Wireless 802.11g & USB 2.0 Print Server

User's Manual

Rev. 01 (Jan, 2004)

Made In Taiwan

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ABOUT THIS GUIDE

This manual provides instructions and illustrations on how to use your Wireless USB 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

INTRODUCTION

Congratulations on purchasing your Wireless USB 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 USB 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 a powerful software utility **PS-Utility**, a 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 Wireless USB 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.

System Requirements

• Operating System:

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

Apple Mac OS (with Apple Talk support).

• For Web Configuration:

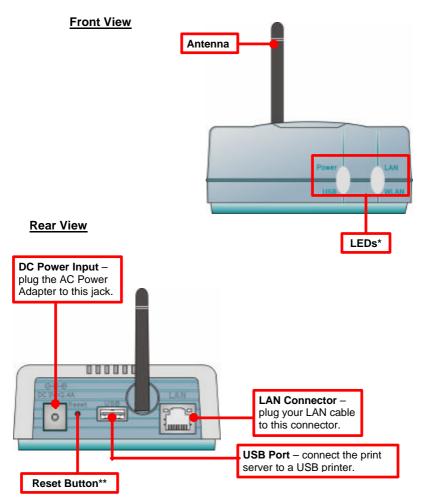
Java-enabled web browser, such as Microsoft® Internet Explorer 5.0 and Netscape Navigator 6.0.

General Features

- Compact pocket size.
- Compliant with USB 2.0 high-speed printing.
- Fast 54Mbps WLAN connectivity based on IEEE 802.11g wireless high-speed standard.
- 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/ME.
- IP assignment support for DHCP, BOOTP and RARP.
- Support Web configuration.
- Provide Flash memory for easy firmware upgrade.
- Auto fallback data rate under noisy environment or longer range distance.
- 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 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.



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

LEDs	Description
Power	Steady light confirms that the Print Server is powered on.
USB	When it blinks, the printer connected is printing.
LAN	Steady light confirms that the print server has a good connection to your network.
	When it blinks (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.

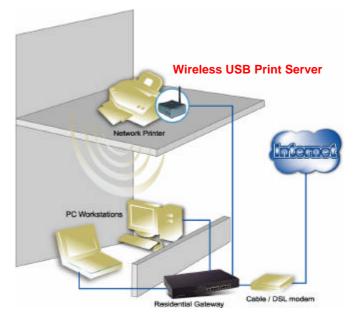
** 1) Press and release this button to reset the print server; or 2) Press and hold this button for three seconds (the USB LED on the front panel lights up) and then release it, the print server will resume the factory default settings.

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 USB 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 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

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.



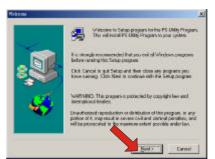
- User's Guide click to preview the *User's Guide* in PDF format for detailed information of the Wireless Print Server.
- **Install Utility** click to install PS-Utility. Please refer to the next section for detailed information on installing the utility.
- **PS Wizard** click to launch the Printer Wizard 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

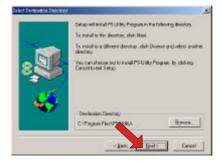
To avoid the conflict in your network, you can use PS-Utility to change the related settings of your print server (such as the IP address) after finishing the installation.

Installing PS-Utility

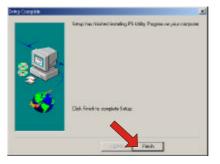
 Click Install Utility from the Auto-Run menu screen. Once executed, the Setup program will extract files to launch the InstallShield Wizard; then, click Next > in the welcome screen of InstallShield Wizard.



 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*.

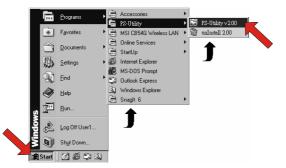


After installing the utility, the application program for the print server is automatically installed to your computer, and creates a folder in **Start\Programs\PS-Utility**.

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.



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

Device Name	Change IP Add	tress	Update Firmware
P3 I Your print server	Show Web S	etup	Factory React
	Information		
	MAC Address	00.03	1b 07 23 e3
	IP Address	192.10	58.0.1
	Medel	Wirels	ess Pocket Print Serv
	Status	Runni	ng
	Firmware	2.72	
	UpTime	0 days	s, 00:03:33
Discover Device	About		Close

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.

* Menually Assig	n			
IP Address	192	. 168	. 0	. 1
Subnet Mask	255	. 255	. 255	
Default Gateway	1	0	. 0	
O DHCP Assign A	utom at	ically		

- **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.

