserJet Printer (MFP)	LaserJet 3015	OK	
31.	HP	B&W LaserJet Printer (MFP)	LaserJet 3020	OK	
32.	HP	B&W LaserJet Printer (MFP)	LaserJet 3030	OK	
33.	HP	B&W LaserJet Printer (MFP)	LaserJet 3055	OK	
34.	HP	B&W LaserJet Printer (MFP)	LaserJet 3380	OK	
35.	HP	Color LaserJet Printer	LaserJet 4650	OK	
36.	HP	Color MFP (Business)	Office Jet 4110	OK	
37.	HP	Color MFP	Office Jet 4255	OK	
38.	HP	Color MFP	Office Jet 4355	OK	
39.	HP	Color MFP (Business)	Office Jet 5110	OK	
40.	HP	Color MFP	Office Jet 5510	OK	
41.	HP	Color MFP	Office Jet 5610	OK	
42.	HP	Color MFP	Office Jet 6110	OK	
43.	HP	Color MFP	Office Jet 6210	OK	
44.	HP	Color MFP	Office Jet 6310	OK	
45.	HP	Color MFP	Office Jet 7210	OK	
46.	HP	Color MFP	Office Jet 7410	OK	
47.	HP	Color MFP	Office Jet 9100	OK	
48.	HP	Color MFP (Business)	Office Jet 9110	OK	
49.	HP	Color MFP (Business)	Office Jet 9120	OK	
50.	HP	Color MFP (Business)	Office Jet 9130	OK	
51.	HP	Color MFP (Business)	Office Jet V40	OK	
52.	HP	B&W LaserJet Printer	LaserJet 1010	OK	

53.	HP	B&W LaserJet Printer	LaserJet 1012	OK	
54.	HP	B&W LaserJet Printer	LaserJet 1015	OK	
55.	HP	B&W LaserJet Printer	LaserJet 1020	OK	GDI
<b>No.</b>	<b>Company</b>	<b>Type</b>	<b>Printer Model</b>	<b>Print</b>	<b>Note</b>
56.	HP	B&W LaserJet Printer	LaserJet 1022	OK	GDI
57.	HP	B&W LaserJet Printer	LaserJet 1200	OK	
58.	HP	B&W LaserJet Printer	LaserJet 1220	OK	
59.	HP	B&W LaserJet Printer	LaserJet 1300	OK	
60.	HP	B&W LaserJet Printer	LaserJet 1320	OK	
61.	HP	B&W LaserJet Printer	LaserJet 2300	OK	
62.	HP	B&W LaserJet Printer	LaserJet 2300L	OK	
63.	HP	B&W LaserJet Printer	LaserJet 2420	OK	
64.	HP	B&W LaserJet Printer (MFP)	LaserJet 3200	OK	
65.	HP	B&W LaserJet Printer (MFP)	LaserJet 3300	OK	
66.	HP	B&W LaserJet Printer (MFP)	LaserJet 3330mfp	OK	
67.	HP	B&W LaserJet Printer	LaserJet 4350	OK	
68.	HP	Color LaserJet Printer	CLJ 1500L	OK	
69.	HP	Color LaserJet Printer	CLJ 3500	OK	
70.	HP	Color LaserJet Printer	CLJ 3500N	OK	
71.	HP	Color LaserJet Printer	CLJ 3700	OK	
72.	HP	Color LaserJet Printer	CLJ 4600	OK	
73.	HP	Mini Photo Printer	Photosmart 145	OK	
74.	HP	Mini Photo Printer	Photosmart 245	OK	
75.	HP	Mini Photo Printer	PhotoSmart 325	OK	
76.	HP	Mini Photo Printer	PhotoSmart 375	OK	
77.	HP	Mini Photo Printer	PhotoSmart 475	OK	
78.	HP	Color Photo Printer (MFP)	PhotoSmart 2575	OK	
79.	HP	Color Photo Printer (MFP)	PhotoSmart 2610	OK	
80.	HP	Color Photo Printer (MFP)	PhotoSmart 2710	OK	
81.	HP	Color Photo Printer (MFP)	PhotoSmart 3110	OK	
82.	HP	Color Photo Printer (MFP)	PhotoSmart 3310	OK	
83.	HP	Photo Printer	Photosmart 7260	OK	
84.	HP	Photo Printer	Photosmart 7450	OK	
85.	HP	Photo Printer	Photosmart 7550	OK	

