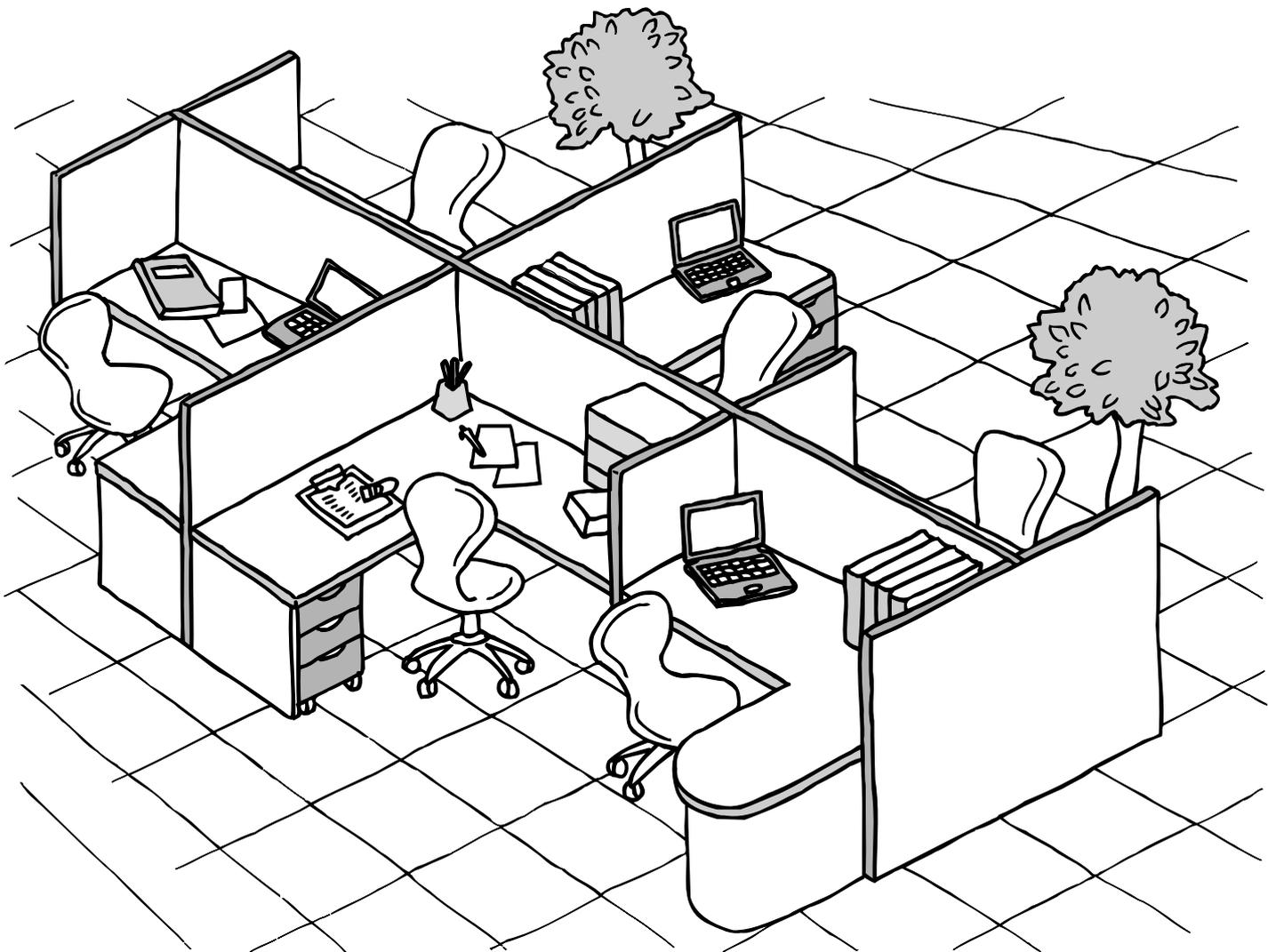


Panasonic[®]

Software Operating Instructions (For Panasonic Printing System PostScript3)

Model No. DP-180/190/1520P/1820P/1820E/2330/3030/3530/4530/6030



WORKIO[™]

Before operating this software, please read these instructions completely and keep these operating instructions for future reference.

