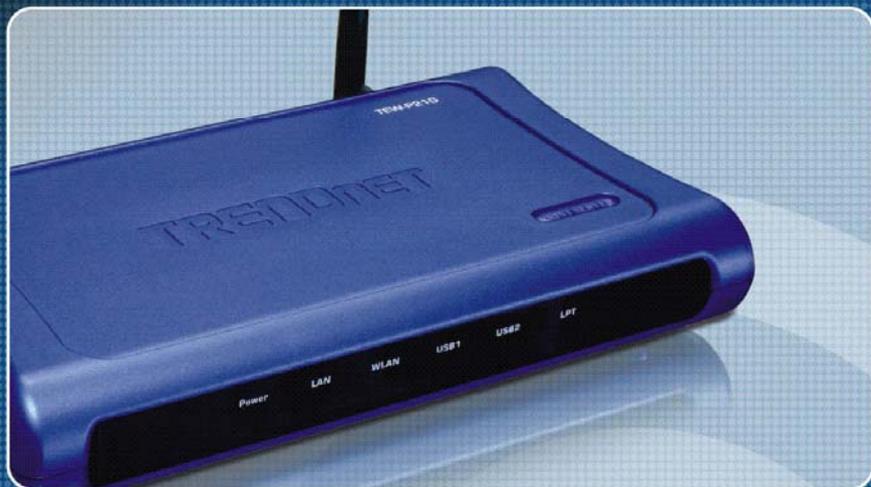




TRENDNET®



User's Guide

TEW-P21G

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EMI Compliance 107

ABOUT THIS GUIDE

This manual provides instructions and illustrations on how to use your Wireless Print Server, including:

- Chapter 1, **Introduction**, provides the general information on the product.
- Chapter 2, **Hardware Installation**, describes the hardware installation procedure for the product.
- Chapter 3, **Using the Utilities**, helps you to install and use the software.
- Chapter 4, **Web Configuration**, completes the configuration using the web browser.
- Chapter 5, **Printing in Windows 95/98/ME**, completes the printing TCP/IP setting in Windows 95/98/ME environment.
- Chapter 6, **Printing in Windows 2000/XP/Vista**, completes the printing TCP/IP Setting in Windows 2000/XP environment.
- Chapter 7, **Printing in MAC OS**, lets you complete printing task through your print server in MAC OS environment.
- Chapter 8, **Product Specification**.

Please note that the illustrations or setting values in this manual are **FOR YOUR REFERENCE ONLY**. The actual settings and values depend on your system and network. If you are not sure about the respective information, please ask your network administrator or MIS staff for help.

1

INTRODUCTION

Congratulations on purchasing your TEW-P21G Wireless Print Server, the easiest and fastest way to deploy printers on your network.

This compact print server can connect your network through an Access Point under the infrastructure mode, or can be used in ad-hoc mode for direct communication between PC/Notebook and print server anywhere you wish to locate wireless printer services. It manages the flow of print files from your workstation or file server to its connected printers, delivering print jobs to high-performance printers much faster than a file server or a PC acting as a print server can.

The Wireless Print Server features a Web-based Configuration Utility, which allows you to set up the print server through the web browser easily and quickly. It also includes powerful software utility **PS-Utility** and **PS Monitor** Program, the user-friendly program that allows you to complete further settings for the print server.

Package Contents

Unpack the package and check all the items carefully, and be certain that you have:

- ◆ One TEW-P21G Wireless Print Server.
- ◆ One Multi-Language Quick Installation Guide.
- ◆ One Installation CD-ROM containing the PS-Utility, PS Monitor program and the User's Guide.
- ◆ One AC Power Adapter suitable for your country's electric power service.

If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packing materials in case you need to ship the unit in the future.

System Requirements

- ◆ Operating System:
 - Microsoft Windows 95/98/ME/NT/2000/XP/2003/Vista.
 - Apple Mac OS (with Apple Talk support).
- ◆ For Web Configuration:
 - Java-enabled web browser, such as Microsoft® Internet Explorer 5.0 and Netscape Navigator 6.0.

General Features

- ◆ Equipped with 1 parallel port and 2 USB ports allows user to share three printers on LAN simultaneously.
- ◆ Compliant with USB 2.0 High-speed printing.
- ◆ Equipped one 10/100 auto-MDIX Fast Ethernet LAN port.
- ◆ Multi protocol support is ideal for shared printing in mixed-LAN environments.
- ◆ Windows-based administrative program makes it possible to set up in a few steps.
- ◆ Latest MIB-II (RFC 1213) for SNMP standard management.
- ◆ Offer LPR program for Windows 95/98/Me TCP/IP printing.
- ◆ IP assignment support for DHCP, BOOTP and RARP.
- ◆ Support Web configuration.
- ◆ Provide Flash memory for easy firmware upgrade.
- ◆ Highly efficient design mechanism to provide unbeatable performance achieving data rate up to 54Mbps for 802.11g and 11Mbps for 802.11b with wide range coverage.
- ◆ Printing Access control and display.
- ◆ E-mail notification for printer error messages.
- ◆ Support E-Mail printing and FTP printing.
- ◆ Ability to save print server configuration into hard drive for easy access and backup without the hassle to reconfigure if setting is altered.
- ◆ Support IPP printing for Windows 2000/XP.
- ◆ Support Microsoft Graphical Device Interface (GDI) Printer
- ◆ Support second http port for remote web configuration and IPP printing.
- ◆ Support UPnP (Universal Plug and Play) for Windows XP.
- ◆ Support Mac OS 10.2 “Rendezvous” zero-configuration function.

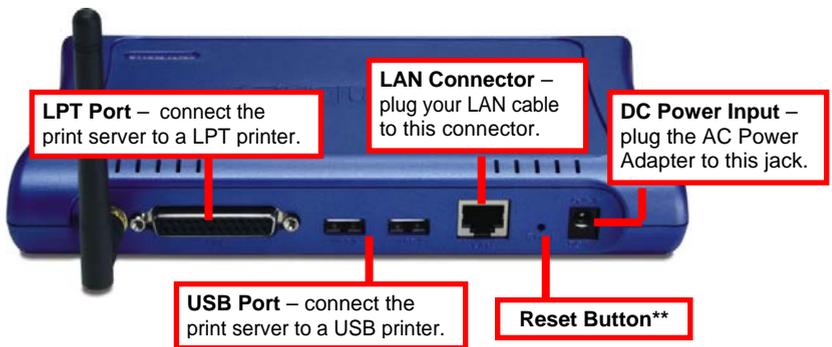
Product View

This section describes the externally visible features of the print server.

Front View



Rear View



* There are six green LED indicators on the front panel:

LEDs	Description
Power	Steady light confirms that the Print Server is powered on.
USB1	When it's blinking, the connected printer is now printing.
USB2	When it's blinking, the connected printer is now printing.
LPT	When it's blinking, the connected printer is now printing.
LAN	Steady light confirms that the print server has a good connection to your network. When it is blinking (briefly dark), the print server is receiving/ transmitting data from/to the network.
WLAN	Steady light confirms that the print server has a good connection to your wireless network. When it blinks (briefly dark), the print server is receiving/ transmitting data from/to the wireless network.

****Reset Unit**

- Press and release reset button to reset the print server

Restore to Factory Default

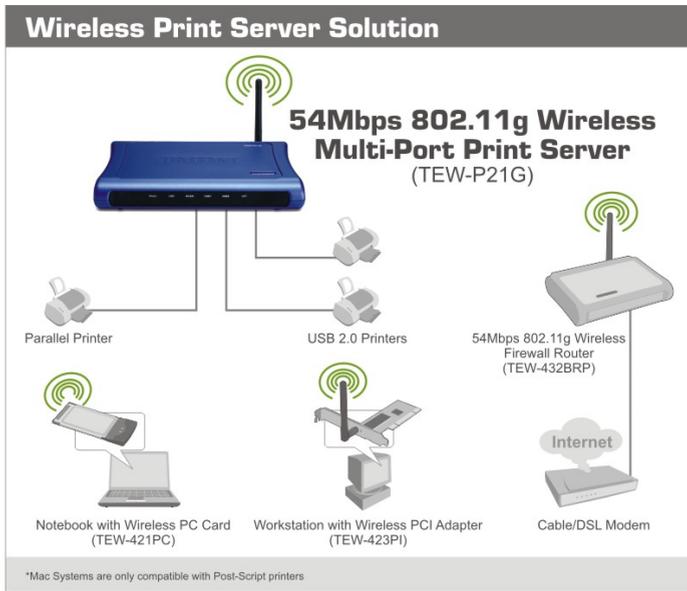
- Press and hold reset button for three seconds (the USB LED on the front panel will light up) and then release it, the print server will restore to factory default settings.

2

HARDWARE INSTALLATION

Networking Application

The following diagram explains the application of your print server.



Installing the Print Server

Follow these steps for a trouble-free start of print server operations with your Wireless Print Server.

1. Confirm proper operation of the printer to be connected to the print server.
2. When you have confirmed proper operation of the printer, turn off the power.
3. Confirm that your network is operating normally.
4. Connect the print server to the network (through the RJ-45 connector of the print server).
5. While the printer is powered off, connect the print server to the printer's USB or Parallel port.
6. Turn on the printer's power.
7. Connect the DC end of the AC Power adapter to the DC power input socket of the print server and the AC end to the wall outlet. This will supply power to the print server immediately.

NOTE: *This print server is built with a default IP Address. To prevent from any conflict in your network, it is recommended to use the PS-Utility program to change the IP setting when there is some other device's IP Address is the same as the print server's default IP Address.*

USING THE UTILITIES

This chapter describes the software utilities for the print server, including how to set up your print server with these utility. The **PS-Utility** and **PS Wizard** are designed with a user-friendly interface that allows you to set up and administer the print server easily.

Auto-Run Installation

Insert the Installation CD-ROM into your computer's CD-ROM drive to initiate the Auto-Run program, and the menu screen will appear as below.



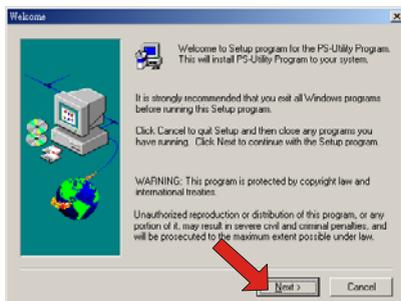
- **PS Wizard** – click to setup printer port connectivity
- **Utility** – click to install PS-Utility. Please refer to the next section for detailed information on installing the utility.
- **User's Guide** – click to preview the *User's Guide* in PDF format for detailed information of the Print Server.
- **Product Registration**– click to register your product on-line
- **Exit** – click to close the Auto-Run program.

PS-Utility

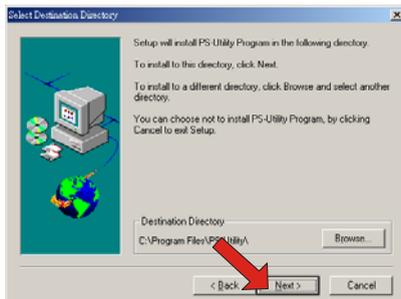
To avoid the conflict in your network, you can use PS-Utility to change the related settings of your print server (such as the IP address) after finishing the installation.

Installing PS-Utility

1. Click **Utility** → **PS Utility** from the Auto-Run menu screen. Once executed, the Setup program will extract files to launch the InstallShield Wizard; then, click **Next >** in the welcome screen of InstallShield Wizard.



2. Choose the destination location. If no specific requirement, leave the default setting and click **Next >**.



3. The InstallShield Wizard starts to install the software, and the Progress bar indicates the installation is proceeding.
4. When completed, click **Finish**.

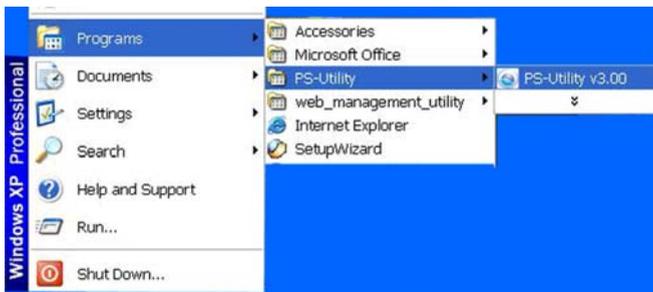


After installing the utility, the application program for the print server is automatically installed to your computer, and creates a folder in **Start\Programs\PS-Utility**.

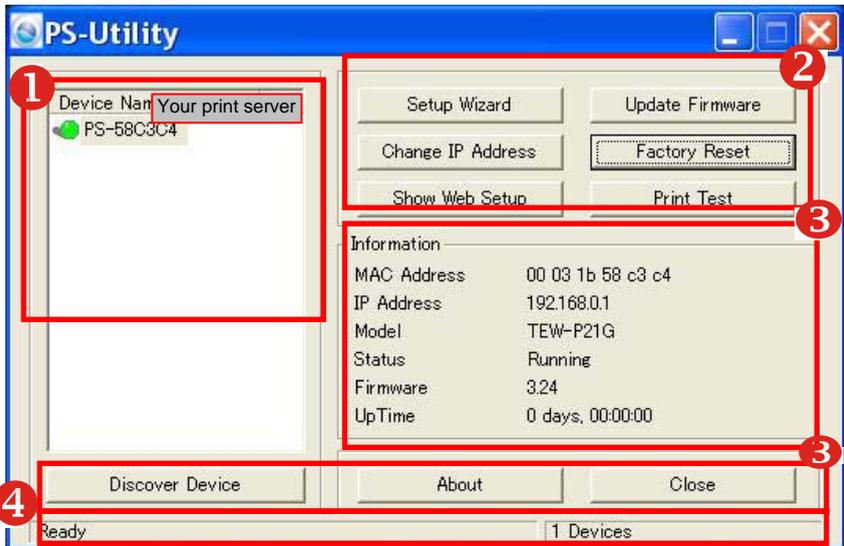
Using PS-Utility

This section describes the operation of PS-Utility. To launch PS-Utility:

1. Click **Start -> Programs -> PS-Utility**, and then click the **PS-Utility** item.



- The main screen will appear as below, and it starts to search the connected print server within the network.