86.	HP	Photo Printer	Photosmart 7660	OK	
87.	HP	Photo Printer	PhotoSmart 7760	OK	
88.	HP	Photo Printer	PhotoSmart 7830	OK	
<b>No.</b>	<b>Company</b>	<b>Type</b>	<b>Printer Model</b>	<b>Print</b>	<b>Note</b>
89.	HP	Photo Printer	Photosmart 7960	OK	
90.	HP	Photo Printer	Photosmart 8030	OK	
91.	HP	Photo Printer	Photosmart 8230	OK	
92.	HP	Photo Printer	Photosmart 8250	OK	
93.	HP	Photo Printer	PhotoSmart 8450	OK	
94.	HP	Photo Printer	PhotoSmart 8750	OK	
95.	HP	Color MFP (SOHO)	PSC 750	OK	
96.	HP	Color MFP (SOHO)	PSC 1110	OK	
97.	HP	Color MFP	PSC 1210	OK	
98.	HP	Color MFP	PSC 1315	OK	
99.	HP	Color MFP	PSC 1350	OK	
100.	HP	Color MFP	PSC 1410	OK	
101.	HP	Color MFP	PSC 1510	OK	
102.	HP	Color MFP	PSC 1610	OK	
103.	HP	Color MFP (SOHO)	PSC 2110	OK	
104.	HP	Color MFP	PSC 2210	OK	
105.	HP	Color MFP	PSC 2310	OK	
106.	HP	Color MFP	PSC 2355	OK	
107.	HP	Color MFP	PSC 2410	OK	
108.	HP	Color MFP	PSC 2510	OK	
109.	HP	Color MFP (SOHO)	PSC 4110	OK	
110.	Canon	Color Laser Machine (MFP)	iC D380	OK	
111.	Canon	Color Ink Printer	S200SPx	OK	
112.	Canon	Color Ink Jet Printer	C350	OK	
113.	Canon	Color Ink Jet Printer	i255	OK	
114.	Canon	Color Ink Jet Printer	i320	OK	
115.	Canon	Color Ink Jet Printer	i355	OK	
116.	Canon	Color Ink Jet Printer	i450	OK	
117.	Canon	Color Ink Jet Printer	i455	OK	
118.	Canon	Color Ink Jet Printer	i550	OK	

119.	Canon	Color Ink Jet Printer	i850	OK	
120.	Canon	Color Ink Jet Printer	i6100	OK	
121.	Canon	Color Ink Jet Printer	i6500	OK	
<b>No.</b>	<b>Company</b>	<b>Type</b>	<b>Printer Model</b>	<b>Print</b>	<b>Note</b>
122.	Canon	Color Ink Jet Printer	i9100	OK	
123.	Canon	Color Ink Jet Printer	i9950D	OK	
124.	Canon	Color Ink Jet Printer (Photo Printer)	i475D	OK	
125.	Canon	Color Ink Jet Printer (Photo Printer)	i560	OK	
126.	Canon	Color Ink Jet Printer (Photo Printer)	i865	OK	
127.	Canon	Color Ink Jet Printer (Photo Printer)	i905D	OK	
128.	Canon	B&W Copying Machine	iR 2010	OK	
129.	Canon	Color Ink Jet Printer	iP90	OK	
130.	Canon	Color Ink Jet Printer	iP1000	OK	
131.	Canon	Color Ink Jet Printer	iP1500	OK	
132.	Canon	Color Ink Jet Printer	iP2000	OK	
133.	Canon	Color Ink Jet Printer	iP3000	OK	
134.	Canon	Color Ink Jet Printer (Photo Printer)	iP4000	OK	
135.	Canon	Color Ink Jet Printer	iP5000	OK	
136.	Canon	Color Ink Jet Printer	iP6000D	OK	
137.	Canon	Color Ink Jet Printer (Photo Printer)	iP8500D	OK	
138.	Canon	Color Ink Jet Printer (A3 Photo Printer)	iX4000	OK	
139.	Canon	Color Ink Jet Printer (A3 Photo Printer)	iX5000	OK	
140.	Canon	Color Ink Jet Printer (MFP)	PIXMA MP110	OK	
141.	Canon	Color Ink Jet Printer (MFP)	PIXMA MP130	OK	
142.	Canon	Color Ink Jet Printer (MFP)	PIXMA MP150	OK	
143.	Canon	Color Ink Jet Printer (MFP)	PIXMA MP170	OK	