English

Before Starting

Printer Section

Troubleshooting

Appendix

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System Requirements

- Personal Computer : IBM PC/AT and compatibles (CPU Pentium II or greater)
- Operating System : Windows 98^{*1}, Windows Me^{*2}, Windows NT 4.0^{*3} (Service Pack 3 or later is required), Windows 2000^{*4}, Windows XP^{*5}, Windows Server 2003^{*6}, Macintosh OS 8.6-9.2.2 (Adobe PS 8.8 or higher), OS X10, OS X10.1, OS X10.2.1, OS X10.3
- System Memory : The minimum recommended Memory for each OS is as follows:
 - Windows 98, Windows Me : 64 MB or greater
 - Windows 2000, Windows XP, Windows NT 4.0, Windows Server 2003 : 128 MB or greater
- Free Disk Space : 40MB or greater (Not including storage space for additional fonts)
- CD-ROM Drive : Used for installing the software and utilities from the CD-ROM.
- Interface : 10Base-T/100Base-TX Ethernet port / USB port. (Except for DP-3530/4530/6030)
Parallel Port (For DP-3530/4530/6030 only)

* 1 Microsoft® Windows® 98 operating system (hereafter Windows 98)

* 2 Microsoft® Windows® Millennium Edition operating system (hereafter Windows Me)

* 3 Microsoft® Windows NT® operating system Version 4.0 (hereafter Windows NT 4.0)

* 4 Microsoft® Windows® 2000 operating system (hereafter Windows 2000)

* 5 Microsoft® Windows® XP operating system (hereafter Windows XP)

* 6 Microsoft® Windows Server™ 2003 operating system (hereafter Windows Server 2003)

Installing the Printer Driver

Installation Procedures

This manual provides examples of instructions for installing, configuring and using the printer driver for your version of Windows OS.

To use as a USB Printer:

- Windows 98 : Follow the procedures on pages 16 to 19. (Connecting with a USB Cable)
- Windows Me : Follow the procedures on pages 20 to 23. (Connecting with a USB Cable)
- Windows NT : This Windows OS does not support a USB Printer.
- Windows 2000 : Follow the procedures on pages 24 to 26. (Connecting with a USB Cable)
- Windows XP/ : Follow the procedures on pages 27 to 29. (Connecting with a USB Cable)
- Windows Server 2003
- Mac 8.6/9x : Follow the procedures on pages 30 to 33. (Connecting with a USB Cable)
- Mac OS X : Follow the procedures on page 34 to 35. (Connecting with a USB Cable)

To use as a Network Printer:

- Windows 98 : Follow the procedures on pages 6 to 10 (Installing the Printer Driver) and then pages 36 to 39 (Installing the LPR Monitor).
- Windows Me : Follow the procedures on pages 6 to 10 (Installing the Printer Driver) and then pages 36 to 39 (Installing the LPR Monitor).
- Windows NT : Follow the procedures on pages 6 to 10 (Installing the Printer Driver) and then pages 40 to 43 (Installing the LPR Monitor).
- Windows 2000 : Follow the procedures on pages 6 to 10 (Installing the Printer Driver) and then pages 44 to 47 (Installing the LPR Monitor).
- Windows XP/ : Follow the procedures on pages 6 to 10 (Installing the Printer Driver) and then pages 44 to 47 (Installing the LPR Monitor).
- Windows Server 2003
- Mac 8.6/9x : Follow the procedures on pages 11 to 13 (Installing the Printer Driver)
- Mac OS X : Follow the procedures on pages 14 to 15 (Installing the Printer Driver)

Windows

1

Exit from all applications, then insert the Panasonic Printing System CD into the CD-ROM drive.

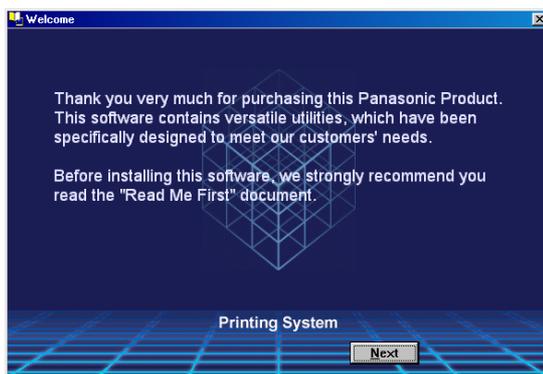
2



Select the desired language.

- Note:**
1. If the CD-ROM does not launch automatically, double click the **My Computer** icon on the Desktop or on the **Start** menu, then double click the CD-ROM icon.
 2. The language screen differ depending on the models.