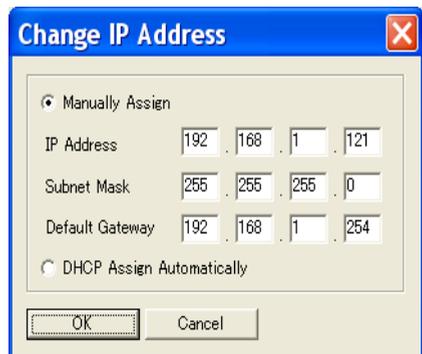


Component Features:

- Device List:** Display the connected print server within the network.

- Control Buttons**

- **Change IP Address:** Click this button to bring up the following dialog box, allowing you to change the IP Address. In this dialog box, you can select either *Manually Assign* or *DHCP Assign Automatically*. When



completed, click **OK**.

- **Update Firmware:** Click this button to update the firmware of the selected print server.
- **Show Web Setup:** Click this button to open your web browser and launch the Configuration Utility. Alternately, you can double-click the print server in the Device List to launch the Configuration Utility.
- **Factory Reset:** Click this button to reload the factory settings of the print server.
- **Discover Device:** Click this button to search the connected print server again.
- **About:** Click this button to bring up a window containing the basic information of PS-Utility.
- **Close:** Click this button to exit PS-Utility.

3 Information Field: Display the basic information of the selected print server in the Device List.

4 Status Bar: Display the system status.

PS Wizard

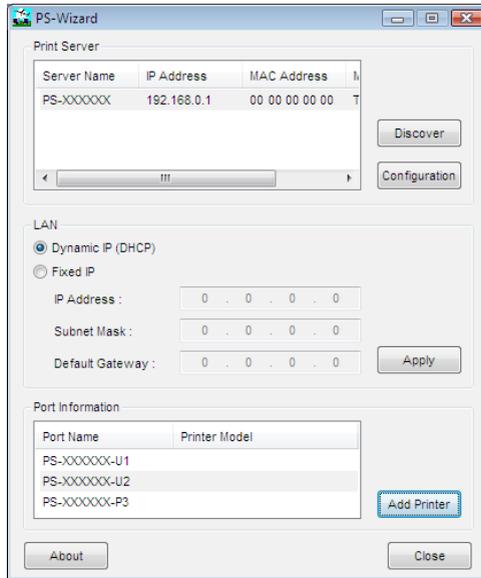
PS Wizard is a convenient utility that allows you to set up the print server's port connection.

Windows 2000/XP/2003/Vista

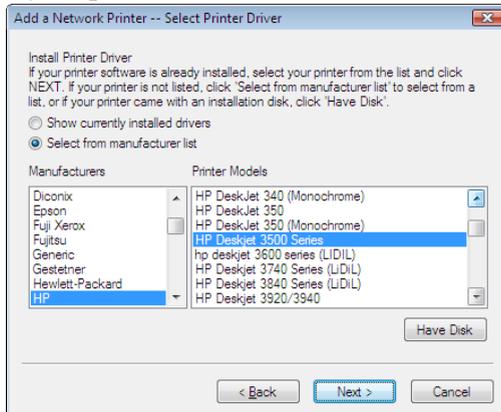
- 1) Insert the Installation CD-ROM into your computer's CD-ROM drive. Click **PS Wizard** and then click **2000/XP/Vista** from the Auto-Run menu screen.



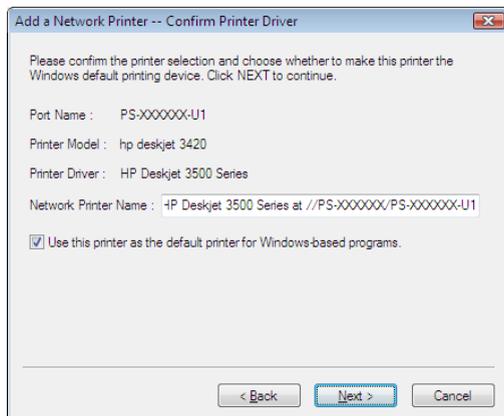
- 2) Select the print server, select the desired port and then click Add Printer.



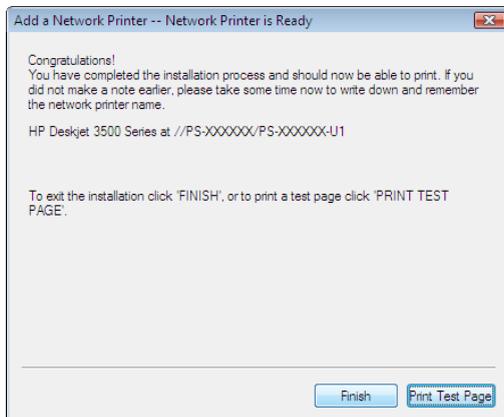
- 3) Click Select from manufacturer list. Select the appropriate driver for your printer and then click **Next**.



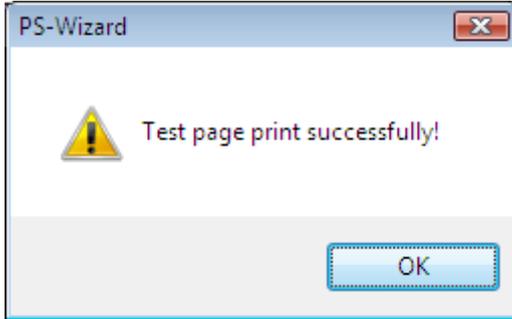
4) Click **Next**.



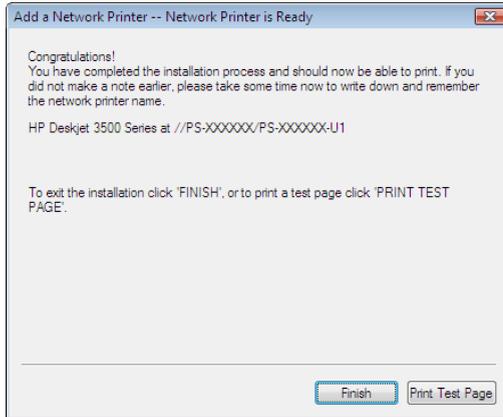
5) Click **Print Test Page**.



- 6) Click **OK**.



- 7) Click **Finish**.



- 8) Repeat steps 1 to 7 to add the printer to other computers on the network and to add another printer..

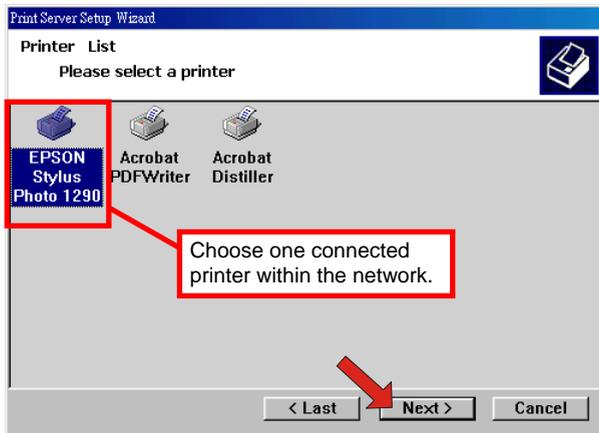
Windows 98SE/ME

1. Insert the Installation CD-ROM into your computer's CD-ROM drive, and click **PS Wizard** from the Auto-Run menu screen. The welcome screen appears as below. Click **Next >**.

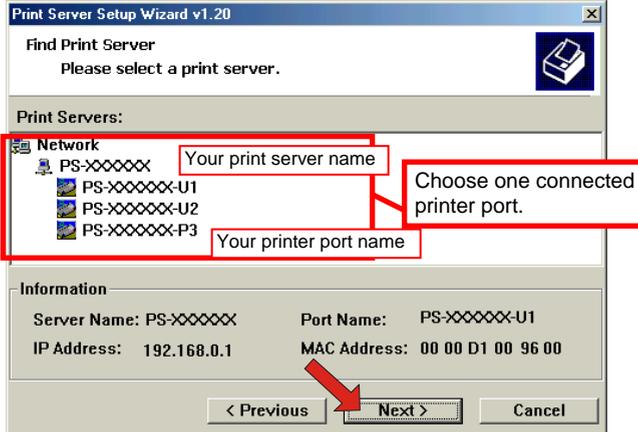


NOTE: For some specific printers, you may need to connect the printer to the computer and install the driver. In this case, connect it to the computer and install the driver first, and then connect it to the print server.

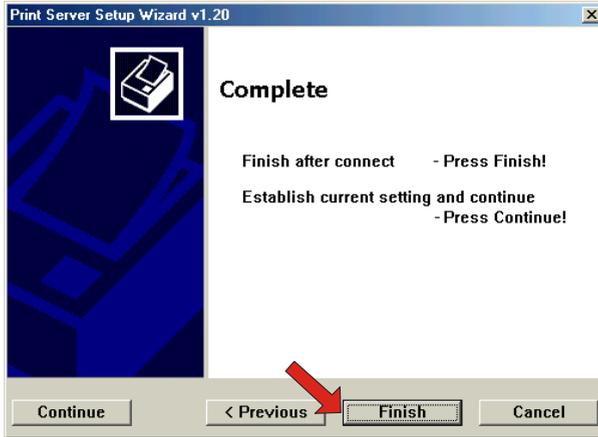
2. In the following window, select one printer in the Printer List to set up port connection, and then click **Next >**.



3. Select the desire printer port in the Print Server List, and click **Next >**.



4. The configuration is completed, click **Finish**.



5. Click **OK** to reboot the computer.



After rebooting, PS Wizard will help you to complete the port connection automatically. You can start your printing task without any complex configuration.

PS Monitor Utility Installation

PS Monitor will allow the print server to support HP GDI Printers.

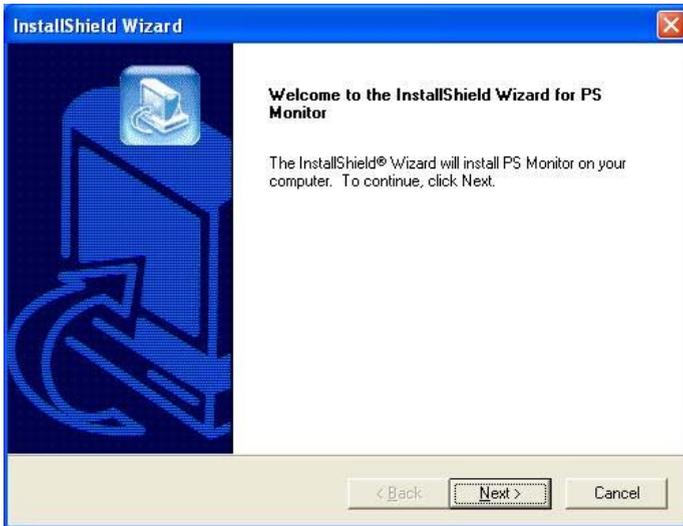
1. Click the Utility → PM Monitor from the Autorun. This program will lead you to finish the installation process of the PS Monitor step by step.



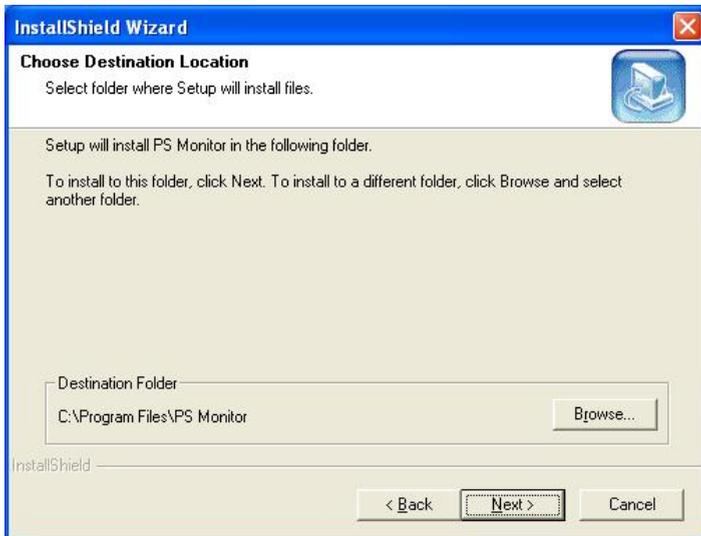
2. Choose the Language of your Windows system and click the “OK” button to the next step.



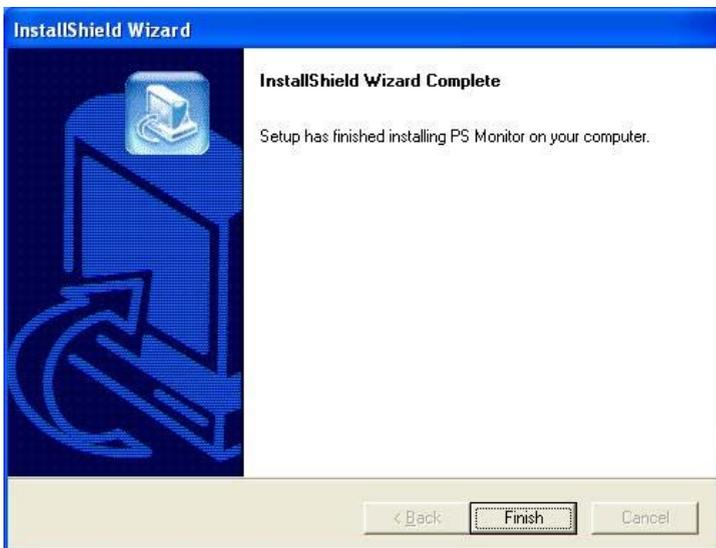
3. Click the “Next” button and start to install the PS Monitor.