144.	Canon	Color Ink Jet Printer (MFP)	PIXMA MP450	OK	
145.	Canon	Color Ink Jet Printer (MFP)	PIXMA MP700	OK	
146.	Canon	Color Ink Jet Printer (MFP)	PIXMA MP730	OK	
147.	Canon	Color Ink Jet Printer (MFP)	PIXMA MP780	OK	
148.	SAMSUNG	B&W Laser Printer	ML-1520LP	OK	
149.	SAMSUNG	B&W Laser Printer	ML-1740	OK	
150.	SAMSUNG	B&W Laser Printer	ML-2010	OK	
151.	SAMSUNG	Color MFP	SCX-4100	OK	
152.	SAMSUNG	Color MFP	SCX-4720F	OK	
153.	Lexmark	All-in-One Photo Printer (MFP)	P4350	OK	
154.	Lexmark	All-in-One Photo Printer (MFP)	P6210	OK	
<b>No.</b>	<b>Company</b>	<b>Type</b>	<b>Printer Model</b>	<b>Print</b>	<b>Note</b>
155.	Lexmark	All-in-One Photo Printer (MFP)	P6250	OK	GDI
156.	Lexmark	All-in-One Photo Printer (MFP)	X2350	OK	GDI
157.	Lexmark	All-in-One Photo Printer (MFP)	X3350	OK	GDI
158.	Lexmark	All-in-One Photo Printer (MFP)	X3470	OK	GDI
159.	Lexmark	All-in-One Photo Printer (MFP)	X4270	OK	
160.	Lexmark	All-in-One Photo Printer (MFP)	X6170	OK	
161.	Lexmark	All-in-One Photo Printer (MFP)	X7350	OK	GDI
162.	Lexmark	Color Ink Jet Printer	Z603 <sup>(Note3)</sup>	OK	
163.	Lexmark	Color Ink Jet Printer	Z615 <sup>(Note3)</sup>	OK	
164.	Lexmark	Color Ink Jet Printer	Z617	OK	GDI
165.	Lexmark	Color Ink Jet Printer	Z705 <sup>(Note3)</sup>	OK	
166.	Lexmark	Color Ink Jet Printer	Z735	OK	GDI
167.	Lexmark	Color Ink Jet Printer	Z810 <sup>(Note3)</sup>	OK	
168.	Lexmark	Color Ink Jet Printer	Z816 <sup>(Note3)</sup>	OK	
169.	Lexmark	Color Ink Jet Printer	Z818 <sup>(Note3)</sup>	OK	
170.	Lexmark	B&W Laser Jet Printers	E120	OK	
171.	Lexmark	B&W Laser Jet Printers	E230	OK	
172.	Lexmark	Color Laser Jet Printers	C510	OK	
173.	Epson	Color Laser Jet Printer	Aculaser C1900	OK	
174.	Epson	Color Laser Jet Machine	Aculaser C4000	OK	
175.	Epson	Color Laser Jet Machine	Aculaser C4100	OK	
176.	Epson	Color Laser Jet Machine	Aculaser C8600	OK	