3



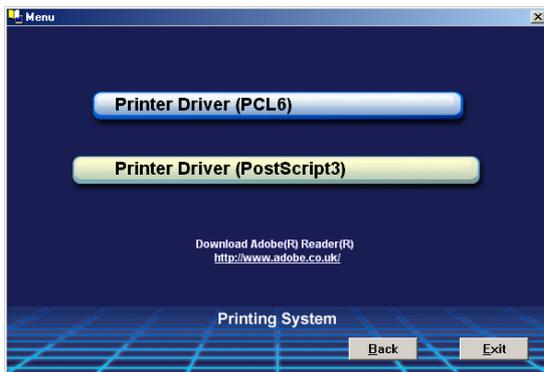
The setup screen will appear.

Click the button.

Installing the Printer Driver

Windows

4



Click **Printer Driver (PostScript3)**.

5

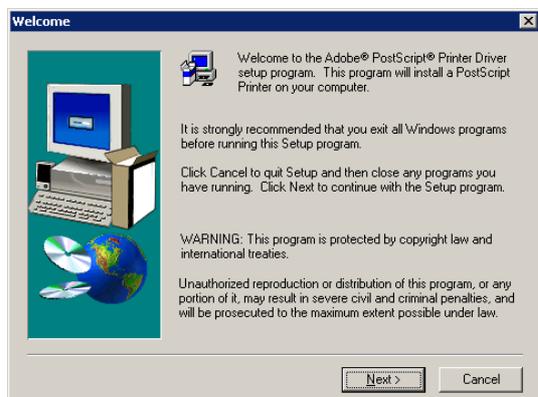


Note for Windows 98/Windows Me users:

If your computer does not have the LPR Port Monitor installed, please proceed to "Installing the LPR Monitor" on page 36 before continuing this installation.

Click **Install Printer Driver (PostScript3)**.

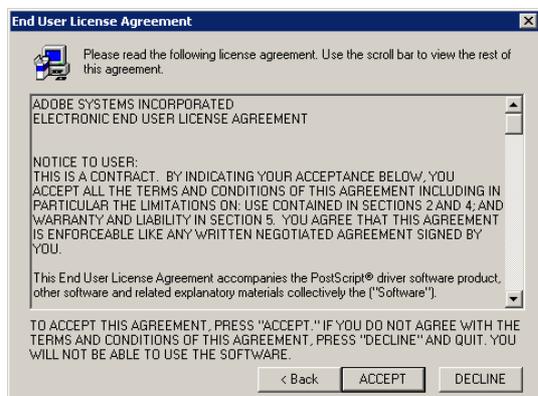
6



The setup wizard will start.

Click the **Next** button.

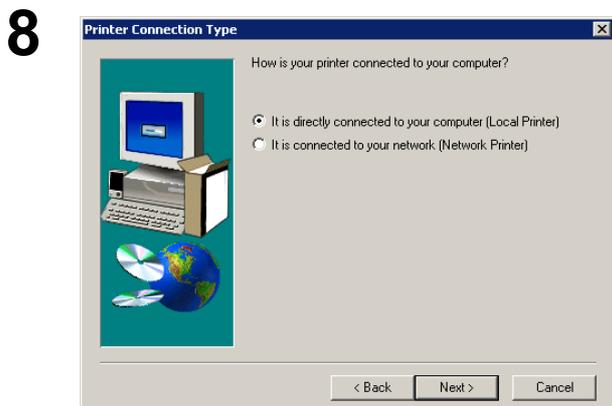
7



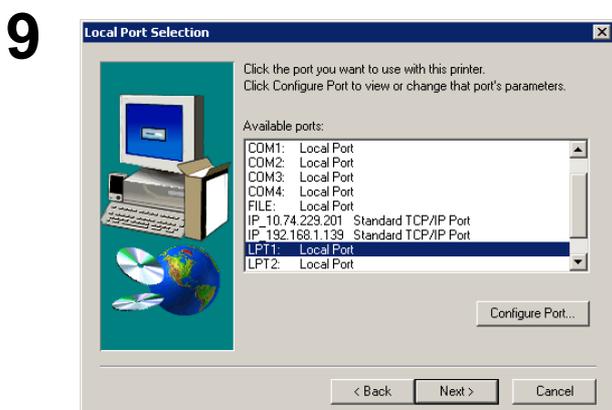
Read the End User License Agreement, then click the **ACCEPT** button.