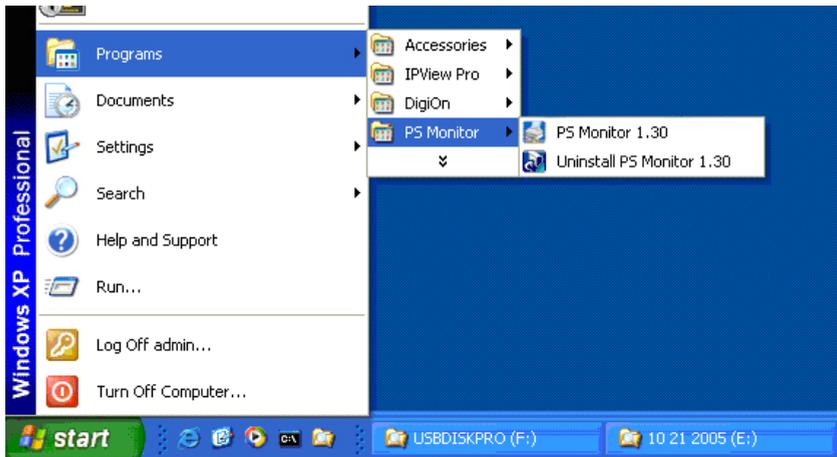
4. Specified the directory for of the PS Monitor to be installed inside and then click the “Next” button.



5. Click the “Finish” button to complete the installation.



- The installation is completed. Click the “Start”->”Program”->”PS Monitor”->”PS Monitor 1.30” to launch the PS Monitor.



- To verify if the PS Monitor is executed successfully, please check that the icon of PS Monitor is shown in the right side of bottom bar under your Windows system.



To add HP GDI printers onto your network, please proceed to “Printing in Windows” section and follow the proper operating system installation instructions.

WEB CONFIGURATION

You can access and manage the Wireless Print Server through: 1) the enclosed software PS-Utility, and 2) a web browser. This chapter describes the second method – the Web Configuration Utility, and explains how to set up your print server with the web browser.

Web Configuration Utility

First, launch your web browser (such as the Internet Explorer 6.0 used in this manual). Then, type ***http://192.168.0.1*** (the default IP address) in the Address bar and press [Enter] to enter the Management screen of the Configuration Utility.

TIP: *The computer's IP address must correspond with the print server's IP address in the same segment for the two devices to communicate. Extensive knowledge of LAN will be helpful in configuring the print server.*

Management

TRENDnet 54Mbps Wireless Multi-Port Print Server
TEW-P21G

Management

- System
- Wireless
- Network
- User
- Configuration
- Tools
- Help

SYSTEM

Device Status

Server Name	PS-5974BA
Model	TEW-P21G
Firmware Version	3.25 (2006-12-26)
MAC Address	00:03:1B:59:74:BA
IP Address	192.168.1.121 (Manual)
Up Time	0 days, 00:00:17

Printer Status

USB1

Printer Name	PS-5974BA-U1
Printer Speed	Off line
Printer Status	Off line
Total Print Jobs	0
Total Print Size	0 KBytes
Printing Status	Idle
Name	
MAC	
IP	
Protocol	
Spooling Size	0 Bytes
Printing Size	0 Bytes

USB2

Printer Name	PS-5974BA-U2
Printer Speed	Off line
Printer Status	Off line
Total Print Jobs	0
Total Print Size	0 KBytes
Printing Status	Idle
Name	
MAC	
IP	
Protocol	
Spooling Size	0 Bytes
Printing Size	0 Bytes

LPT3

Printer Name	PS-5974BA-P3
Printer Speed	High
Printer Status	Off line
Total Print Jobs	0
Total Print Size	0 KBytes
Printing Status	Idle
Name	
MAC	
IP	
Protocol	
Spooling Size	0 Bytes
Printing Size	0 Bytes

Ethernet Status

Link	Yes
Speed	100M bps
Full Duplex	Yes
Tx Packets	62
Tx Errors	0
Rx Packets	49
Rx Errors	0

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The Management Screen of the Configuration Utility

The Management screen displays the basic information of the print server, including the following four categories:

- **System**
- **Wireless**
- **Network**
- **User**

Management → System

As shown above, the **System** displays the status of your print server, printer, and network. Clicking **Refresh** will update the information.

Device Status

The information about the print server, including the firmware version, MAC/IP address, and up time, can be found in this field.

Device Status	
Server Name	: PS-5974BA
Model	: TEW-P21G
Firmware Version	: 3.25 (2005-12-26)
MAC Address	: 00 03 1B 59 74 BA
IP Address	: 192.168.1.121 (Manual)
Up Time	: 0 days, 16:38:33

Printer Status

The items in this field display the information of the printer, such as the given name for the printer, speed, printer status, and status of your printing tasks, etc.

Printer Status

USB1 : **Printer Name** : PS-5974BA-U1

Printer Speed : Off line

Printer Status : Off line

Total Print Jobs : 0

Total Print Size : 0 KBytes

Printing Status : Idle

Name :

MAC :

IP :

Protocol :

Spooling Size : 0 Bytes

Printing Size : 0 Bytes

USB2 : **Printer Name** : PS-5974BA-U2

Printer Speed : Off line

Printer Status : Off line

Ethernet Status

You can monitor the networking status in this field, including the network connection, speed, and the packets status.

Ethernet Status

Link : Yes

Speed : 100M bps

Full Duplex : Yes

Tx Packets : 3016

Tx Errors : 0

Rx Packets : 152522

Rx Errors : 0

Refresh

Management → Wireless

Click the **Wireless** item in the left column to display the information of the wireless LAN. Clicking **Refresh** will update the information.

TRENDnet 54Mbps Wireless Multi-Port Print Server
TEW-P21G

Management

- System
- Wireless**
- Network
- User

Configuration

- Tools
- Help

WIRELESS

Wireless Status

Connection Mode	: Infrastructure
Link	: No
SSID	: default (MAC : 00 00 00 00 00 00)
Channel	: 11
Transmission Rate	: 54M bps
Encryption	: No
Tx Packets	: 0
Tx Errors	: 0
Rx Packets	: 0
Rx Errors	: 0

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Wireless Status

The items in this field display the information of the wireless LAN, such as the connection mode (Infrastructure or Ad-Hoc), SSID, channel, data transfer rate, WEP encryption, and the packets status.

Management → Network

Click the **Network** item to display the information of the LAN. Clicking **Refresh** will update the information.

TRENDNET 54Mbps Wireless Multi-Port Print Server
TEW-P21G

Management

- System
- Wireless
- Network**
- User

Configuration

- Tools
- Help

NETWORK

Auto IP

DHCP/BOOTP	:	Disable	(IP : 0.0.0.0)
UPnP	:	Enable	(IP : 192.168.1.29)
MAC Rendezvous	:	Enable	(IP : 169.254.116.106)

TCP/IP Printing

LPR Printing	:	Status	:	Running
		Total Print Jobs	:	0
		Total Print Size	:	0 KBytes

Port @100-9101-9102) Printing	:	Status	:	Running
		Total Print Jobs	:	0
		Total Print Size	:	0 KBytes

IPP Printing	:	Status	:	Running
		Total Print Jobs	:	0
		Total Print Size	:	0 KBytes

FTP Printing	:	Status	:	Running
		Total Print Jobs	:	0
		Total Print Size	:	0 KBytes

E-mail Printing	:	Status	:	Running
		Total Print Jobs	:	0
		Total Print Size	:	0 KBytes

Microsoft Network Printing

SMB (Over NetBEUI) Printing	:	Status	:	Running
		Total Print Jobs	:	0
		Total Print Size	:	0 KBytes

SMB (Over NBT) Printing	:	Status	:	Running
		Total Print Jobs	:	0
		Total Print Size	:	0 KBytes

MAC AppleTalk Printing

AppleTalk Printing	:	Status	:	Running
		Total Print Jobs	:	0
		Total Print Size	:	0 KBytes

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Auto IP

This field contains the current settings of TCP/IP, including DHCP/BOOTP, UPnP, and MAC Rendezvous. The items in this field are configured in **Configuration > Network > TCP/IP**.

Auto IP		
DHCP/BOOTP	:	Disable (IP : 0.0.0.0)
UPnP	:	Enable (IP : 192.168.1.29)
MAC Rendezvous	:	Enable (IP : 169.254.116.186)

TCP/IP Printing

In this field, you can monitor the status of your printing tasks through TCP/IP.

TCP/IP Printing		
LPR Printing	:	Status : Running Total Print Jobs : 0 Total Print Size : 0 KBytes
Port (9100/9101/9102) Printing	:	Status : Running Total Print Jobs : 0 Total Print Size : 0 KBytes
IPP Printing	:	Status : Running Total Print Jobs : 0 Total Print Size : 0 KBytes
FTP Printing	:	Status : Running Total Print Jobs : 0 Total Print Size : 0 KBytes
E-mail Printing	:	Status : Running Total Print Jobs : 0 Total Print Size : 0 KBytes

Microsoft Network Printing

In this field, you can monitor the status of your printing tasks through Microsoft Network.

Microsoft Network Printing		
SMB (Over NetBEUI) Printing	Status	: Running
	Total Print Jobs	: 0
	Total Print Size	: 0 KBytes
SMB (Over NBT) Printing	Status	: Running
	Total Print Jobs	: 0
	Total Print Size	: 0 KBytes

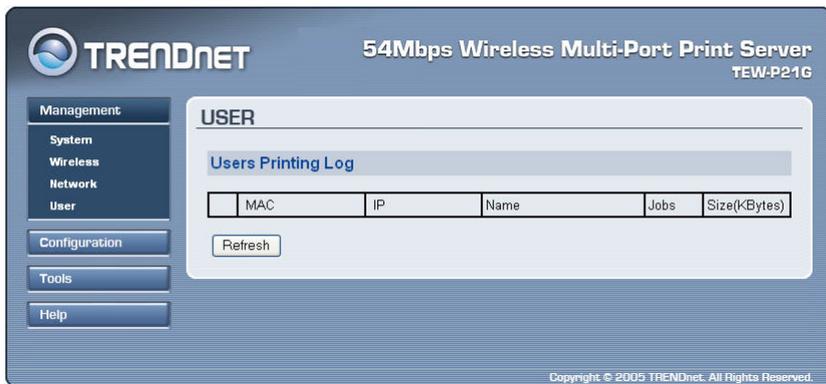
MAC AppleTalk Printing

In this field, you can monitor the status of your printing tasks through MAC AppleTalk.

MAC AppleTalk Printing		
AppleTalk Printing	Status	: Running
	Total Print Jobs	: 0
	Total Print Size	: 0 KBytes

Management → User

Click the **User** item in the left column to display the user(s) information.



TRENDnet 54Mbps Wireless Multi-Port Print Server
TEW-P21G

Management

- System
- Wireless
- Network
- User

Configuration

Tools

Help

USER

Users Printing Log

MAC	IP	Name	Jobs	Size(kBytes)
-----	----	------	------	--------------

Refresh

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Users Printing Log

The items in this field display the user(s) information, which include the user(s) MAC address, IP address, name, and status of printing tasks.

Configuration

Configuration → System

TRENDNET 54Mbps Wireless Multi-Port Print Server
TEW-P216

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SYSTEM

System Device

Server Name : PS-5974BA
Location :
Admin Contact :
Password : New Password :
Confirm Again :

Port Setting

USB1	Port Name	PS-5974BA-U1
	Description	
	PJL Printer	No
USB2	Port Name	PS-5974BA-U2
	Description	
	PJL Printer	No
LPT3	Port Name	PS-5974BA-P3
	Description	
	Speed	High
	PJL Printer	No

Save Cancel

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System Device

In this field, you can configure the basic information of your print server.

System Device			
Server Name	:	<input type="text" value="PS-5974BA"/>	
Location	:	<input type="text"/>	
Admin Contact	:	<input type="text"/>	
Password	:	New Password	<input type="text"/>
	:	Confirm Again	<input type="text"/>

- **Server Name:** Assign a name to the print server.
- **Location** (optional): Assign a location for the print server
- **Admin Contact** (optional): Assign the Admin Contact's name for the print server.
- **Password:** Enter the Administrator password (3-8 characters). To set up the password, please enter the password in the *New Password* box, and then enter the same one again in the *Confirm Again* box.

Port Settings

In this field, you can assign the *Port Name* for the print server, and the description for the USB port. It also allows you to select the **PJL Printer** setting (*Yes* or *No*).

Port Setting

USB1	: Port Name	: <input type="text" value="PS-5974BA-U1"/>
	Description	: <input type="text"/>
	PJL Printer	: No <input type="button" value="v"/>
USB2	: Port Name	: <input type="text" value="PS-5974BA-U2"/>
	Description	: <input type="text"/>
	PJL Printer	: No <input type="button" value="v"/>
LPT3	: Port Name	: <input type="text" value="PS-5974BA-P3"/>
	Description	: <input type="text"/>
	Speed	: High <input type="button" value="v"/>
	PJL Printer	: No <input type="button" value="v"/>

NOTE: *PJL (Print Job Language) has certain job requirements that must be met to work correctly. For more information, please refer to your printer's manual.*

Configuration → Wireless

TRENDNET 54Mbps Wireless Multi-Port Print Server TEW-P216

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WIRELESS

Wireless Interface

Connection Mode : Infrastructure
 Ad-Hoc

SSID : default (Manually Input or Select from List)
Wen2
Site Survey

Wireless Channel : 11

Transmission Rate : Fully Automatic

Encryption

Disable

WEP Encryption

Length : 64bits 128bits

Format : ASCII HEX

Key 1 :
Key 2 :
Key 3 :
Key 4 :

Encrypt Data Transmissions Using : Key 1

Authentication Type : Open System Shared Key Both

WPA-PSK

Preshared Key : PSK12345 (8-63 ASCII or 64 HEX characters)

Advanced Setting

Beacon Interval : 100 (ms)

Preamble : Long Short

Save Cancel

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Wireless Interface

- **Connection Mode:** Select one of the three connection modes.
 - **Infrastructure** (default) - Connects to compatibly configured wireless AP or router in a WLAN.