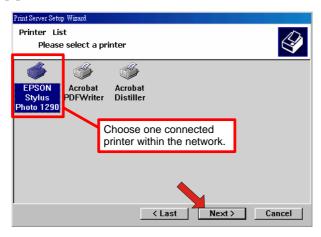
To launch PS Wizard:

 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.

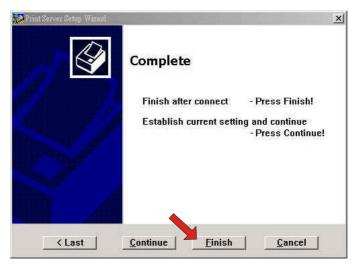
2. In the following window, select one printer in the Printer List to set up port connection, and then click *Next* >.



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

Print Server Setup Wizard
Find Print Server Please select a print server.
Print Servers:
Networ PS- PS-
Your printer port name Choose one connected printer port.
Info Server Name: PS-0723E3 Port Name: PS-0723E3 IP Address: 192.168.0.1
< Last Next > Cancel

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.

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.

de la	
利	
Confidence	
CONTRACT	-
	Cartour

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

000	AppleTalk Directory Services IP Printing	
	✓ Rendezveus	
Name P5-8251C6-UL P5-8338A2-UL	lecal fecal	
Printer Nodet	Generic	
France House		ancel) (Add)

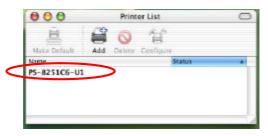
3. When clicking the **Rendezvous** item, the following window appears to display the connected Rendezvous-enabled printers.

	Rendezvous
Name	 Location
PS-8251C6-U1	facal.
P5-8338A2-01	19520
	Connected printer(s)
	• • • • • • • • • • • • • • • • • • •
rinter Model:	Geseric
timer Mødel: (Gereric

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

000	Prin	iter List	0
	Rendezvous		
Nette		Location	194
PS-8251C6-01		local.	
	Auto Sele		
rinter Model		5	101
rinter Model		>	•
rinter Mod 4	✓ Generic Other	>	•
rinter Mode	✓ Generic	>	•
rinter Mode	✓ Generic Other Apple	>	
rinter Mod	✓ Generic Other Apple Brother ESP HP	>	•
rinter Mod	✓ Generic Ocher Apple Brother ESP HP Lexmark	>	•
rinter Mod	✓ Generic Other Apple Brother ESP HP	>	

5. The printer is installed into the system successfully.



Setting Up Apple Talk/LPR Printing

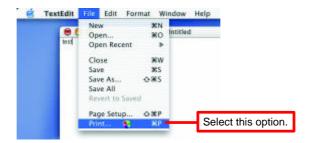
For MAC OS X User

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.

Network	QuickTinw Sharing	Network	10
Show	v. (Built-in Ethernet	+	
	TCP/IP	PPPoE AppleTalk	Proxies
Check this	option.	Mke AppleTalk Active	
	Computer Name:	D link's Computer	
	AppleTalk Zone:	(Can be changed in Sharing P	teferencen)
	Configure:	Automatically	

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



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

Saved Settings	Edit Printer List	Select this option.
Copies & Pages	•	
Copies: 1	Collated	
Pages: 😁 All 🔿 From:	1 to: 1	

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

	US8	US8 1	
Name	Directo	ry Services	
F5-11230		LaterWH	ter
No.11230	N5-P2	LaserWri	ter
월 15-11230	KI-U3	LanerWri	ter
Printer M	odel: Aut	o Select	

- 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.

	rs using IP
LPR Printer's Address: Internet address or DNS name	192.100.0.1
Queue Name:	Port Name of the connected printer.
Printer Model:	Generic 😝

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.

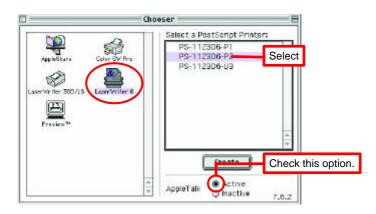
To set up the print server to be used for AppleTalk printing:

- **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:

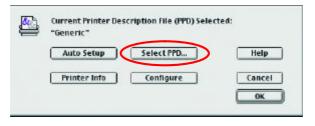
The actual settings of selecting a PostScript printer connected to your print server may be different from the instructions provided in this section, depending on the devices and the software you are using.

- 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.)