Installing the Printer Driver

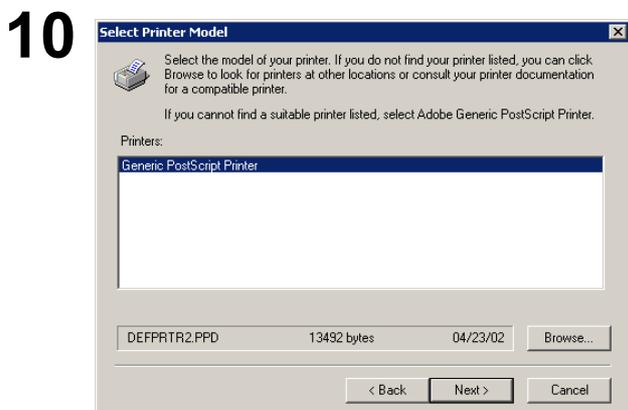
Windows



Select **Local Printer**, then click the **Next** button.

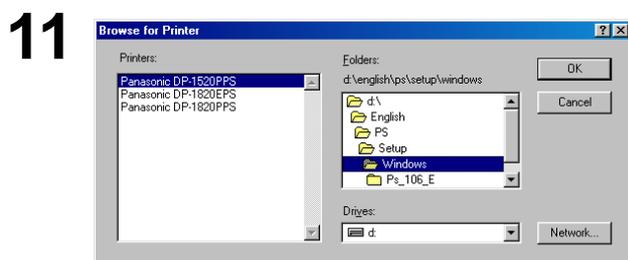


Select a printer port, normally **LPT1** for local printers. Click the **Next** button.



The **Select Printer Model** window appears. Click the **Browse...** button.

Note: A screen will appear with *Generic PostScript Printer* highlighted. Do not select this printer.



The **Browse for Printer** screen appears. Select the folder directory where the PPD files are stored. On the CD-ROM they are under **D:\English\PS\Setup\Windows** (where "D" is your CD-ROM driver).

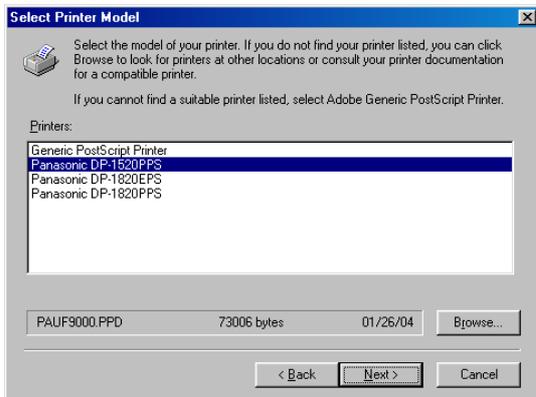
The printer models are also displayed.

Click the **OK** button.

Installing the Printer Driver

Windows

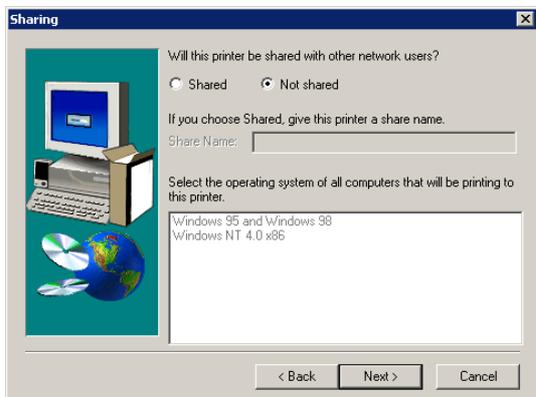
12



Choose your machine's model and click the

button.

13

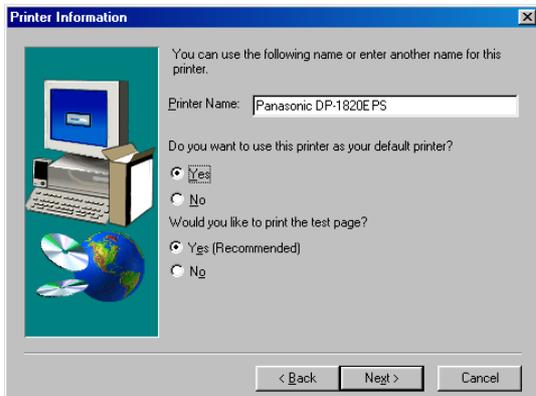


Specify whether the printer will be shared with other network users. Click **Shared** and enter a shared name, or click **Not shared**.