- **Ad-Hoc** - Connect to compatibly configured wireless clients in the peer-to-peer mode.
- **SSID:** Assign the SSID in this box. You can manually input the name or select one from the pull-down menu. To search the available wireless AP within the network, click the **Site Survey** button.
- **Wireless Channel:** Select the channel from the pull-down menu. The default setting is **11**.
- **Transmission Rate:** Select the data transmit rate from the pull-down menu. The default setting is **Fully Automatic**.

Wireless Interface	
Connection Mode	<input checked="" type="radio"/> Infrastructure <input type="radio"/> Ad-Hoc
SSID	<input type="text" value="default"/> (Manually Input or Select from List) <input type="text" value="Wen2"/> <input type="button" value="Site Survey"/>
Wireless Channel	<input type="text" value="11"/>
Transmission Rate	<input type="text" value="Fully Automatic"/>

WEP Encryption

This field allows you to configure the settings of data encryption. Please remember that the WEP key must be set before the data encryption is enforced.

- **WEP Encryption:** This option allows you to select **Disable**, **64 bits**, and **128 bits** for the encryption setting.
- **WEP Key Format:** You can decide the network key to be encoded by **ASCII** (ASCII characters) or **HEX** (hexadecimal digitals).

Then, enter the key(s) for the network in the **Key** box (1~4).

Encryption

Disable

WEP Encryption

Length : 64bits 128bits

Format : ASCII HEX

Key 1 :

Key 2 :

Key 3 :

Key 4 :

Encrypt Data Transmissions Using : ▾

Authentication Type : Open System Shared Key Both

WPA-PSK

Preshared Key : (8-63 ASCII or 64 HEX characters)

Advanced Setting

This field allows you to configure more settings, including:

- **Beacon Interval:** Enter the number of beacon interval time in millisecond.
- **Preamble:** This option allows you to set the length of preamble. Setting options are: *Long* - it is set to 144 bits; *Short* - it is set to 72 bits.
- **Authentication Type:** You can set the authentication type by selecting the settings: *Open System*, *Shared Key*, and *Both*.

Advanced Setting

Beacon Interval : (ms)

Preamble : Long Short

TIP: Once you have changed the settings in each option, click **Save** to store the settings, or **Cancel** to abandon.

Configuration → Network

54Mbps Wireless Multi-Port Print Server
TEW-P216

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- Tools
- Help

NETWORK

TCP/IP

IP Address : Manually Assign
IP Address :
Subnet Mask :
Default Gateway :
 Automatically Assign

DNS Server Address : 1.
2.

UPnP : Enable Disable

MAC Rendezvous : Enable Disable

Second HTTP Port : Enable Disable
Port Number :
(For Remote Web Configuration and IPP Printing)

Microsoft Network

Workgroup :

AppleTalk

AppleTalk Zone :

USB1 : Chooser Name : PS-5974BA-U1
Printer Type :
PostScript Level :
Font Group :

USB2 : Chooser Name : PS-5974BA-U2
Printer Type :
PostScript Level :
Font Group :

LPT3 : Chooser Name : PS-5974BA-P3
Printer Type :
PostScript Level :
Font Group :

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TCP/IP

This field contains three options that allow you to configure the TCP/IP setting: **IP Address**, **UPnP**, and **MAC Rendezvous**.

- **IP Address:** This option allows you to set the IP address manually or automatically. When you choose *Manually Assign*, you should enter the related information in the following boxes, including *IP Address*, *Subnet Mask*, and *Default Gateway*.
- **UPnP:** This option allows you to enable or disable UPnP mode.
- **MAC Rendezvous:** This option allows you to enable or disable MAC Rendezvous mode.

TCP/IP	
IP Address	<input checked="" type="radio"/> Manually Assign IP Address : <input type="text" value="192.168.1.121"/> Subnet Mask : <input type="text" value="255.255.255.0"/> Default Gateway : <input type="text" value="192.168.1.254"/> <input type="radio"/> Automatically Assign
DNS Server Address	1. <input type="text" value="0.0.0.0"/> 2. <input type="text" value="0.0.0.0"/>
UPnP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
MAC Rendezvous	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Second HTTP Port	<input type="radio"/> Enable <input checked="" type="radio"/> Disable Port Number : <input type="text" value="0"/> (For Remote Web Configuration and IPP Printing)

Microsoft Network

Enter the name of the Workgroup that you want the print server associated with in this field.

Microsoft Network	
Workgroup	: <input type="text" value="WORKGROUP"/>

AppleTalk

Enter the AppleTalk Zone name in the box. In the following options, enter the related configuration, such as the printer type.

- **USB1, USB2, LPT3**
 - **Chooser Name:** Display the print server's Port name.
 - **Printer Type:** Enter the printer's type in this box.
 - **PostScript Level:** Select from the pull-down menu (*Level 1* or *Level 2*).
 - **Font Group:** Select from the pull-down menu.

AppleTalk			
AppleTalk Zone	:	*	<input type="text"/>
USB1	:	Chooser Name	: PS-5974BA-U1
		Printer Type	: <input type="text" value="LaserWriter"/>
		PostScript Level	: <input type="text" value="Level 2"/>
		Font Group	: <input type="text" value="Standard 35"/>
USB2	:	Chooser Name	: PS-5974BA-U2
		Printer Type	: <input type="text" value="LaserWriter"/>
		PostScript Level	: <input type="text" value="Level 2"/>
		Font Group	: <input type="text" value="Standard 35"/>
LPT3	:	Chooser Name	: PS-5974BA-P3
		Printer Type	: <input type="text" value="LaserWriter"/>
		PostScript Level	: <input type="text" value="Level 2"/>
		Font Group	: <input type="text" value="Standard 35"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>			

TIP: Once you have changed the settings in each option, click **Save** to store the settings, or **Cancel** to abandon.

Configuration → User

The screenshot shows the configuration interface for a TRENDNET 54Mbps Wireless Multi-Port Print Server (TEW-P216). The page is titled "USER" and is divided into several sections:

- Printing Control:** Contains two options: "Enable User Printing Control" (radio buttons for Yes and No, with No selected) and "Allow Undefined Users Printing" (radio buttons for Yes and No, with No selected). Below these are "Save" and "Cancel" buttons.
- Define Users:** Contains an "Add User" section with input fields for "User Name", "MAC Address", and "Printing Access" (radio buttons for Yes and No, with Yes selected). An "Add" button is to the right. Below this is a "Delete User" section with a dropdown menu and a "Delete" button.
- User List:** A table with columns for "Name", "MAC", and "Printing Access".

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Printing Control

By configuring the **Enable User Printing Control** option (*Yes* or *No*), the user in the User List is permitted to access the print server or not. For the user(s) who is not in the User List, you can also limit the access right by setting the **Allow Undefined Users Printing** option to *Yes* or *No*.

Define Users

You can add/delete the user(s) to/from the User List. The User List at the bottom of the screen displays the current defined user and related information for the print server.

TIP: Once you have changed the settings in each option, click **Save** to store the settings, or **Cancel** to abandon.

Configuration → E-mail

The screenshot shows the configuration interface for a TRENDnet 54Mbps Wireless Multi-Port Print Server (TEW-P216). The left sidebar contains navigation buttons for Management, Configuration, System, Wireless, Network, User, Email, and SNMP. The main content area is titled 'E-MAIL' and is divided into three sections: 'E-mail Account', 'E-mail Notification', and 'E-mail Printing (To USB1 Port)'. Each section contains several input fields and radio buttons for configuration.

TRENDnet 54Mbps Wireless Multi-Port Print Server
TEW-P216

E-MAIL

E-mail Account

Print Server E-mail Address :

Incoming E-mail (POP3) Server Address :

Outgoing E-mail (SMTP) Server Address :

Account Name :

Password :

E-mail Notification

Enable e-mail notification for printer status changing : Yes No

Notification e-mail will be sent to Admin's e-mail address.

Admin E-mail Address :

(Use ',' to separate multiple e-mail address)

E-mail Printing (To USB1 Port)

E-mail Printing (ASCII Text Only) : Enable Disable

Receive E-mail Interval : 15 (minutes)

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E-mail Account

You can assign an E-mail address to the print server, so that your mail of the account can be printed out directly through the printer (ASCII text only). To enable this function, enter the E-mail account in the **Print Server E-mail Address** box.

- **Incoming E-mail (POP3) Server Address:** Enter the server address that is used to receive your E-mail in this box.
- **Outgoing E-mail (SMTP) Server Address:** Enter the server address that is used to send your E-mail in this box.

If your mail server needs to verify the user when sending E-mail, you have to input the **Account Name** and **Password**.

E-mail Account	
Print Server E-mail Address	: <input type="text"/>
Incoming E-mail (POP3) Server Address	: <input type="text"/>
Outgoing E-mail (SMTP) Server Address	: <input type="text"/>
Account Name	: <input type="text"/>
Password	: <input type="text"/>

E-mail Notification

You can set the print server to send an alter message when the printer status changes through E-mail. To enable this function, set the **Enable e-mail notification for printer status changing** option to **Yes**. Then, input the administrator's E-mail address in the **Admin E-mail Address** box.

E-mail Notification	
Enable e-mail notification for printer status changing	: <input type="radio"/> Yes <input checked="" type="radio"/> No
Notification e-mail will be sent to Admin's e-mail address.	
Admin E-mail Address	: <input type="text"/> (Use ',' to separate multiple e-mail address)

E-mail Printing

- **E-mail Printing (ASCII Text Only):** Select **Enable** to enable the E-mail printing function.
- **Receive E-mail Interval:** Enter the number in this box to set up the time (in minute) to check/receive E-mail regularly.

E-mail Printing (To USB1 Port)

E-mail Printing (ASCII Text Only) : Enable Disable

Receive E-mail Interval : (minutes)

Save

Cancel

TIP: Once you have changed the settings in each option, click **Save** to store the settings, or **Cancel** to abandon.

Configuration → SNMP

The screenshot shows the configuration interface for the Trendnet 54Mbps Wireless Multi-Port Print Server (TEW-P216). The page is titled "SNMP" and features a sidebar with navigation options: Management, Configuration, System, Wireless, Network, User, Email, and SNMP. The main content area is titled "SNMP Management" and contains three community settings:

Community	Name	Access Right
Community 1	public	Read/Write
Community 2		Read Only
Community 3		Read Only

At the bottom of the configuration area are "Save" and "Cancel" buttons. The footer of the page reads "Copyright © 2005 TRENDnet. All Rights Reserved."

SNMP Management

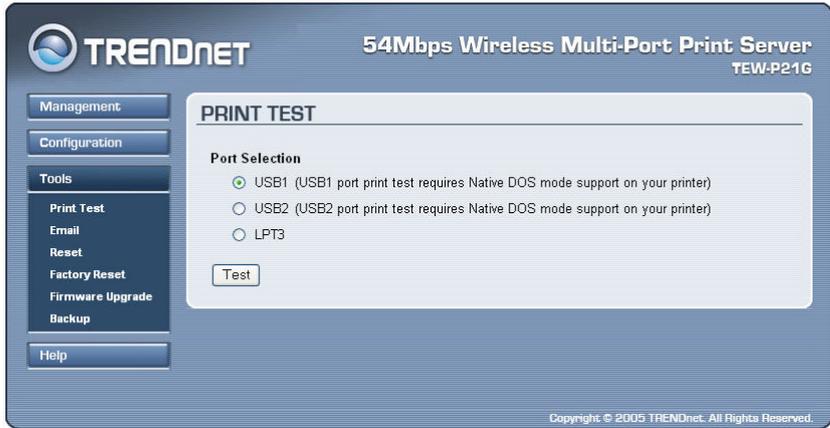
SNMP (Simple Network Management Protocol) is a set of protocols for managing complex networks

- **Community 1/2/3:** Enter a name in the **Name** box, and configure the **Access Right** by selecting *Read Only* or *Read/Write* from the pull-down menu.

TIP: Once you have changed the settings in each option, click **Save** to store the settings, or **Cancel** to abandon.

Tools

Tool → Print Test



Print Test

Choose one of the print ports and click ***Test*** to print a test page.

Tool → E-mail



Test E-mail Account

Click **Test** to send a test E-mail to the given administrator's E-mail address.

Receive E-mail

Click **Yes** to immediately check and receive E-mail, and then print out the mail when available.

Tool → Reset



Reset

Click **Yes** to immediately reset the print server.

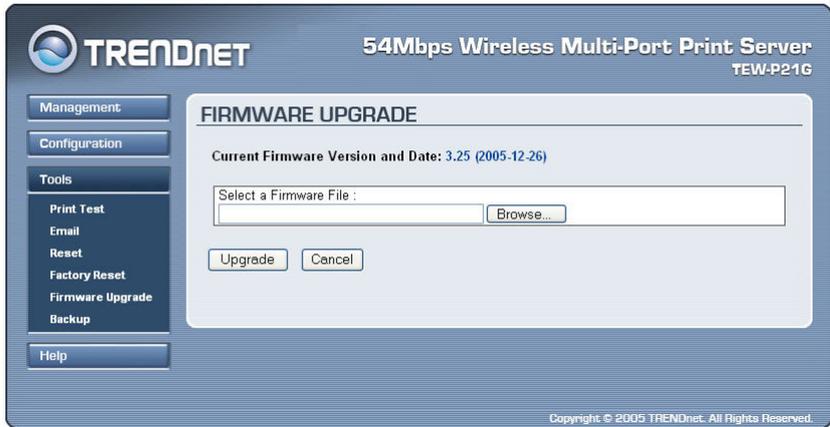
Tool → Factory Reset



Factory Reset

Click **Yes** to reload the factory settings of the print server.

Tool → Firmware Upgrade



Firmware Upgrade

When a new version of firmware is available (e.g. downloading from the manufacturer's website), you can upgrade the firmware of your print server. Click **Browse** to point to the firmware file, and then click **Upgrade**.

Tool → Backup



Backup Device Configuration to File

Click **Backup** to backup your current configuration of the print server to file and then save in the computer.

Restore Device Configuration from File

You can reload a configuration that you saved before. Click **Browse** to point to the backup file, and then click **Restore**.

Help



This screen displays the information of the print server.

