

# TEW-P1PG

54Mbps 802.11g  
Wireless Parallel Print Server

## User's Guide



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# ABOUT THIS GUIDE

This manual provides instructions and illustrations on how to use your 802.11g Wireless Pocket-size 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, **Printing in MAC OS**, lets you complete printing task through your print server in MAC OS environment.
- Chapter 5, **Web Configuration**, completes the configuration using the web browser.
- Chapter 6, **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

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## ***INTRODUCTION***

Congratulations on purchasing the 802.11g Wireless Pocket-size Print Server, the easiest and fastest way to deploy printers on your network.

This compact pocket-sized print server can connect your Ethernet network directly to your printer, wherever it is. 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. In addition, it is an 802.11b-compliant wireless print server that supports both Infrastructure and Ad-Hoc modes. With the 802.11g Wireless Pocket-size Print Server, you will have the ability and convenience of sharing a printer beyond the wired or wireless network.

The interface of the 802.11g Wireless Pocket-size Print Server is the bi-directional parallel port, which can be directly connect to most printers available on the market today, without additional printer cable. It also supports all major network operating systems and protocols.

The 802.11g Wireless Pocket-size Print Server features a Web Configuration Utility, which allows you to set up the print server through the web browser easily and quickly. It also includes a user-friendly and powerful software utility **PS-Utility**, a Windows-based program that allows you to complete further settings for the print server.

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## **Package Contents**

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

- ◆ One 802.11g Wireless Pocket-size Print Server.
- ◆ One AC Power Adapter suitable for your country's electric power service.
- ◆ One Quick Installation Guide.
- ◆ One Installation CD-ROM containing the PS-Utility program and the User's Guide.

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.

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## System Requirements

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◆ Operating System:

Microsoft Windows 95/98/98SE/ME/NT/2000/XP/2003.

Microsoft Windows NT (3.51 or later).

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.

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## General Features

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- ◆ Compact pocket size.
- ◆ Compliant with bi-directional 36-pin parallel port. This IEEE 1824 standard bi-directional communication allows collection of information for attached printer's status.
- ◆ Equipped one 10/100 Fast Ethernet LAN port (Auto-MDIX supported).
- ◆ Fast 54Mbps WLAN connectivity based on IEEE 802.11g wireless high-speed standard.
- ◆ Auto fallback data rate under noisy environment or longer range distance.
- ◆ 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 TCP/IP printing in Windows 95/98/98SE/ME.
- ◆ IP assignment support for DHCP, BOOTP and RARP.
- ◆ Support Web configuration.
- ◆ Provide Flash memory for easy firmware upgrade.
- ◆ 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 for Windows 2000/XP
- ◆ Support second http port for remote web configuration and IPP printing.
- ◆ Support UPnP (Universal Plug and Play) for Windows XP/2003.
- ◆ Support Mac OS 10.2 “Rendezvous” – Zero-configuration feature.

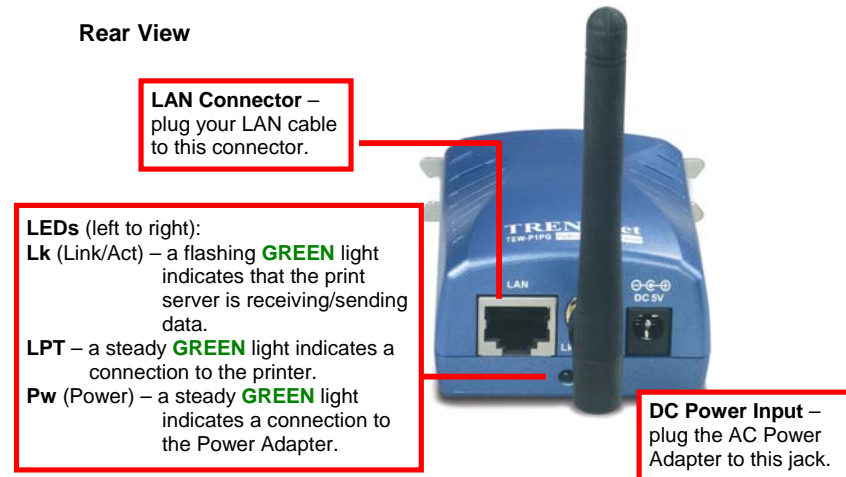
## Product View

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

Front View



Rear View

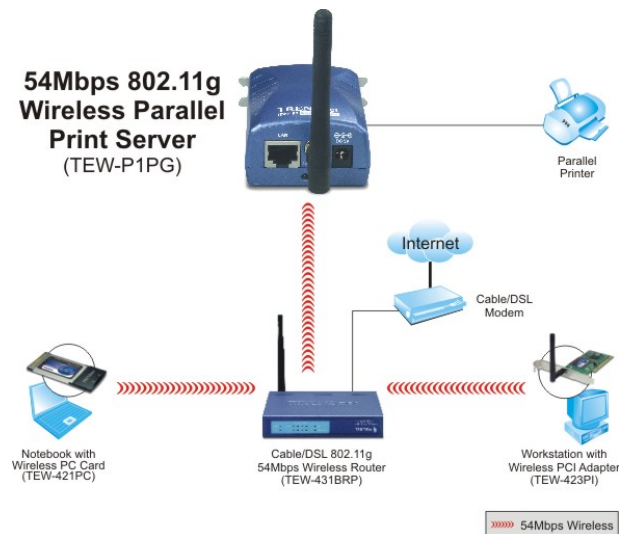


# 2

## 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 operations with your 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 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.