Click the button.

Note: *This screen does not appear in Windows 98/Windows Me. Sharing information is specified during Network Settings.*

14



Printer Information screen appears.

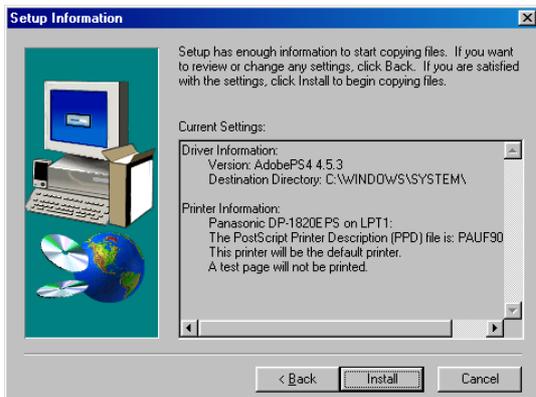
You can accept the default printer name shown or change it as you wish.

Select **Yes**, if you want to use this printer as your default Windows printer.

Select **Yes**, if you would like to print a test page.

Click the button.

15



Verify the settings in the **Setup Information** screen.

Click the button.

Installing the Printer Driver

Windows

16

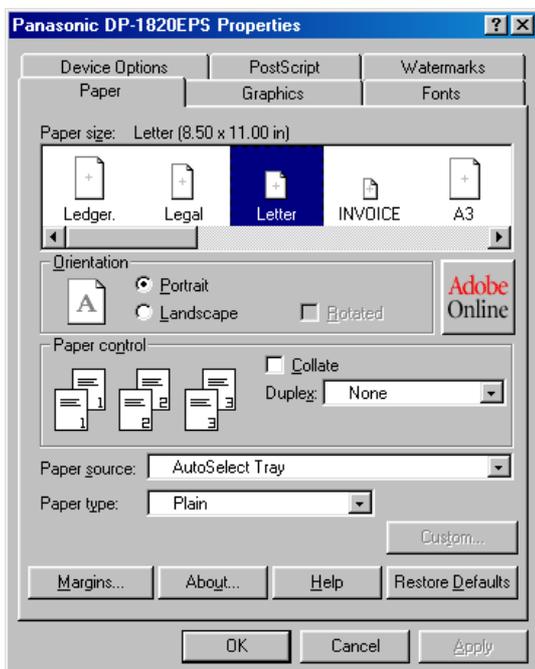


The **Printer Configuration** screen appears. Select **Yes**, to configure your printer now.

Click the **Next** button.

17

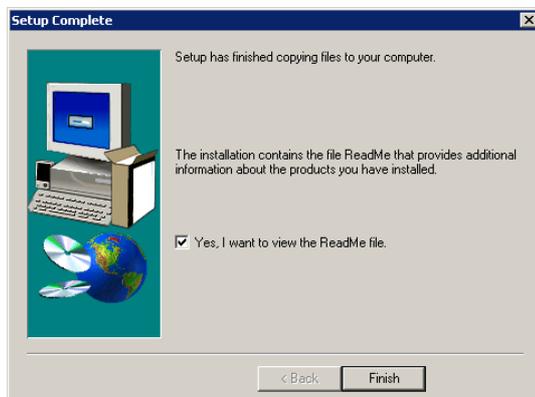
<i.e. Windows 98/Windows Me>



Click the **OK** button to return to the setup wizard.

Note: For printer properties, refer to "Configuring the Printer Driver Settings". (See pages 52 - 85)

18



Select **Yes**, if you want to view the **ReadMe** file.

Click the **Finish** button.

The Panasonic PostScript Printer Driver has been installed, and the Panasonic Printer icon has been created in the Printers folder.

NOTE

1. When installing on Windows NT 4.0 and Windows 2000/XP/Windows Server 200, logon to the computer/network using an account with administrator rights.

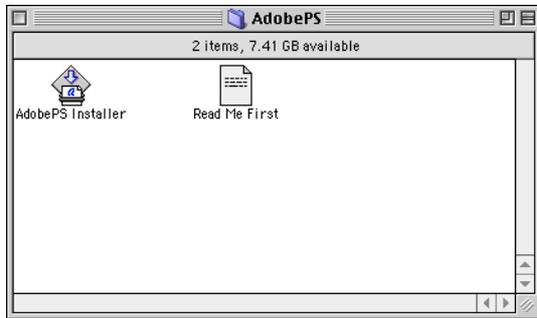
Installing the Printer Driver

Mac OS 8.6/9.x

1

Exit from all applications, then insert the Panasonic Printing System CD into the CD-ROM drive.