PRINTING IN WINDOWS 95/98/ME

The Print Server can provide print services to TCP/IP networks using the LPR/LPD network printing protocol. Most UNIX systems are capable of supporting LPD, as is Windows NT/2000.

This LPR for TCP/IP Printing client gives Windows 95/98/ME workstations the ability to print using the LPR/LPD printing protocol. Though it is possible to print to Print Servers from Windows 95/98/Me, this capability is useful if primarily administer your network from UNIX systems, or if you want to print from workstations that are only accessible through IP routing.

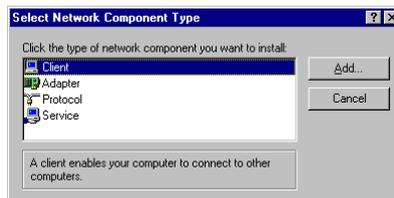
Installing the LPR for TCP/IP Printing Client

Before your Windows 95/98/ME workstation can print using the LPR protocol, you will need to install the client program, as follows:

1. Make sure that you have installed the TCP/IP protocol, and have properly configured the Windows 95/98/ME TCP/IP settings. You can install the protocol from the Network control panel if necessary.
2. From the **Start** menu, choose the **Settings** submenu, then the **Control Panel** item within it. Windows will display the Control Panel folder.
3. Double-click on the Network icon in the Control Panel folder.

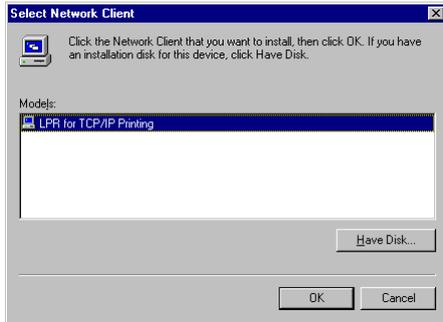


4. Click on the **Add...** button on the **Configuration** tab.
5. Windows will ask for the type of component to add. Select Client and click **Add...** to continue.

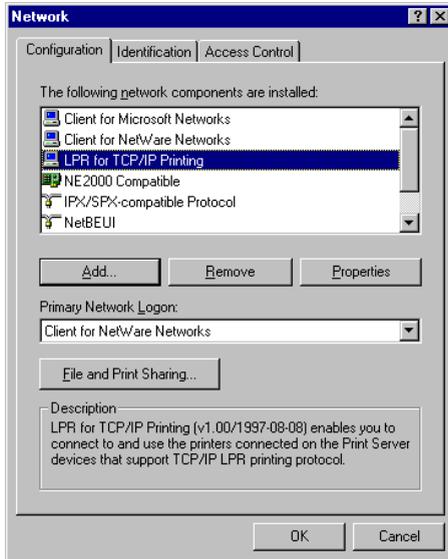


6. When Windows asks you to select a network client, click the **Have Disk...** button.

7. Insert the Print Server installation CD in your computer's CD-ROM, enter the proper pathname (for example , D:\ lpr), and click **OK**.
8. Select the LPR for TCP/IP Printing client and click **OK**.



9. Windows will copy the necessary files, and return to the Network dialog. Click **OK** to let Windows restart.



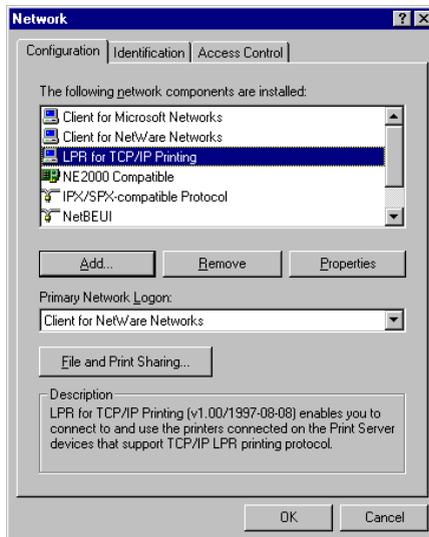
Adding LPR Printer Ports

Once you have installed the client, and have enabled TCP/IP printing for the Print Servers, then you need to add a printer port for each printer you will be printing to using the lpr/lpd protocol. To add a printer port,

1. From the **Start** menu, choose the **Settings** submenu, then the **Control Panel** item within it. Windows will display the Control Panel folder.
2. Double-click on the **Network** icon in the Control Panel folder.

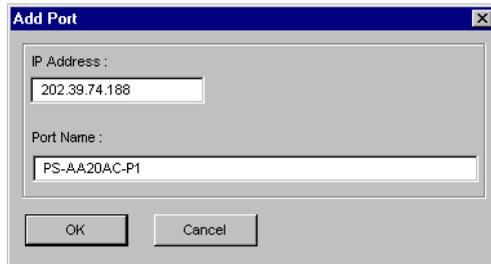


3. Choose the LPR for TCP/IP Printing client and click the **Properties** button.

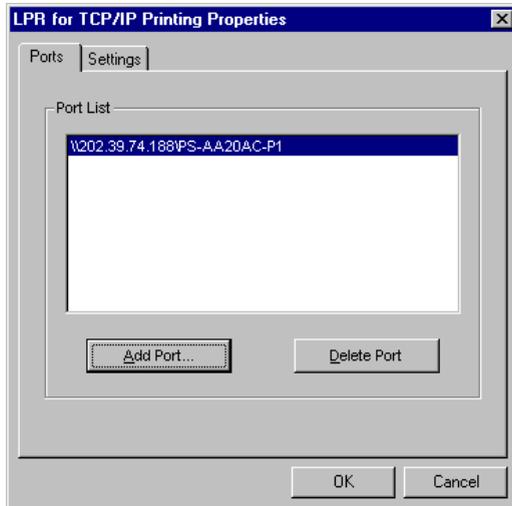


4. Click the **Add Port...** button to add a new lpd-accessible printer port.
5. Enter the IP address of the Print Server and the name of the printer port that you will be printing to, then press OK.

Hint: You can get the Port name (same as print name) from the print server's system information through web browser. Please refer page 44-46. Please make sure the port name is correspondence to the port you connected.



6. Click **OK** to leave the LPR for TCP/IP Printing Properties window.



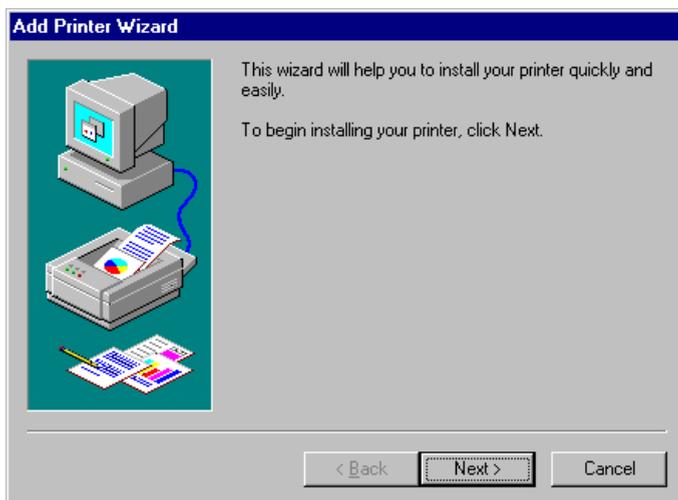
Printing from Windows 95/98/ME

After you have added the necessary printer ports, you can add a printer device for printing to the port. To enable printing to an lpr-accessible printer port from Windows 95/98/ME:

1. From the Start menu, choose the Settings submenu, then the Printers item within it. Windows will display the Printers folder.
2. Double-click on the Add Printer icon in the Printers folder.



Windows will start the Add Printer Wizard.

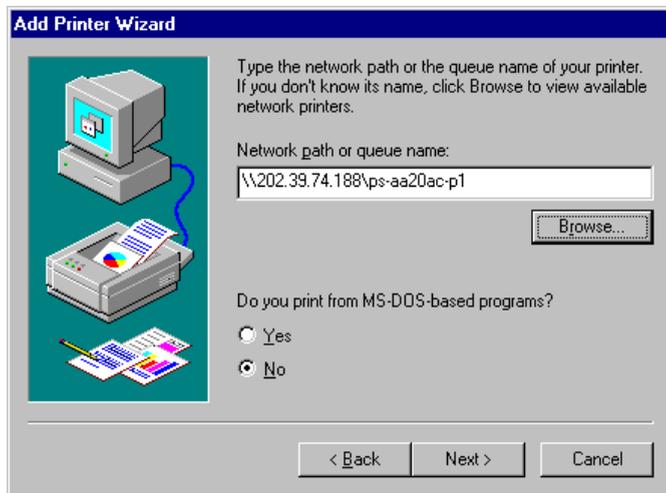


Click the **Next >** button to continue to the next screen.

3. Choose the **Network Printer** selection and click the **Next >** button to continue.



4. Enter the name of the port, as displayed in the LPR for TCP/IP Printing Port List.



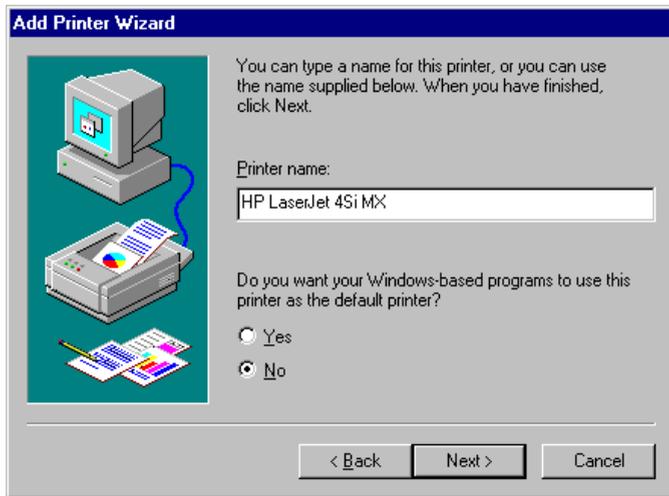
Alternatively, you can click **Browse...** and locate the printer port. TCP/IP printing ports are located under the Entire Network icon, within the Print Servers - TCP/IP LPR icon.



Press **OK** when you have located the proper printer port.

Click **Next >** to continue to the next step.

5. At this point Windows will ask you to choose the correct printer driver for the printer. Choose your printer's make and model from the list, or use the driver disk included with the printer. When you have chosen the correct printer, click **Next >** to continue.
6. Windows will then ask for a name for the new printer, and ask whether or not you want to set the printer as the Windows default printer. Click **Finish** (or **Next >**) to continue.



7. Windows may ask you whether or not you wish to print a test page to make sure that the printer will work correctly. When the test page is done printing, you will be asked whether or not the test page printed.

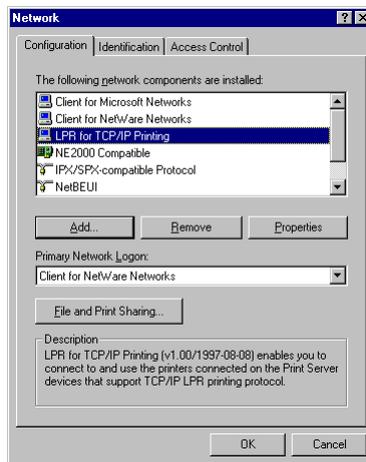
Setting TCP/IP Printing Settings

The lpr client's Properties dialog allows you to change several of the client's settings. To change these settings,

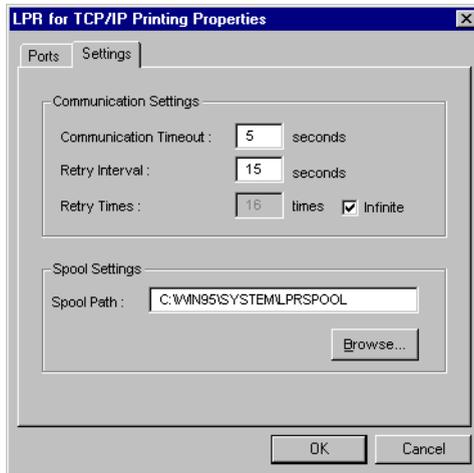
1. From the **Start** menu, choose the **Settings** submenu, then the **Control Panel** item within it. Windows will display the Control Panel folder.
2. Double-click on the **Network** icon in the Control Panel folder.



3. Choose the LPR for TCP/IP Printing client and click the **Properties** button.



4. Click on the Settings tab to access the lpr client settings. Change the settings as necessary, and press **OK** to let the changes take effect.



The parameters are as follows:

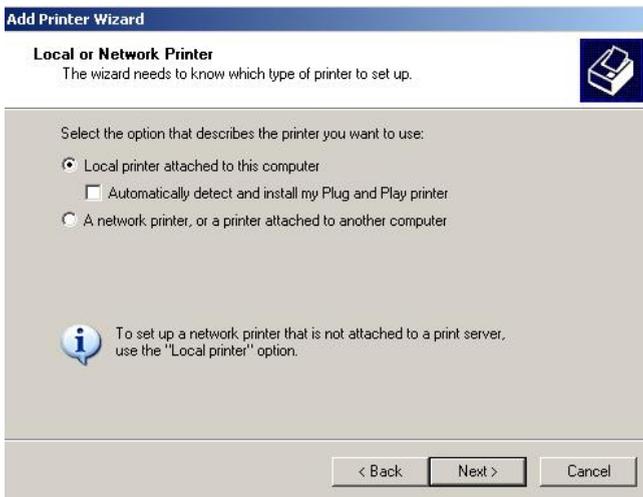
- ◆ **Communication Timeout** Determines how long, in seconds, the system will wait before determining that it has lost connection with lpr/lpd print servers.
- ◆ **Retry Interval** Determines how long, in seconds, the system will wait before retrying a lost connection.
- ◆ **Retry Times** Determines how many times the system will retry a lost connection with an lpr/lpd print server. If **Infinite** is checked, it will retry indefinitely.
- ◆ **Spool Path** Gives the directory path where the system will temporarily store lpr/lpd print server job files.