# 3

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## USING THE UTILITIES

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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.

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### Auto-Run Installation

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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.



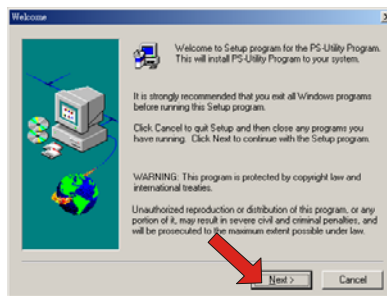
- **User's Guide** – click to preview the *User's Guide* in PDF format for detailed information of the Print Server.
- **Install Utility** – click to install PS-Utility. Please refer to the next section for detailed information on installing the utility.
- **PS Wizard** – click to launch the Printer Wizard program, which is helpful to set up the printer configuration easily and quickly.
- **Browse CD** – if you want to browse the contents of the Installation CD-ROM, click this button and the contents of the CD will be available for preview.
- **Exit** – click to close the Auto-Run program.

# PS-Utility

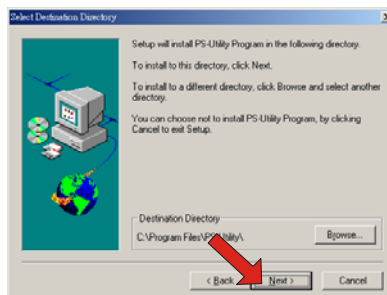
To avoid the conflict in your network, you can use PS-Utility to change the related settings of your print server (such as the IP address) after finishing the installation.

## Installing PS-Utility

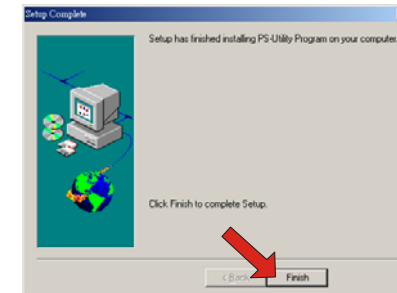
1. Click **Install Utility** from the Auto-Run menu screen. Once executed, the Setup program will extract files to launch the InstallShield Wizard; then, click **Next >** in the welcome screen of InstallShield Wizard.



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**.

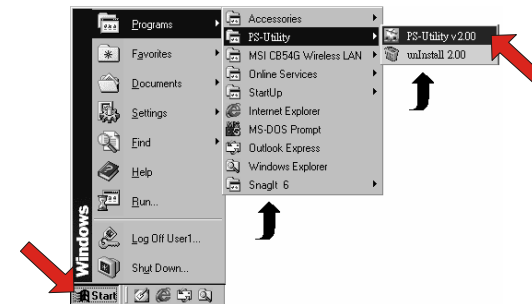


After installing the utility, the application program for the print server is automatically installed to your computer, and creates a folder in **Start\Programs\PS-Utility**.

## Using PS-Utility

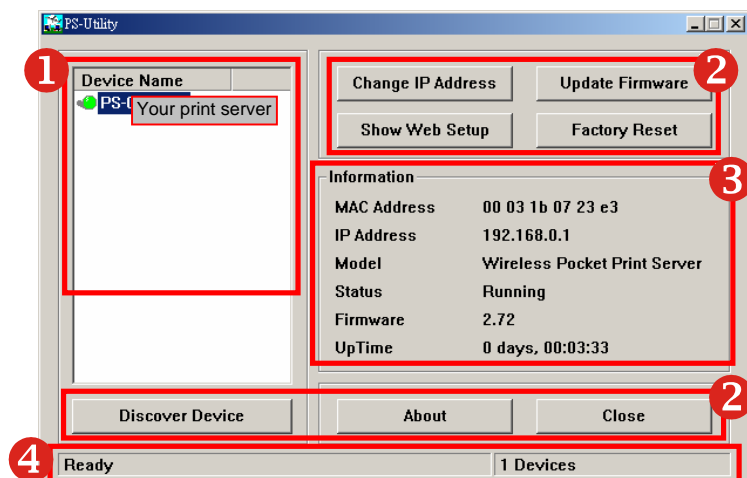
This section describes the operation of PS-Utility. To launch PS-Utility:

1. Click **Start -> Programs -> PS-Utility**, and then click the **PS-Utility v2.00** item.





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

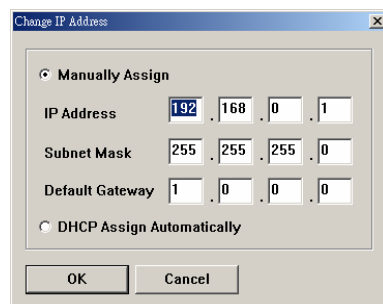


### Component Features:

- 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.