177.	Epson	Impact Printer	DLQ-3500C	OK	
178.	Epson	B&W Laser Jet Machine	EPL-6100	OK	
179.	Epson	B&W Laser Jet Machine	EPL-6200	OK	
180.	Epson	B&W Laser Jet Machine	EPL-6200L	OK	GDI
181.	Epson	B&W Laser Jet Machine	EPL-N2500	OK	
182.	Epson	B&W Laser Jet Machine	EPL-N3000	OK	
183.	Epson	Color Ink Jet Printer (Photo Printer)	PictureMate	OK	
184.	Epson	Color Ink Jet Printer (Photo Printer)	Stylus C43UX	OK	
185.	Epson	Color Ink Jet Printer	Stylus C63	OK	
186.	Epson	Color Ink Jet Printer	Stylus C67	OK	
187.	Epson	Color Ink Jet Printer	Stylus C83	OK	
<b>No.</b>	<b>Company</b>	<b>Type</b>	<b>Printer Model</b>	<b>Print</b>	<b>Note</b>
188.	Epson	Color Ink Jet Printer	Stylus C88	OK	
189.	Epson	Color Ink Jet Printer (Photo Printer)	Stylus COLOR 900	OK	
190.	Epson	Color Ink Jet Printer (Photo Printer)	Stylus COLOR 1160	OK	
191.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus CX1500	OK	
192.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus CX3100	OK	
193.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus CX3700	OK	
194.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus CX4100	OK	
195.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus CX4700	OK	
196.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus CX5100	OK	
197.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus CX5300	OK	
198.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus CX5700F	OK	

199.	Epson	Color Ink Jet Printer (Photo Printer)	Stylus PHOTO 830U	OK	
200.	Epson	Color Ink Jet Printer (Photo Printer)	Stylus PHOTO 935	OK	
201.	Epson	Color Ink Jet Printer (Photo Printer)	Stylus PHOTO 2100	OK	
202.	Epson	Color Ink Jet Printer (Photo Printer)	Stylus PHOTO R210	OK	
203.	Epson	Color Ink Jet Printer (Photo Printer)	Stylus PHOTO R310	OK	
204.	Epson	Color Ink Jet Printer (Photo Printer)	Stylus PHOTO R340	OK	
205.	Epson	Color Ink Jet Printer (Photo Printer)	Stylus PHOTO R350	OK	
206.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus PHOTO RX430	OK	
207.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus PHOTO RX510	OK	
208.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus PHOTO RX520	OK	
209.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus PHOTO RX530	OK	
210.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus PHOTO RX630	OK	
211.	Epson	Color Ink Jet Photo Printer (MFP)	Stylus PHOTO RX650	OK	
212.	Brother	Color Laser Printer	HL-2070	OK	
213.	Brother	Color Laser Printer	HL-5240	OK	
214.	Brother	Color Laser Printer (MFP)	MFC-210C	OK	
215.	Brother	Color Laser Printer (MFP)	MFC-215C	OK	
216.	Brother	Color Laser Printer (MFP)	MFC-2820	OK	
217.	Brother	Color Laser Printer (MFP)	MFC-3240C	OK	
218.	Brother	Color Laser Printer (MFP)	MFC-420CN	OK	
219.	Brother	Color Laser Printer (MFP)	MFC-425CN	OK	
220.	Brother	Color Laser Printer (MFP)	MFC-4800J	OK	

<b>No.</b>	<b>Company</b>	<b>Type</b>	<b>Printer Model</b>	<b>Print</b>	<b>Note</b>
221.	Brother	Color Laser Printer (MFP)	MFC-7420	OK	
222.	Brother	Color Laser Printer (MFP)	MFC-7820N	OK	
223.	Brother	Color Laser Printer (MFP)	MFC-8840D	OK	
224.	Konica Minolta	Color Laser Printer (MFP)	2480	OK	
225.	Dell	All-In-One Printer (MFP)	944	OK	
226.	BenQ	MFP	CM3000	OK	GDI