PRINTING IN WINDOWS 2000/XP/VISTA

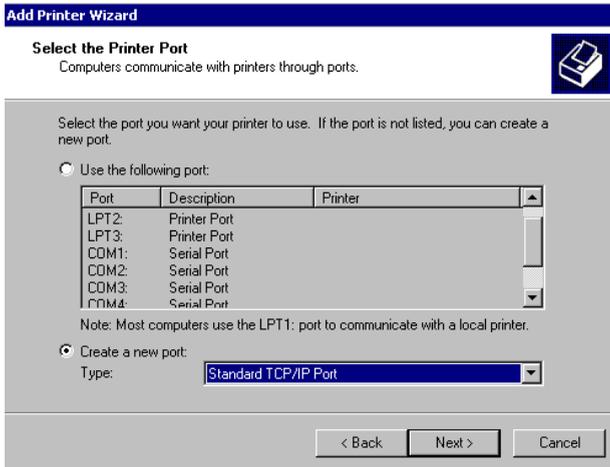
Setting Up Windows 2000 TCP/IP Printing

Following is the correct procedure for setting up TCP/IP LPR printing under Windows 2000.

Click **Start > Settings > Printers**. Double Click “Add Printer”
Select “Local Printer”



Create a new “Standard TCP/IP Port”

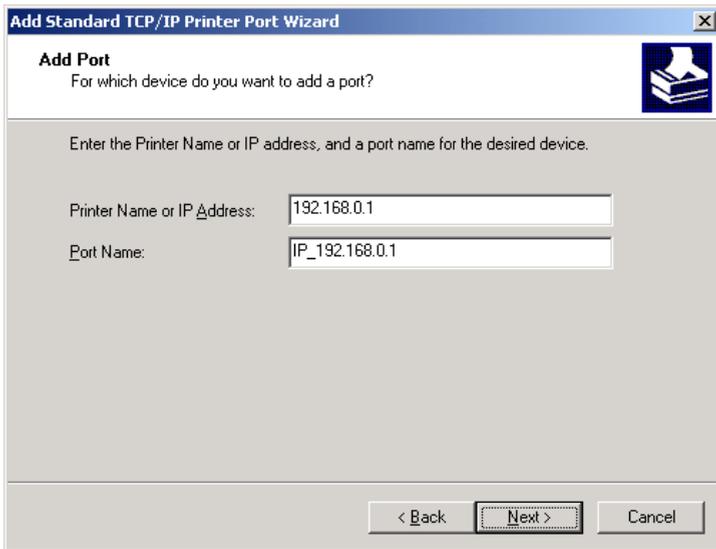


Click “Next”

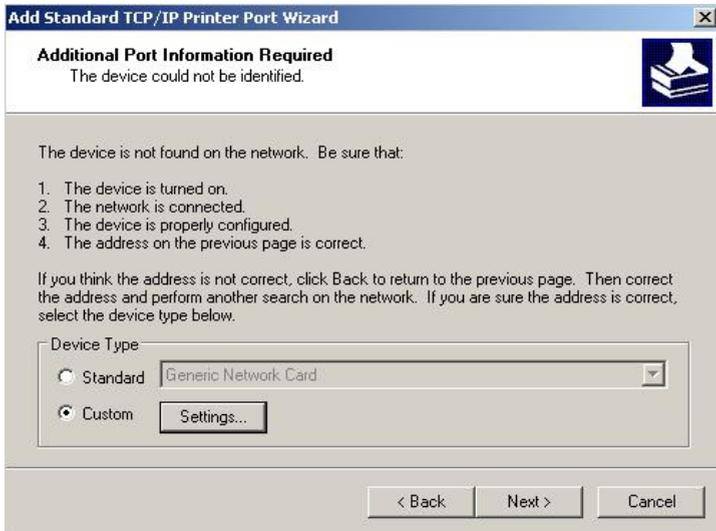


Input the IP Address of the Print Server, and the Port name of the Port that will be printed to, then click “**Next**”.

Hint: You can get the port Name (same as Printer Name) from the print server’s system information through web browser. Please refer page 44-46. Please refer page 48-51. Please make sure the port name is correspondence to the port you connected (etc.USB1, USB2, LPT3)



Select “**Custom**”, and click “**Settings**”.



Select **“LPR”**, and put the Port name in the field labeled **“Queue Name”**. Then Click **“OK”**.

Configure Standard TCP/IP Port Monitor [?] [X]

Port Settings

Port Name: IP_192.168.0.1

Printer Name or IP Address: 192.168.0.1

Protocol

Raw LPR

Raw Settings

Port Number: 9100

LPR Settings

Queue Name: PS-XXXXXX-U1

LPR Byte Counting Enabled

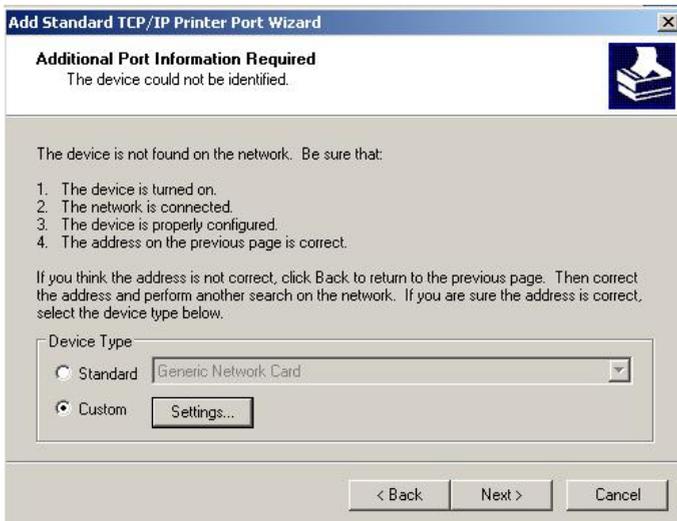
SNMP Status Enabled

Community Name: public

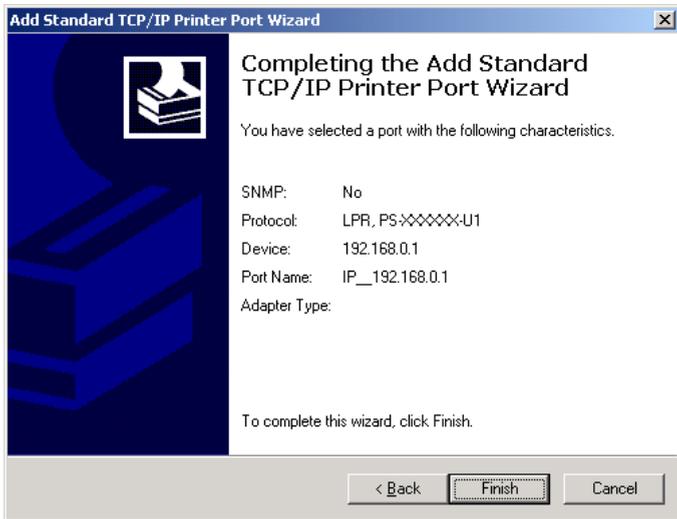
SNMP Device Index: 1

OK Cancel

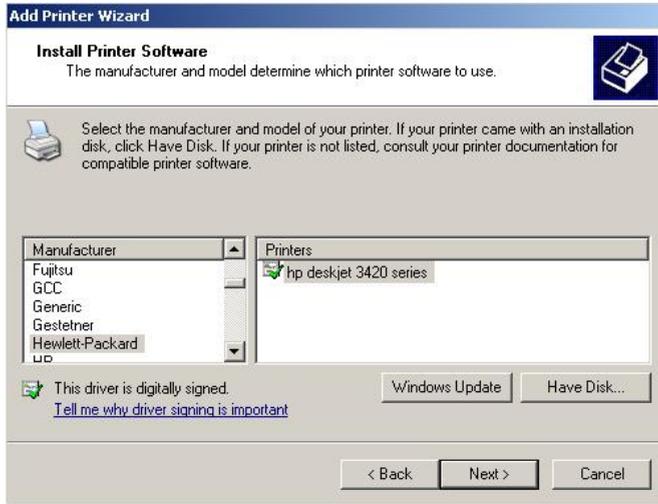
Click **Next**.



Click **“Finish”**



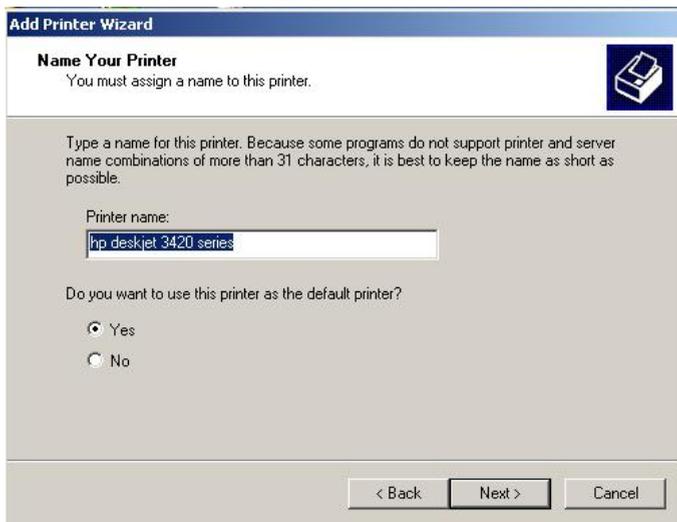
The Printer Install Wizard will now prompt for drivers. Select the correct Make and Model, or click “**Have Disk**”, to provide the Manufacturer’s Driver Disk.



Click “**Next**”.



Select a **“Printer Name”**.



Add Printer Wizard

Name Your Printer
You must assign a name to this printer.

Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.

Printer name:

Do you want to use this printer as the default printer?

Yes
 No

< Back Next > Cancel

Sharing can be enabled here.



Add Printer Wizard

Printer Sharing
You can share this printer with other network users.

If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users.

Do not share this printer
 Share name:

< Back Next > Cancel

Also, a Test Page can be printed to confirm proper configuration.



When the Test Page has been printed, click “**Finish**” to complete the installation.



Setting Up Windows XP TCP/IP Printing

Following is the correct procedure for setting up TCP/IP LPR printing under Windows XP.

Click Start > **Printer and Faxes**

Double Click “**Add a Printer**”

Click “**Next**”



Select “Local Printer”



Create a new “Standard TCP/IP Port”

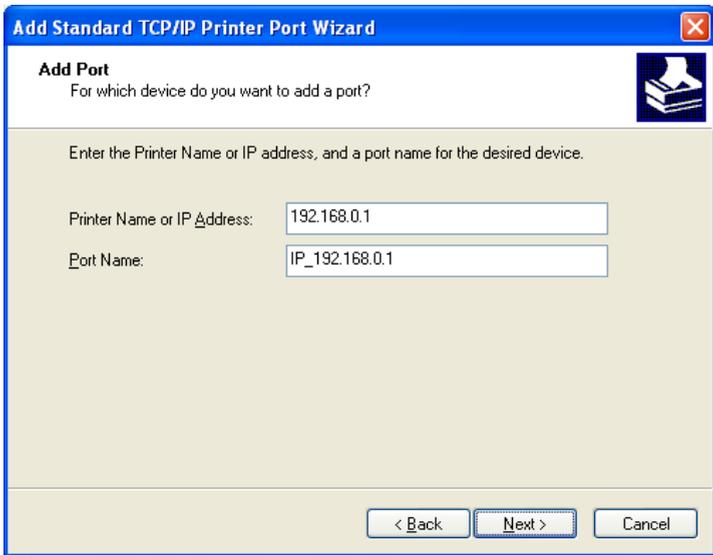


Click “Next”



Input the IP Address of the Print Server, and the Port name of the Port that will be printed to, then click “Next”.

Hint: You can get the Port name (same as printer name) from the print server’s system information through web browser. Please refer page 48-51. Please make sure the port name is correspondence to the port you connected (etc.USB1, USB2, LPT3)



Select “**Custom**”, and click “**Settings**”.



Select “**LPR**”, and put the Port name in the field labeled “**Queue Name**”. Then Click “**OK**”.

Configure Standard TCP/IP Port Monitor

Port Settings

Port Name: IP__192.168.0.1

Printer Name or IP Address: 192.168.0.1

Protocol

Raw LPR

Raw Settings

Port Number: 9100

LPR Settings

Queue Name: PS-XXXXXXXX-U1

LPR Byte Counting Enabled

SNMP Status Enabled

Community Name: public

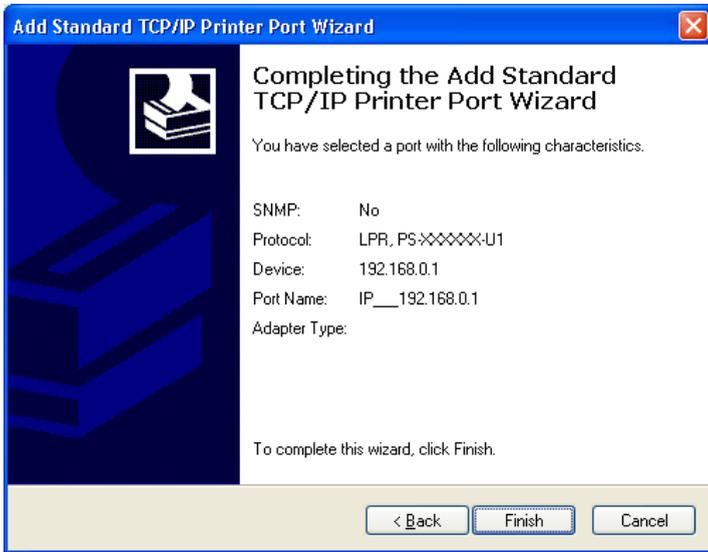
SNMP Device Index: 1

OK Cancel

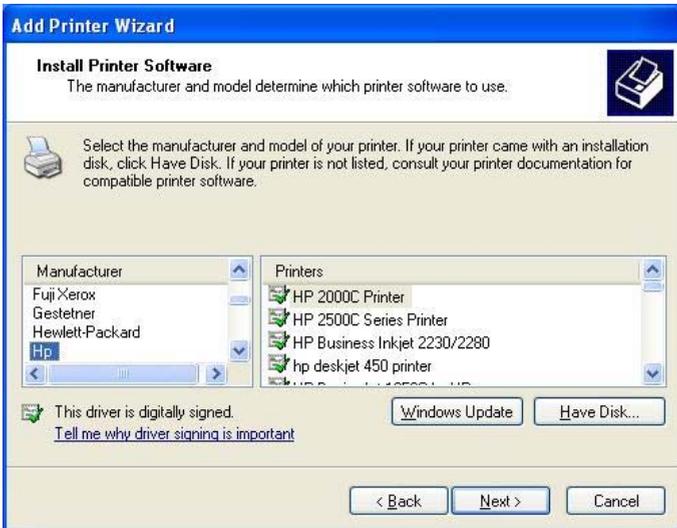
Click “**Next**”.