2



Double-click the CD icon on the desktop.

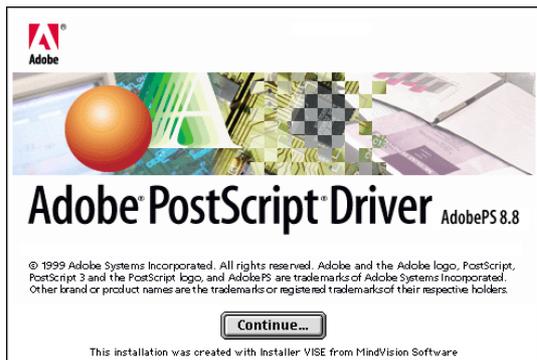
English > PS > Setup > Mac > ps_88_E > US.sea.hqx

Please decompress **US.sea.hqx** with decompression tool.

Double-click the **AdobePS Installer** icon to start the setup.

Note: *Installation instructions*
A ".hqx" ".sit" ".sea" file on a Macintosh, use *Stuffit Deluxe* or *Stuffit Expander* by Aladdin Systems (<http://www.aladdinsys.com/>) to access the file's contents. *Stuffit Expander* is available as a freeware product.

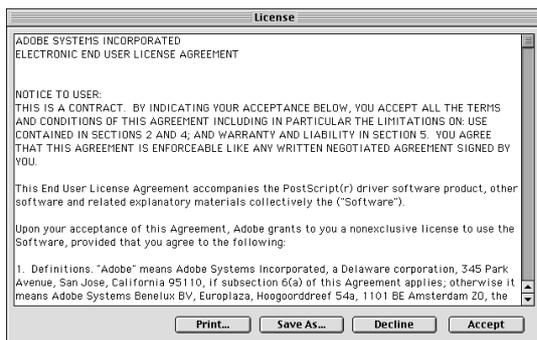
3



The setup screen will be displayed.

Click the button.

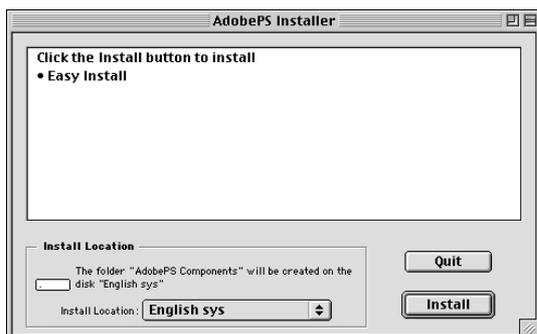
4



Read End User License Agreement, then click the

button.

5



Verify the installation location.

Click the button.

Note: *The printer driver must be installed on the disk with the active System software. If you want to change the location, click on the popup list for an installation location, choose [Select Folder] then choose or create a new folder.*

Installing the Printer Driver

Mac OS 8.6/9.x

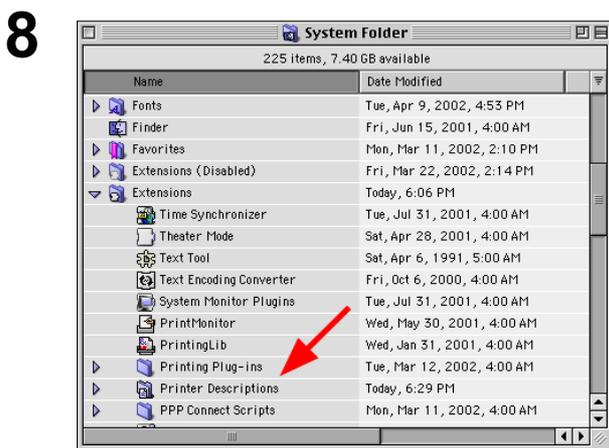


A progress bar indicates that the printer driver is being installed.