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

- 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.

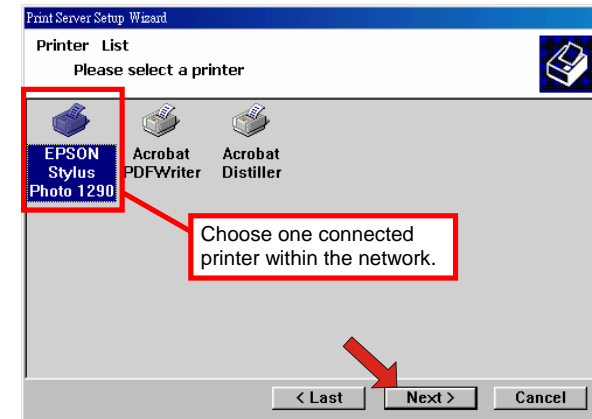
To launch PS Wizard:

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 >**.

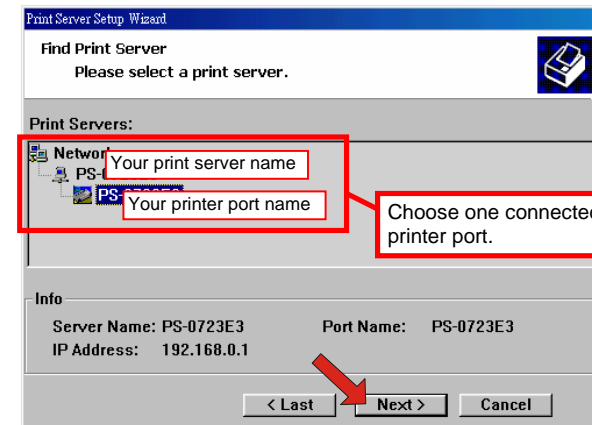


**NOTE:** For some specific printers, you may need to connect the printer to the computer and install the driver. In this case, connect it to the computer and install the driver first, and then connect it to the print server.

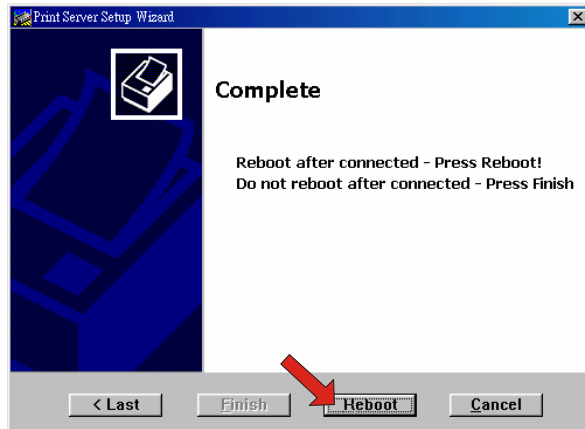
2. In the following window, select one printer in the Printer List to set up port connection, and then click **Next >**.



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



4. The configuration is completed, click **Reboot** and then **Yes** to restart the system.



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

**TIP:** If you use Windows 2000/XP, the system will not restart to complete the installation.

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## PRINTING IN MAC OS

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### Rendezvous Uses in MAC OS 10.2

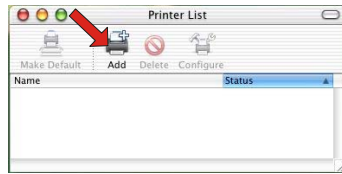
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The latest version of MAC OS provides a new feature that is called **Rendezvous**. Rendezvous is a revolutionary networking technology standard that lets you create an instant network of computers and devices, which can be used throughout Mac OS 10.2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

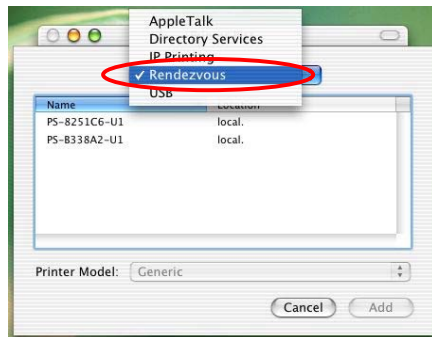
For the printer connection, the Mac OS 10.2 Print Center application uses Rendezvous to discover Rendezvous-enabled printers on the network. When you add your computer to a network, Print Center automatically discovers the available printers. All you have to do is selecting the one you want to use and 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:

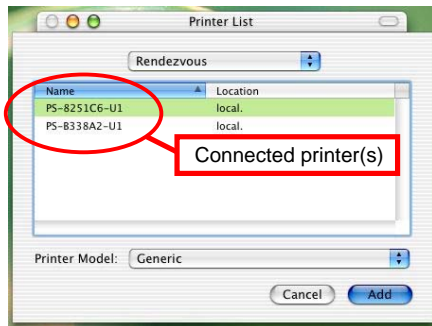
1. Launch Print Center. Press and hold the Option key, click the **Add** button.