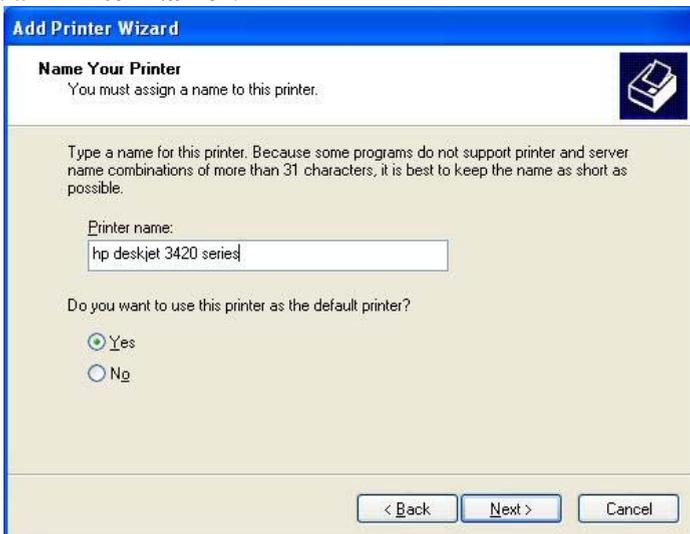
Click **“Finish”**



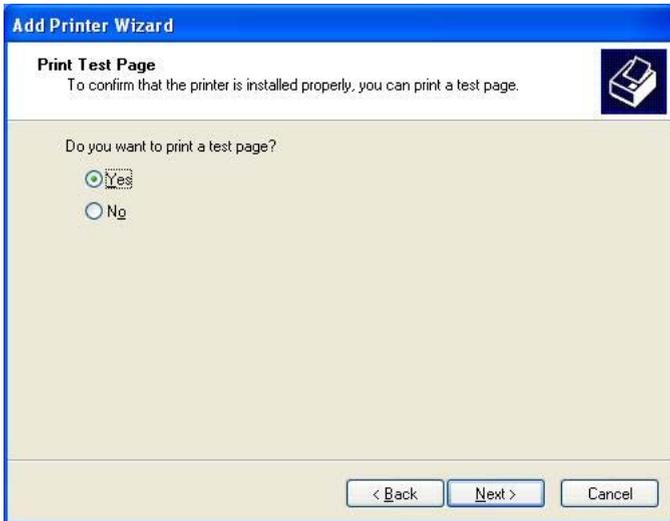
The Printer Install Wizard will now prompt for drivers. Select the correct Make and Model, or click “**Have Disk**”, to provide the Manufacturer’s Driver Disk. Click “**Next**”.



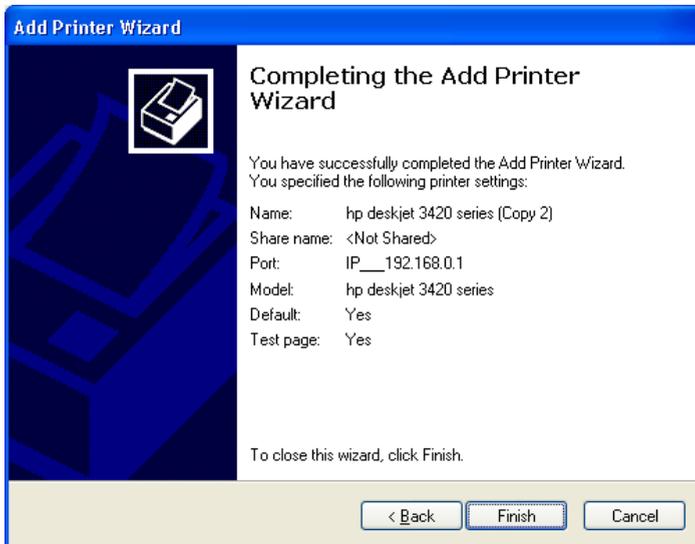
Select a “Printer Name”.



A Test Page can be printed to confirm proper configuration.



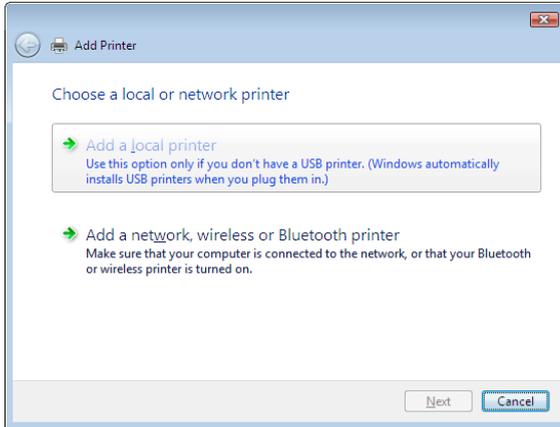
When the test page has been printed, click “**Finish**” to complete the installation.



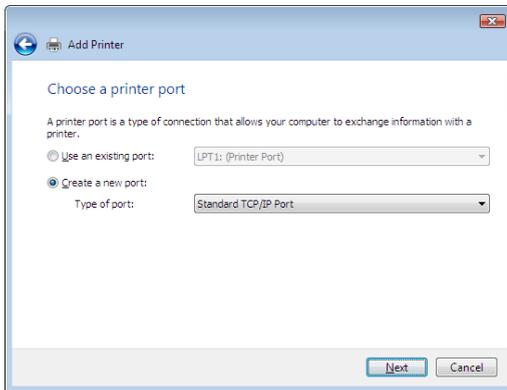
Setting Up Windows Vista TCP/IP Printing

Following is the correct procedure for setting up TCP/IP LPR printing under Windows Vista.

Click Start > **Printer and Faxes**
Double Click “**Add a Printer**”
Click “**Next**”

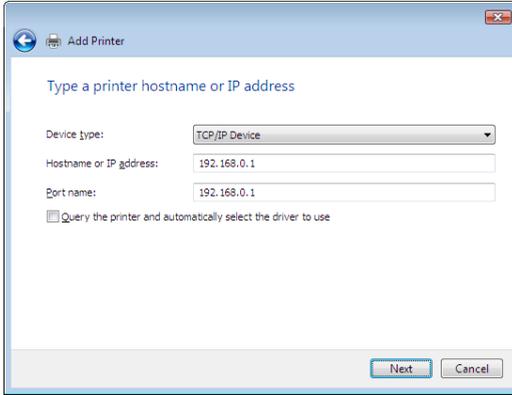


Select **Create a new port**, select **Standard TCP/IP Port** and then click **Next**.

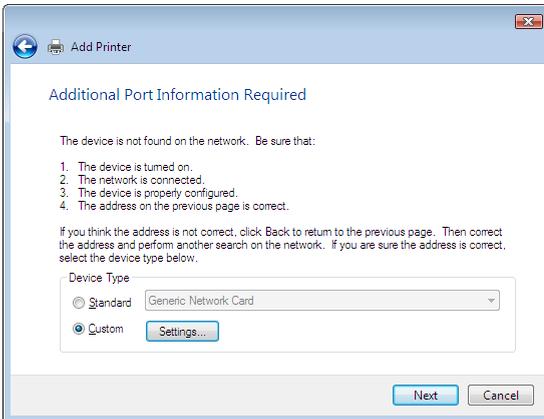


Input the IP Address of the Print Server, and the Port name of the Port that will be printed to, then click “**Next**”.

Hint: You can get the Port name from the print server’s system information through web browser. Please refer page 48-51.



Select **“Custom”**, and click **“Settings”**.



Select **“LPR”**, and put the Port name in the field labeled **“Queue Name”**. Then Click **“OK”**.

Configure Standard TCP/IP Port Monitor

Port Settings

Port Name: 192.168.0.1

Printer Name or IP Address: 192.168.0.1

Protocol

Raw LPR

Raw Settings

Port Number: 9100

LPR Settings

Queue Name: PS-XXXXXX-U1

LPR Byte Counting Enabled

SNMP Status Enabled

Community Name: public

SNMP Device Index: 1

OK Cancel

Click “Next”.

Add Printer

Additional Port Information Required

The device is not found on the network. Be sure that:

1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.

If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.

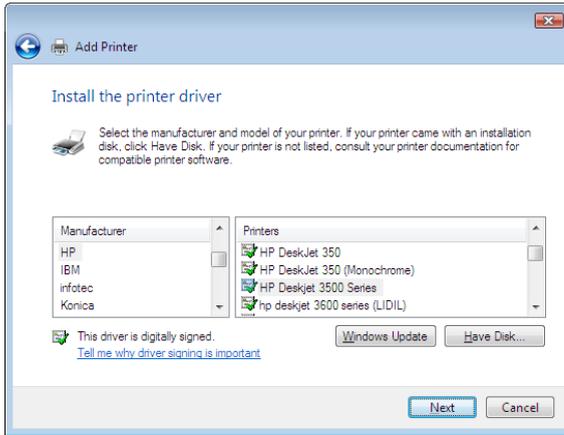
Device Type

Standard Generic Network Card

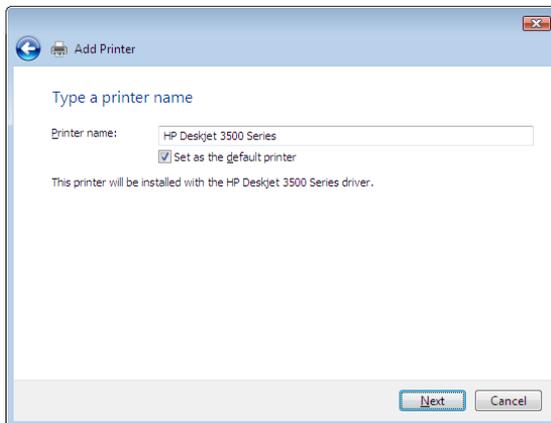
Custom Settings...

Next Cancel

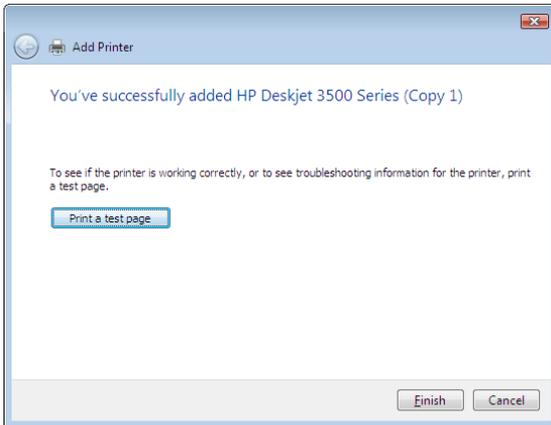
The Printer Install Wizard will now prompt for drivers. Select the correct Make and Model, or click “**Have Disk**”, to provide the Manufacturer’s Driver Disk. Click “**Next**”.



Enter a “**Printer Name**”.



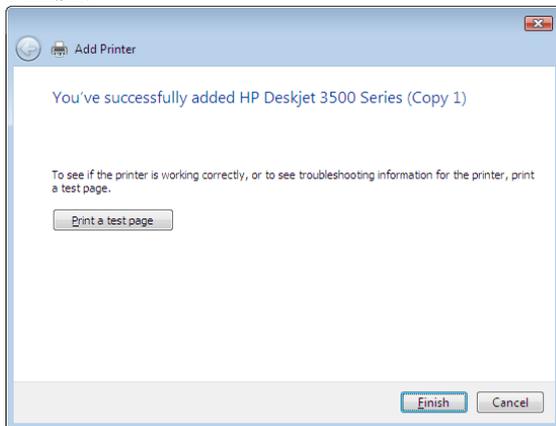
A Test Page can be printed to confirm proper configuration.



Once a test page has been sent to your printer, click **Close**.



Click **Finish**.



PRINTING IN MAC OS

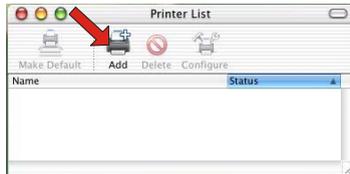
Rendezvous Uses in MAC OS 10.2

The latest version of MAC OS provides a new feature that is called **Rendezvous**. Rendezvous is a revolutionary networking technology standard that lets you create an instant network of computers and devices, which can be used throughout Mac OS 10.2 to provide innovative ways to share files and printers and even contact other people on the network.

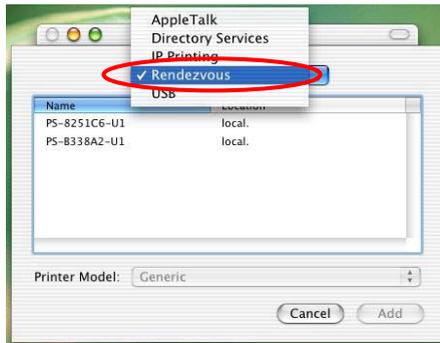
For the printer connection, the Mac OS 10.2 Print Center application uses Rendezvous to discover Rendezvous-enabled printers on the network. When you add your computer to a network, Print Center automatically discovers the available printers. All you have to do is selecting the one you want to use and then start printing. You can add a new printer to the network and all the users on the network will see the new printer automatically appear in their Print Center, without any configuration.