Name	Deta Modified	
🗇 HP Løser Jat 4ML	5/7/01	F
D HP LeserJet 4MP	5/7/01	I
🚳 HP Laserdat 4MP (300 dpi)	5/7/01	1
🕞 HP LuserJet 45i (300 dpi)	5/7/01	I
HP Laser Jat 4Si v2011.110	5/7/01	Ļ
HP LuserJet 4Y	5/7/01	-
	Show Previo	ev
se the Generic PostScript [™] Printer Descr	iption file: Generi	c

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 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

NR - 6		Cauch and Country		Meda 🕢 🝰 📲 🗾	
		Disearch X Powertes	-	, Henna 🌑 🔯 🖾 🗖	
a 🔊 http://192	1.168.0.1)				
agement	En	niguration		Tools Help	
and the state of the				ANNO LINK	
Aanagement	Device Status				
tem	Server Name	PS-AF64	5		
eless	Nadel	Wireless	UBB	Print Barver	
work	Firmware Vers	ion : 3.00f (200	4-01	-07)	
<u>.</u>	MAC Address	: DD FF 39.	4F 64	65	
	IP Address	192,168.0	1.1 01	anual)	
	Up Time	: Didiayo, Di	1021	51	
	Printer Status				
	1932	Printer Name	- 24	PS-AF6465-U1	
		Printer Speed		Full Speed (12M bps)	
	8	Printer Status	- 22	Off line	
	1	Total Print Jobs	13	D	
		Fotal Print Size		o DikByles	
			- 53	a capital	
	-0	enting Status		idle	
		Name			
		MAC	- 3		
		Р	- 5		
		Protocol	1		
		Spooling Size	- 3	0 Ovtes	
		Printing Size		D Bytes	
	Ethernet Status				
	Link	Yes			
	Speed	1 DOM bps			
	Duplex	Yes			
	Ts Packets	46			
	Tx Emors	: D			
	RxParkets	43			
	REEmans	D			

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.

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.

Management	<u>Configurati</u>	ion	<u>Tools</u>	<u>Help</u>
Management	Wireless Status			
System	Connection Mode	:	Infrastructure	
Vireless	Link	:	No	
letwork	SSID	:	(MAC:000000000000)	
Jser	Channel	:	0	
	Transmission Rate	:	OM bps	
	WEP Encryption	:	Disable	
	Tx Packets	:	0	
	Tx Errors	:	0	
	Rx Packets	:	0	
	Rx Errors	:	0	
	Refresh			

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.

Management	Auto IP	
<u>System</u>	DHCP/BOOTP	: Disable (IP:0.0.0.0)
Wireless	UPnP	: Enable (IP:169.254.100.101)
Network	MAC Rendezvous	: Enable (IP:169.254.100.101)
<u>User</u>		
	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
	Defeate	
	Refresh	

<u>Auto IP</u>

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.

<u>Configu</u>	ration	<u>Tools</u>	<u>Help</u>	
Users Printing Log				
MAC	IP	Name	lobe	Size(KBytes)
Mino		Indiffe	0003	UIZE(INDYIES)
Refresh				
	Configu Users Printing Log MAC Refresh	MAC	Users Printing Log MAC IP Name	Users Printing Log MAC IP Name Jobs

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

Management	Configuration	1		Tools	<u>Help</u>
Configuration	System Device				
<u>System</u> Wireless	Server Name	:	PS-AF6465		
Network	Location	:			
<u>User</u> E-mail	Admin Contact	:			
SNMP	Password	:	New Password	:	
			Confirm Again	:	
	Port Setting				
	USB	:	Port Name	: PS-AF6465-U1	
			Description	:	
			PJL Printer	: No 💌	
	Save Cancel				

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 USB 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

Management	<u>Configuration</u>	1	<u>Tools</u> <u>Help</u>	
				_
Configuration	Wireless Interface			
<u>System</u> Wireless	Connection Mode	1	Similasi detare	
			C Ad-Hoc	
Network User	SSID	:	default (Manually Input or Select from List)	
E-mail				
SNMP			default	
<u></u>			Site Survey	
	Wireless Channel	:	11 •	
	Transmission Rate	1	Fully Automatic	
	WEP Encryption			
	WEP Encryption	1	• Disable C 64 bits C 128 bits	
	WEP Key Format	1	🖲 ASCIL 🤇 HEX	
	Key 1	:		
			, 	
	Key 2	-		
	Key 3	:		
	Key 4	:		
	Encrypt Data Transmissi	ons	s Using : Key 1 🔄	
	Advanced Setting			
	Beacon Interval	:	100 (ms)	
	Preamble	:	C 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 pulldown 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 $(1\sim4)$.

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*.