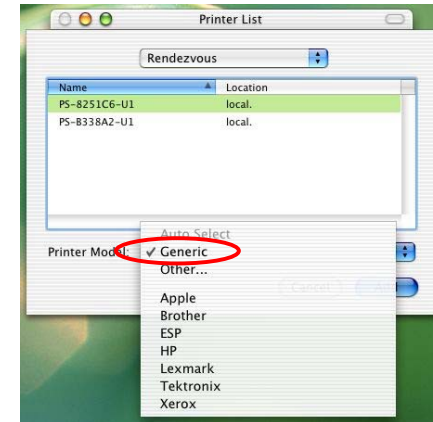
2. Select **Rendezvous** from the pop-up menu.



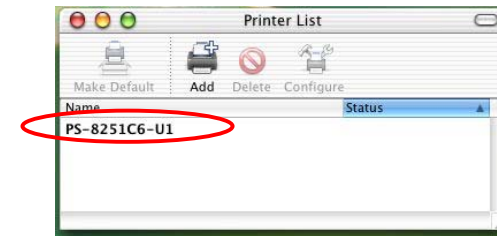
3. When clicking the **Rendezvous** item, the following window appears to display the connected Rendezvous-enabled printers.



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.

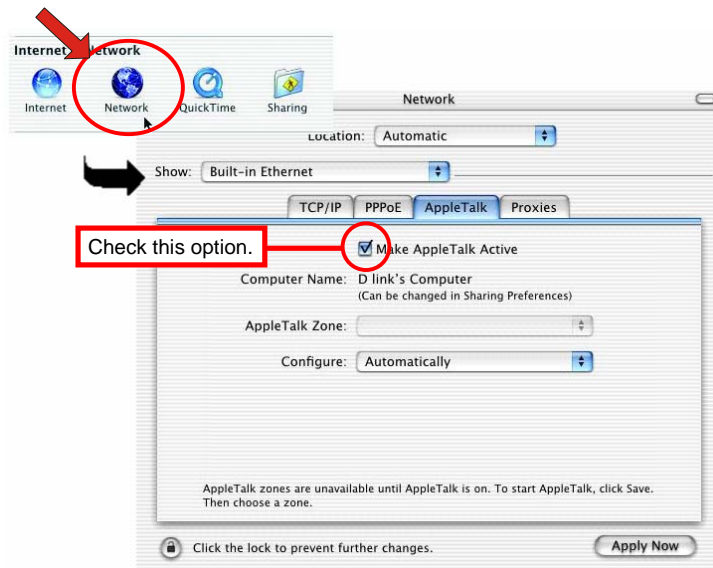


# Setting Up Apple Talk/LPR Printing

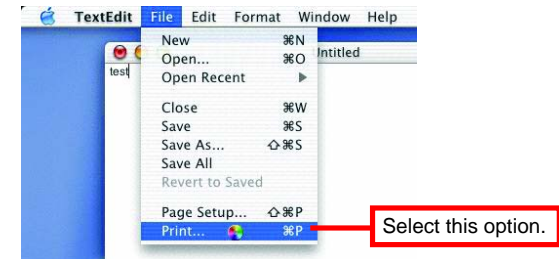
## For MAC OS X User

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:

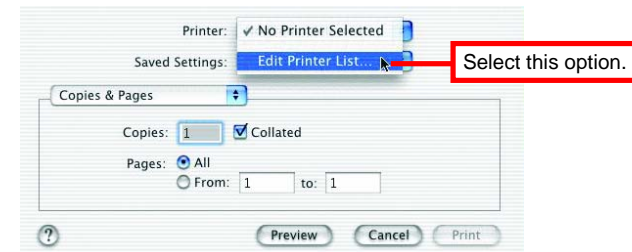
1. After attaching the print server to your network, change the IP Address of your Macintosh computer to access the print server's web configuration. The default IP Address of the print server is **192.168.0.1**. Change your IP Address to **102.168.0.x**, where *x* is any number between 2 and 254.
2.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



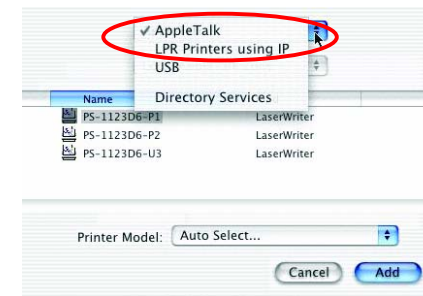
3. To print, open a document and select **File > Print** from the menu.