The following instructions provide a common procedure of installing the printer:

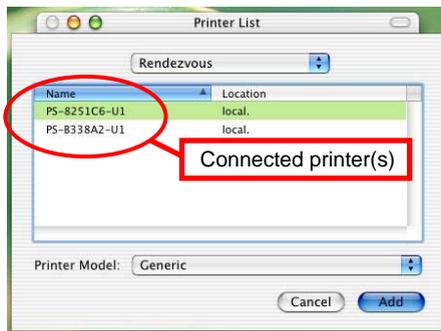
1. Launch Print Center. Press and hold the Option key, click the **Add** button.



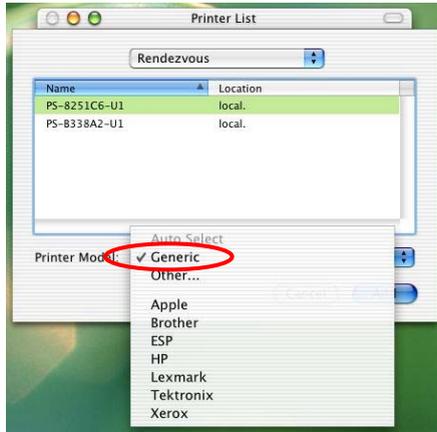
2. Select **Rendezvous** from the pop-up menu.



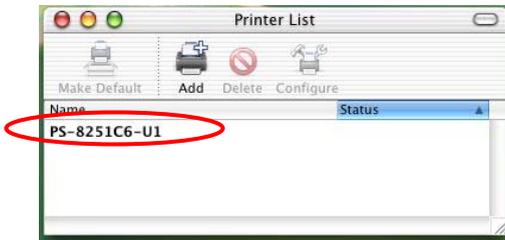
3. When clicking the **Rendezvous** item, the following window appears to display the connected Rendezvous-enabled printers.



4. Select the desired printer, and the following pop-up menu displays the printer's manufacturer. Select **Generic**.



5. The printer is installed into the system successfully.

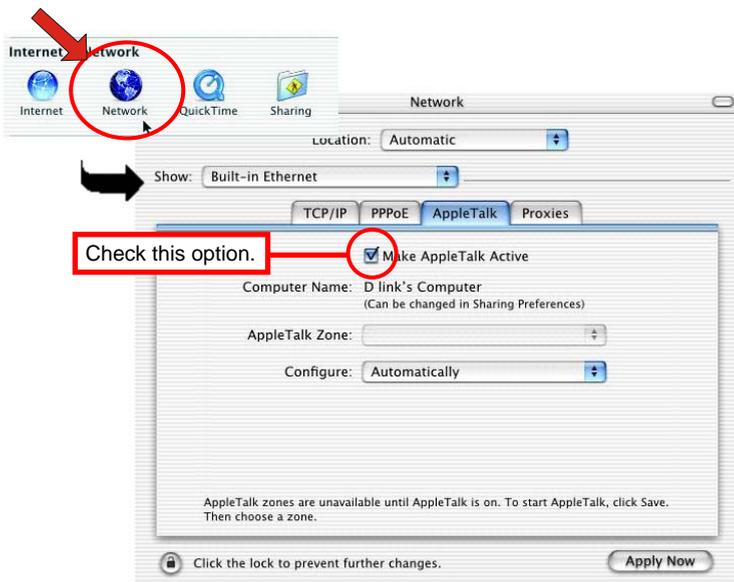


Setting Up Apple Talk/LPR Printing

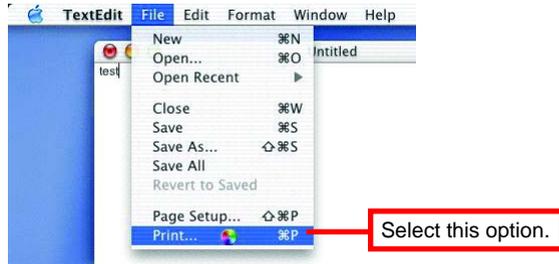
For MAC OS X User

With MAC OS X, you can use AppleTalk or LPR printers to print through the print server. Follow the instructions below for setting up the print server:

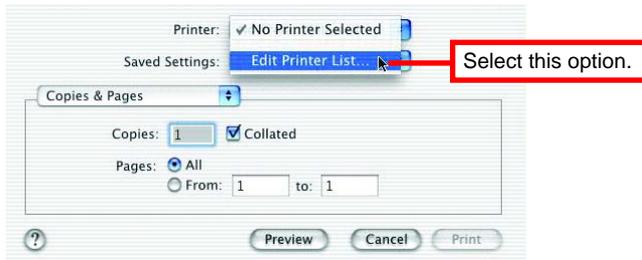
1. After attaching the print server to your network, change the IP Address of your Macintosh computer to access the print server's web configuration. The default IP Address of the print server is **192.168.0.1**. Change your IP Address to **102.168.0.x**, where **x** is any number between 2 and 254.
2. Open the **System Preference** window and click **Network**. In the Network window, select the **AppleTalk** tab and check the **Make AppleTalk Active** option.



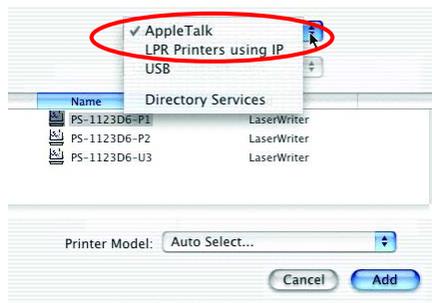
3. To print, open a document and select **File > Print** from the menu.



4. Select **Edit Printer List** from the **Printer** dialog box.



5. Click **Add Printer**. Then, select the desired printing protocol (*AppleTalk* or *LPR Printers using IP*).



- **AppleTalk:** After selecting **AppleTalk**, the Port Name of the print server will be displayed. Select the Port to which the post-script printer is connected. Then, select the printer model from the dialog box. Click **Add Printer** to complete the Printer Port configuration. Select the Printer Port just configured in the Print window. Click **Print** to print your document.
- **LPR Printers using IP:** When you select **LPR Printers using IP Protocol**, type the IP Address of the print server into the **LPR Printer's Address** field of the following window. In the **Queue Name** field, type in the Port Name of the post-script printer that is connected to the Print Server. Select the printer model from the dialog box, and select the printer model from the pull-down menu. Click **Add** to complete the process. Close all Print Center windows and select the Printer Port that was just selected. Then, click **Print** to print the document.

The image shows a screenshot of a Mac OS dialog box titled "LPR Printers using IP". The title bar is circled in red. Below the title bar, there is a text field labeled "LPR Printer's Address:" with the value "192.168.0.1" and a sub-label "Internet address or DNS name". Below this is a checkbox labeled "Use Default Queue on Server" which is unchecked. Underneath is a text field labeled "Queue Name:" containing the text "Port Name of the connected printer.", which is circled in red. Below that is a pull-down menu for "Printer Model:" currently showing "Generic". At the bottom right are two buttons: "Cancel" and "Add". A red arrow points to the "Add" button.

For MAC OS 9 User

If you use MAC OS 9, you can use the AppleTalk network protocol for network communications over standard Ethernet or Fast Ethernet using the EtherTalk transport, or over a proprietary low-speed LocalTalk transport. Your print server can be used for network printing to PostScript printers. You can print from any MAC OS computer connected to your Ethernet network, either directly using an EtherTalk connection or indirectly through a LocalTalk-to-EtherTalk router.

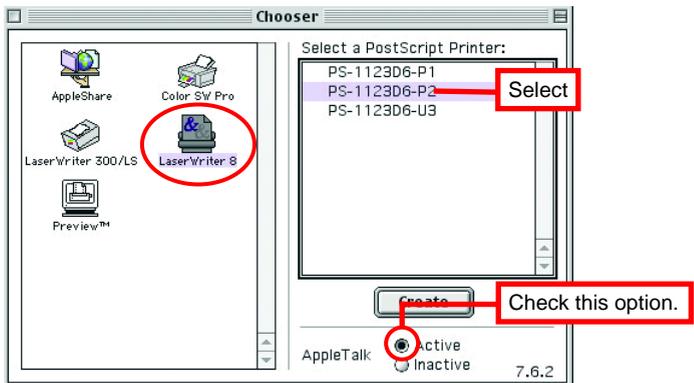
To set up the print server to be used for AppleTalk printing:

1. Please confirm that the AppleTalk protocol is enabled in your Macintosh computer.
2. Change the IP Address on one of the computers within your network to ***192.168.0.x*** (where *x* is any number between 2-254).
3. Type ***192.168.0.1*** (the default IP Address) into the address field of your browser.
4. Select the **Network** tab and scroll to the AppleTalk protocol section.
5. If your AppleTalk network is divided into AppleTalk zones, you have to specify which zone the Print Server should be in. You should locate the print server in the same zone as most of the users who will be using it. If your network is not divided into zones, it should contain a single asterisk “*”.

To print from MAC OS Client Workstations:

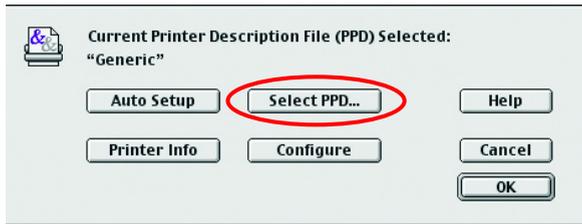
The actual settings of selecting a PostScript printer connected to your print server may be different from the instructions provided in this section, depending on the devices and the software you are using.

1. To choose a printer connected to your print server as your MAC OS workstation's default printer, select **Chooser** from the Apple menu.
2. In the left column of **Chooser** window, select the desired item. Please confirm that AppleTalk is set to **Active**. A list of all networked PostScript printers will be displayed within the right column.

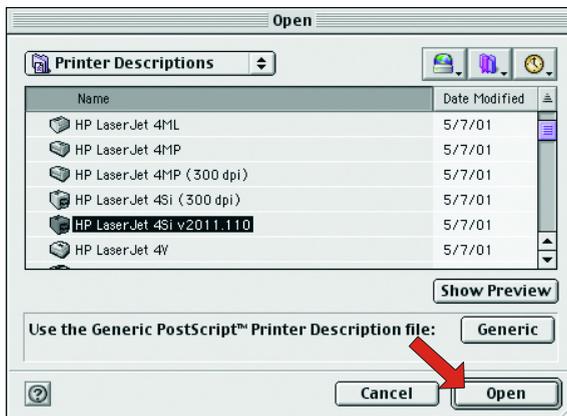


3. Double-click the name of the **Printer Port** you wish to use. The **Printer Ports** shown are examples only.

4. If you have not previously set this printer as the default, your computer will prompt you for a PostScript Printer Description file. Choose **Select PPD**.



5. Select the appropriate printer description file for your printer. Click **Open**. (If your printer is not listed, click **Generic** to use a generic printer description.)



The selected printer will become your computer's default printer. You may need to choose **Page Setup** in any applications you have open.

PRODUCT SPECIFICATIONS

Printer Connection

Printer Interface: Two USB ports, compliant with USB 2.0 Hi-speed standard.

Network Connection

Wireless Networking

Network Standards: Wireless LAN standard IEEE802.11b/g.

Network Data Transfer Rate: 54Mbps with fallback to 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, and 1Mbps.

Network Mode: Support both Infrastructure and Ad-hoc mode.

Wired Networking

Network Interface: One 10/100 Fast Ethernet port (RJ-45 connector).

Network Data Transfer Rate: 100Mbps.

Network Protocol Support

Transport Protocols: TCP/IP, SMB, NetBEUI, and AppleTalk.

TCP/IP Protocols Support: BOOTP, SNMP, Telnet, FTP, LPD, DHCP, and IPP.

Hardware

SDRAM: 8MB.

Flash ROM: 2MB.

Operating System Support

- Windows 95/98/ME, Windows NT, Windows 2000/XP/2003/Vista;
- NetWare 5.x (NDPS LPR remote printing);
- HP-UX Unix, Sun O.S, Solaris, SCO Unix, AIX;
- Unixware and Linux;
- Mac OS, AppleTalk.

Management

Standard: SNMP

MIBs: MIB-II (RFC 1213).

Utilities: PS-Utility, PS Wizard, PS Monitor

LEDs

Power, LAN, WLAN, USB1, USB2, LPT.

Environmental and Physical

Power Supply: 5VDC.

Operating Temperature: 0°C to 50°C.

Storage Temperature: -25°C to 55°C.

Humidity: 5% to 95%, non-condensing at 30°C.

EMI Compliance

FCC Class B, CE Class B

Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

TEW-P21G – 3 Years Limited Warranty

If a product does not operate as warranted above during the applicable warranty period, TRENDnet shall, at its option and expense, repair the defective product or part, deliver to customer an equivalent product or part to replace the defective item, or refund to customer the purchase price paid for the defective product. All products that are replaced will become the property of TRENDnet. Replacement products may be new or reconditioned.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet office within the applicable warranty period for a Return Material Authorization (RMA) number, accompanied by a copy of the dated proof of the purchase. Products returned to TRENDnet must be pre-authorized by TRENDnet with RMA number marked on the outside of the package, and sent prepaid, insured and packaged appropriately for safe shipment.

WARRANTIES EXCLUSIVE: IF THE TRENDNET PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE, AT TRENDNET'S OPTION, REPAIR OR REPLACEMENT. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. TRENDNET NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION MAINTENANCE OR USE OF TRENDNET'S PRODUCTS.

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LIMITATION OF LIABILITY: TO THE FULL EXTENT ALLOWED BY LAW TRENDNET ALSO EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF THE POSSIBILITY OF SUCH DAMAGES, AND LIMITS ITS LIABILITY TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE PAID, AT TRENDNET'S OPTION. THIS DISCLAIMER OF LIABILITY FOR DAMAGES WILL NOT BE AFFECTED IF ANY REMEDY PROVIDED HEREIN SHALL FAIL OF ITS ESSENTIAL PURPOSE.

Governing Law: This Limited Warranty shall be governed by the laws of the state of California.

AC/DC Power Adapter, Cooling Fan, Cable and Power Supply carry - 1 Year Warranty



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Product Warranty Registration

Please take a moment to register your product online.
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