Configuration → Network

Management	Configuration	<u>Tools</u>	He	l <u>p</u>
Configuration	тсрир			
System				
Wireless	IF Audress	Manually Assign		
Network		IP Address :	192.168.0.1	
User		Subnet Mask	255.255.255.0	
E-mail				
<u>SNMP</u>		Default Gateway :	0.0.0.0	
		C Automatically Assign		
	DNS Server Address	1, 0.0.0.0		
		2. 0.0.0.0	_	
	UPnP	Enable C Disable		
	MAC Rendezvous	Enable C Disable		
	Second HTTP Port	C Enable Disable		
		Port Number : 0		
		(For Remote Web Config	uration and IPP Printing)	
	Microsoft Network			
	Workgroup	WORKGROUP		
	AppleTalk			
	AppleTalk Zone	: *		
	USB	: Chooser Name :	PS-AF6465-U1	
		Printer Type	LaserWriter	
		PostScript Level	Level 2 -	
			Standard 35	
		i oni oroqp		
	Save Cancel			

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.

Microsoft Network

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

<u>AppleTalk</u>

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

- USB
 - **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.

Configuration → User

Management	Configuration	<u>Tools</u>	<u>Help</u>
Configuration System Wireless Network User E-mail SNMP	Allow Undefined Users Printing	: CYes ©No : CYes ©No	
	Define Users		-
	Add User : User Name	:]	Add
	MAC Address	:	-
	Printing Access	: @ Yes C No	
	Delete User 💠 💽		Delete
	User List : Name	MAC	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.

Configuration → E-mail

Management	Configuration	<u>Tools</u>	<u>Help</u>	
Configuration	E-mail Account			
<u>System</u> <u>Wireless</u>	Print Server E-mail Address :			
<u>Network</u> User	Incoming E-mail (POP3) Server Address :			_
E-mail	Outgoing E-mail (SMTP) Server Address :			-
<u>SNMP</u>	Account Name :			
	Password :			
	E-mail Notification			
	Enable e-mail notification for printer status of	changing :	C Yes 🖲 No	
	Notification e-mail will be sent to Admin's e-	mail address.		
	Admin E-mail Address :			
	ίυ	se ';' to separate n	nultiple e-mail address)	
	E-mail Printing			
	E-mail Printing (ASCII Text Only) : @	Enable 🤇 Disat	ole	
	Receive E-mail Interval : 16	5	(minutes)	
	Save			

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.

Configuration → SNMP

<u>Management</u>	<u>Confi</u>	iguration	<u>Tools</u>	<u>Help</u>
Configuration	SNMP Managem	ent		
System	Community 1	Name	: public	
<u>Wireless</u> Network		Access Right	Read/Write	
<u>User</u>	Community 2	Name	:	
E-mail SNMP		Access Right	Read Only	
	Community 3	Name	:	
		Access Right	: Read Only	
	Save Car	icel		

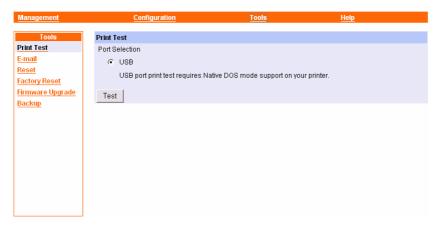
SNMP Management

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.

Tools

Tool → Print Test



Print Test

Click *Test* to print a test page.

Tool → E-mail

Management	Configuration	<u>Tools</u>	<u>Help</u>	
Management Tools Print Test E-mail Reset Factory Reset Firmware Upgrade Backup	Test E-mail Account E-mail test will send an e-mail to Admin's e-mail address. Do you want to test e-mail account? Test Receive E-mail Do you want to receive e-mail and print out?			
	Yes			

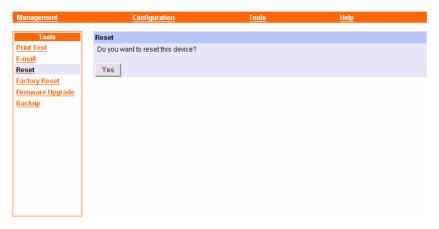
Test E-mail Account

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



<u>Reset</u>

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

Management	Configuration	Tools	Help
Tools	Backup Device Configuration to File		
Print Test	Do you want to backup the configurati	on to file?	
E-mail			
Reset	Backup		
Factory Reset			
Firmware Upgrade	Restore Device Configuration from Fi	le	
Backup			
	Select a Configuration File :		Browse
	Restore Cancel		
	Cancer		

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

Management	Configuration	<u>Tools</u>	Help	
Help	About			
<u>About</u>	Print Server v3.00f			

This screen displays the information of the print server.

6

PRODUCT SPECIFICATIONS

Printer Connection

Printer Interface: One USB port, compliant with USB 2.0 Hi-speed standard.

Network Connection

Wireless Networking

Network Standards: Wireless LAN standard IEEE802.11g.

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;
- 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

Power, USB, LAN, WLAN.

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