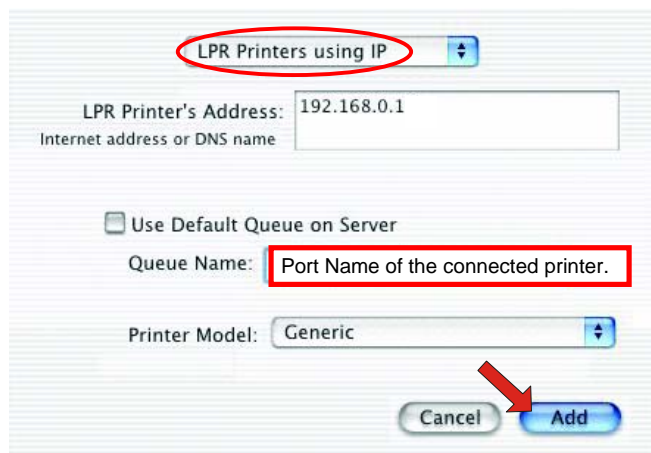
4. Select **Edit Printer List** from the **Printer** dialog box.



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.



## 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.

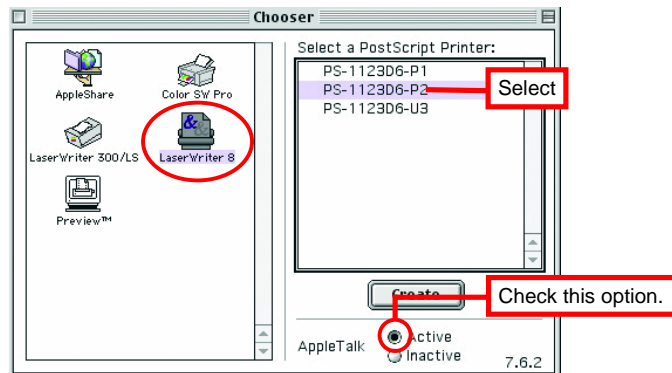
### To set up the print server to be used for AppleTalk printing:

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:

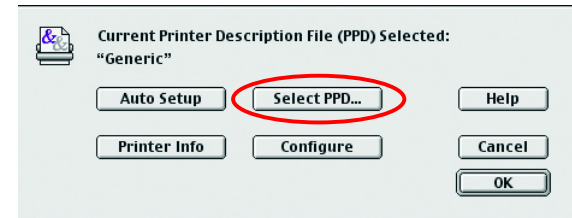
The actual settings of selecting a PostScript printer connected to your print server may be different from the instructions provided in this section, depending on the devices and the software you are using.

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.

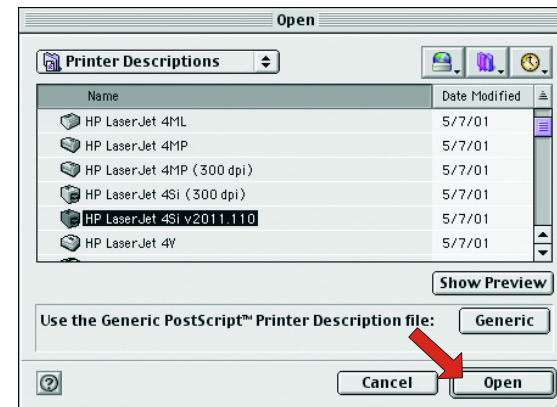


3. Double-click the name of the **Printer Port** you wish to use. The **Printer Ports** shown are examples only.

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.



# 5

## WEB CONFIGURATION

You can access and manage the 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

The screenshot displays the Management screen of the Configuration Utility for a TRENDnet TEW-P1PG printer server. The interface includes a navigation menu with options for Management, Configuration, Tools, and Help. The main content area is divided into three sections: Device Status, Printer Status, and Ethernet Status. A Refresh button is located at the bottom of the Ethernet Status section.

Device Status	
Server Name	: PS-4B702E
Model	: TEW-P1PG
Firmware Version	: 3.13 (2004-11-08)
MAC Address	: 00 FF 03 4B 70 2E
IP Address	: 192.168.1.121 (Manual)
Up Time	: 0 days, 00:00:27

Printer Status		
LPT	Printer Name	: PS-4B702E-P1
	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	: 93
Tx Errors	: 0
Rx Packets	: 69
Rx Errors	: 0

**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**, and **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 can be found in this field, including the product model, firmware version, MAC address, IP address, and up time.

### Printer Status

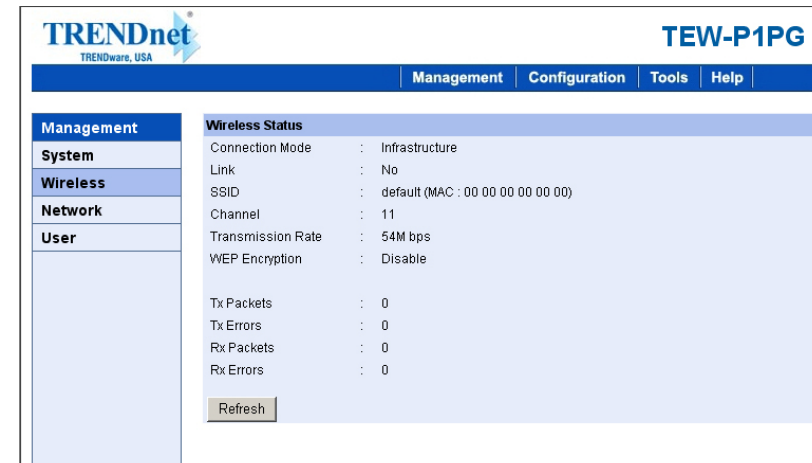
The items in this field display the information of the printer, such as the given name for the printer, speed, printer status, and status of your printing tasks, etc.

### Ethernet Status

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

## Management → Wireless

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



The screenshot shows the TRENDnet TEW-P1PG Management interface. The top navigation bar includes 'Management', 'Configuration', 'Tools', and 'Help'. The 'Management' section is active, with a sub-menu on the left containing 'System', 'Wireless', 'Network', and 'User'. The 'Wireless Status' section is expanded, displaying the following information:

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

A 'Refresh' button is located at the bottom of the Wireless Status section.

### 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.

The screenshot shows the TRENDnet TEW-P1PG web interface. The top navigation bar includes 'Management', 'Configuration', 'Tools', and 'Help'. The left sidebar has 'Management', 'System', 'Wireless', 'Network', and 'User'. The main content area is titled 'Auto IP' and contains several sections:

- Auto IP**
  - DHCP/BOOTP : Disable (IP : 0.0.0.0)
  - UPnP : Enable (IP : 192.168.1.30)
  - MAC Rendezvous : Enable (IP : 169.254.112.46)
- TCP/IP Printing**
  - LPR Printing : Status : Running, Total Print Jobs : 0, Total Print Size : 0 KBytes
  - Port (9100) 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

A 'Refresh' button is located at the bottom of the main content area.

## 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**.

## TCP/IP Printing

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

## Microsoft Network Printing

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

## MAC AppleTalk Printing

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

## Management → User

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

The screenshot shows the TRENDnet TEW-P1PG Management interface. The left sidebar has a menu with 'User' selected. The main area is titled 'Users Printing Log' and contains a table with columns for MAC, IP, Name, Jobs, and Size(kBytes). A 'Refresh' button is located below the table.

MAC	IP	Name	Jobs	Size(kBytes)
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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

The screenshot shows the TRENDnet TEW-P1PG Configuration interface. The left sidebar has a menu with 'System Device' selected. The main area is titled 'System Device' and contains fields for Server Name, Location, Admin Contact, Password (New Password and Confirm Again), and Port Setting (LPT Port Name, Description, Speed, and P.J.L Printer). 'Save' and 'Cancel' buttons are at the bottom.

System Device
Server Name : PS-4B702E
Location :
Admin Contact :
Password : New Password :
Confirm Again :
Port Setting
LPT : Port Name : PS-4B702E-P1
Description :
Speed : High
P.J.L Printer : No

### System Device

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

- **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 LPT port. It also allows you to select the **PJL Printer** setting (*Yes* or *No*).

**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** TEW-P1PG  
Management Configuration Tools Help

**Configuration**

- System
- Wireless**
- Network
- User
- E-mail
- SNMP

**Wireless Interface**

Connection Mode :  Infrastructure  Ad-Hoc

SSID : default (Manually Input or Select from List)  
TECH-AP  
Site Survey

Wireless Channel : 11  
Transmission Rate : Fully Automatic

**WEP Encryption**

WEP Encryption :  Disable  64 bits  128 bits

WEP Key Format :  ASCII  HEX

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

Encrypt Data Transmissions Using : Key 1

**Advanced Setting**

Beacon Interval : 100 (ms)

Preamble :  Long  Short

Authentication Type :  Open System  Shared Key  Both

Save Cancel

### 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*.

## 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).

## 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*.

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

## Configuration → Network

The screenshot displays the network configuration page for a TRENDnet TEW-P1PG device. The interface is organized into several sections: **Configuration** (System, Wireless, Network, User, E-mail, SNMP), **TCP/IP**, **Microsoft Network**, and **AppleTalk**. In the **TCP/IP** section, the **Manually Assign** radio button is selected, and the IP Address is set to 192.168.1.121, Subnet Mask to 255.255.255.0, and Default Gateway to 192.168.1.1. The **Microsoft Network** section shows the Workgroup set to WORKGROUP. The **AppleTalk** section shows the AppleTalk Zone set to \*, LPT Chooser Name as PS-4B702E-P1, Printer Type as LaserWriter, PostScript Level as Level 2, and Font Group as Standard 35. Save and Cancel buttons are located at the bottom of the configuration area.

## 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*.

- **DNS Server Address:** DNS (Domain Name System) server is an Internet service that translates domain names into IP addresses. Enter at least one DNS IP Address in this field.
- **UPnP:** This option allows you to enable or disable UPnP mode.
- **MAC Rendezvous:** This option allows you to enable or disable MAC Rendezvous mode.
- **Second HTTP Port:** The default port for communication is via port 80, and you can change it according to your network configuration. Select *Enable* from the option and enter the desired port number in the following box.

### Microsoft Network

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

### AppleTalk

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

- **LPT**
  - **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.

**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 TRENDnet TEW-P1PG web interface. The top navigation bar includes 'Management', 'Configuration', 'Tools', and 'Help'. The left sidebar lists 'System', 'Wireless', 'Network', 'User', 'E-mail', and 'SNMP'. The main content area is divided into two sections: 'Printing Control' and 'Define Users'. In the 'Printing Control' section, there are two radio button options: 'Enable User Printing Control' (set to No) and 'Allow Undefined Users Printing' (set to No). Below these are 'Save' and 'Cancel' buttons. The 'Define Users' section has an 'Add User' section with 'User Name' and 'MAC Address' input boxes, and a 'Printing Access' radio button (set to Yes). There is an 'Add' button. Below that is a 'Delete User' section with a dropdown menu and a 'Delete' button. At the bottom is a 'User List' table with columns for 'Name', 'MAC', and 'Printing Access'.

### 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

**TRENDnet**  
TRENDware, USA

**TEW-P1PG**

Management Configuration Tools Help

**Configuration**

**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**

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

Receive E-mail Interval :  (minutes)

Save Cancel

### 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 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 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.

**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 page for the TEW-P1PG device. The left sidebar contains a menu with options: System, Wireless, Network, User, E-mail, 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 form are "Save" and "Cancel" buttons.

### 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

The screenshot shows the "Tools" configuration page for the TEW-P1PG device. The left sidebar contains a menu with options: Print Test, E-mail, Reset, Factory Reset, Firmware Upgrade, and Backup. The main content area is titled "Print Test" and contains a "Port Selection" dropdown menu with "LPT" selected. A "Test" button is located below the dropdown.

### Print Test

Click **Test** to print a test page.



## Tool → E-mail

The screenshot shows the TEW-P1PG web interface. At the top left is the TRENDnet logo (TRENDware, USA). At the top right is the model number TEW-P1PG. Below the logo and model number is a navigation bar with tabs for Management, Configuration, Tools, and Help. The Tools tab is selected. On the left side, there is a vertical menu with the following options: Tools, Print Test, E-mail, Reset, Factory Reset, Firmware Upgrade, and Backup. The E-mail option is highlighted. The main content area is divided into two sections. The top section is titled "Test E-mail Account" and contains the text: "E-mail test will send an e-mail to Admin's e-mail address. Do you want to test e-mail account?" Below this text is a "Test" button. The bottom section is titled "Receive E-mail" and contains the text: "Do you want to receive e-mail and print out?" Below this text is a "Yes" button.

### 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

The screenshot shows the TEW-P1PG web interface. At the top left is the TRENDnet logo (TRENDware, USA). At the top right is the model number TEW-P1PG. Below the logo and model number is a navigation bar with tabs for Management, Configuration, Tools, and Help. The Tools tab is selected. On the left side, there is a vertical menu with the following options: Tools, Print Test, E-mail, Reset, Factory Reset, Firmware Upgrade, and Backup. The Reset option is highlighted. The main content area is divided into two sections. The top section is titled "Reset" and contains the text: "Do you want to reset this device?" Below this text is a "Yes" button. The bottom section is empty.

### Reset

Click *Yes* to immediately reset the print server.

## Tool → Factory Reset

The screenshot shows the TRENDnet TEW-P1PG web interface. The top navigation bar includes 'Management', 'Configuration', 'Tools', and 'Help'. A left sidebar lists 'Tools' with sub-items: 'Print Test', 'E-mail', 'Reset', 'Factory Reset', 'Firmware Upgrade', and 'Backup'. The 'Factory Reset' option is selected. The main content area displays the 'Factory Reset' tool with the question 'Do you want to restore this device to factory default setting?' and a 'Yes' button.

### Factory Reset

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

## Tool → Firmware Upgrade

The screenshot shows the TRENDnet TEW-P1PG web interface. The top navigation bar includes 'Management', 'Configuration', 'Tools', and 'Help'. A left sidebar lists 'Tools' with sub-items: 'Print Test', 'E-mail', 'Reset', 'Factory Reset', 'Firmware Upgrade', and 'Backup'. The 'Firmware Upgrade' option is selected. The main content area displays the 'Firmware Upgrade' tool. It shows the current firmware version and date as '3.13 (2004-11-08)'. Below this is a text input field labeled 'Select a Firmware File:' with a 'Browse...' button. At the bottom of the tool area are 'Upgrade' and 'Cancel' buttons.

### 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

The screenshot shows the TRENDnet TEW-P1PG web interface. At the top, there is a navigation bar with 'Management', 'Configuration', 'Tools', and 'Help'. A left sidebar contains a 'Tools' menu with options: Print Test, E-mail, Reset, Factory Reset, Firmware Upgrade, and Backup. The main content area is titled 'Backup Device Configuration to File' and asks 'Do you want to backup the configuration to file?' with a 'Backup' button. Below this is the 'Restore Device Configuration from File' section, which includes a text input field for 'Select a Configuration File', a 'Browse...' button, and 'Restore' and 'Cancel' buttons.

### 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

The screenshot shows the TRENDnet TEW-P1PG web interface with the 'Help' menu selected in the sidebar. The main content area is titled 'About' and displays 'Print Server v3.13'. The navigation bar at the top includes 'Management', 'Configuration', 'Tools', and 'Help'.

This screen displays the information of the print server.

# 6

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## **PRODUCT SPECIFICATIONS**

### ***Printer Connection***

**Printer Interface:** One bi-directional 36-pin parallel port.

### ***Network Connection***

#### **Wireless Networking**

**Network Standards:** Wireless LAN IEEE802.11g Standard

**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 RJ-45Fast Ethernet port (Auto-MDIX supported).

**Network Data Transfer Rate:** 100Mbps.

### ***Network Protocol Support***

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

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

### ***Hardware***

**SDRAM:** 8MB.

**Flash ROM:** 2MB.

**WLAN:** Built-in 802.11g wireless module.

### ***Operating System Support***

- Windows 95/98/98SE/ME/2000/XP/2003, Windows NT;
- 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.

## **LEDs**

**Lk** (Link/Act)

**LPT**

**Pw** (Power)

## ***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, VCCI Class B

## **Limited Warranty**

TRENDware 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.

### Wireless Print Server – 3 Years Warranty

If a product does not operate as warranted above during the applicable warranty period, TRENDware 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 TRENDware. Replacement products may be new or reconditioned.

TRENDware 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 TRENDware 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 TRENDware 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 TRENDware must be pre-authorized by TRENDware with RMA number marked on the outside of the package, and sent prepaid, insured and packaged appropriately for safe shipment.

**WARRANTIES EXCLUSIVE:** IF THE TRENDWARE PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE, AT TRENDWARE'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. TRENDWARE NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION MAINTENANCE OR USE OF TRENDWARE'S PRODUCTS.

TRENDWARE SHALL NOT BE LIABLE UNDER THIS WARRANTY IF ITS TESTING AND EXAMINATION DISCLOSE THAT THE ALLEGED DEFECT IN THE PRODUCT DOES NOT EXIST OR WAS CAUSED BY CUSTOMER'S OR ANY THIRD PERSON'S MISUSE, NEGLIGENCE, IMPROPER INSTALLATION OR TESTING, UNAUTHORIZED ATTEMPTS TO REPAIR OR MODIFY, OR ANY OTHER CAUSE BEYOND THE RANGE OF THE INTENDED USE, OR BY ACCIDENT, FIRE, LIGHTNING, OR OTHER HAZARD.

LIMITATION OF LIABILITY: TO THE FULL EXTENT ALLOWED BY LAW TRENDWARE 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 DATE, 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 TRENDWARE'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.

## Technical Support

You can find the most recent driver/firmware/software and user documentations on the **TRENDware website**. **TRENDware** provides **FREE technical support** for all customers for the duration of the warranty period on this product.

**TRENDware Technical Support**

**Tel: +1-310-626-6252**

**Fax: +1-310-626-6267**

**E-mail: [support@trendware.com](mailto:support@trendware.com)**

**[www.TRENDnet.com](http://www.TRENDnet.com)**

**Monday ~ Friday, 7:30AM ~ 6:00PM Pacific Standard Time  
(Except holidays)**



## Product Warranty Registration

Please take a moment to register your product online.  
Go to TRENDware's website at <http://www.TRENDNET.com>

**TRENDware International, Inc.**  
3135 Kashiwa Street  
Torrance, CA 90505

**<http://www.TRENDNET.com>**