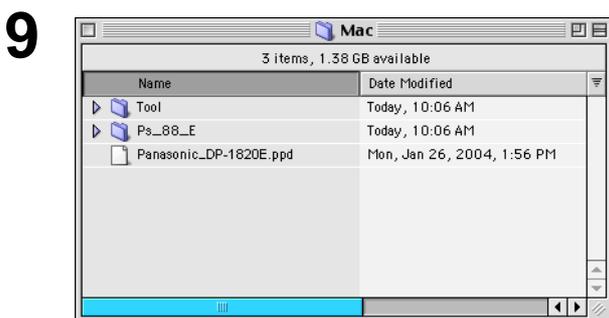


Click the **Quit** button.

After completing the installation of the AdobePS Printer Driver, you must copy the PostScript printer description (PPD) file into the **System Folder** as follows:



Open the following folder within your Macintosh.
System Folder > Extensions > Printer Descriptions



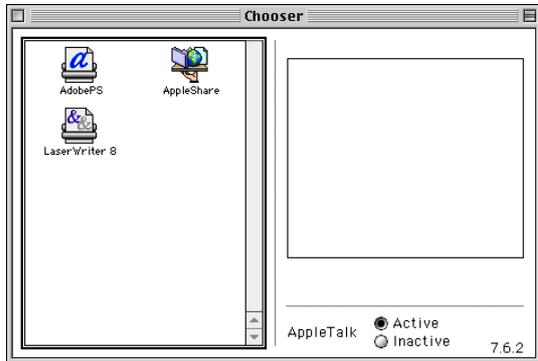
Open the **Mac** folder within the CD-ROM. Select your printer model file, and drag it into your Printer Descriptions folder.

The AdobePS Printer Driver is installed, and the AdobePS icon is added to the **Chooser**.

Installing the Printer Driver

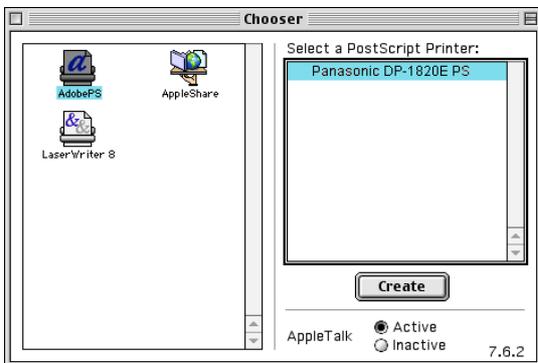
Mac OS 8.6/9.x

10



Select the **Apple Menu**, then select **Chooser**.

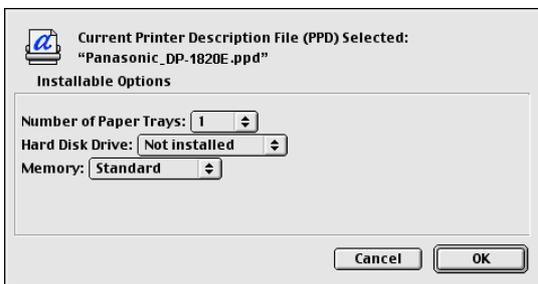
11



Click the **AdobePS** icon as shown in the illustration. Select your printer "Panasonic DP-xxxx" on the right.

Click the **Create** button.

12



Confirm and/or change the Installable Options settings for your printer.

Click the **OK** button.

13

If you close **Chooser**, skip to Step 15.

If you click the **Setup...** button, go to Step 15.

14



Click the **OK** button.

Close **Chooser**.

The driver creates a new desktop printer icon for your device.



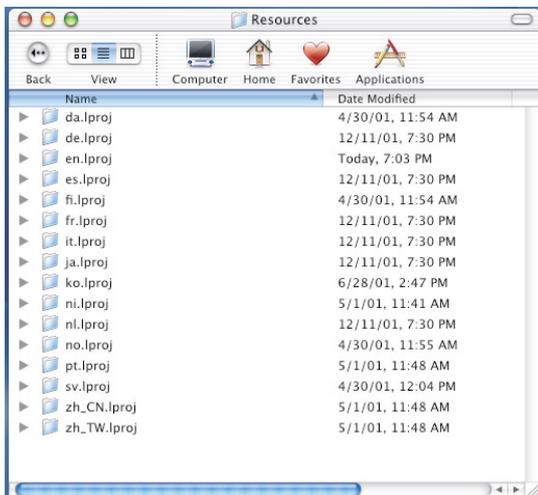
Installing the Printer Driver

Mac OS X

A PostScript printer driver is already provided in Mac OS X. You need to install the PostScript printer description (PPD) file into your system for printing.

To manage the Account Management with the Accounting Manager software, it is essential to setup the Department Code with the PS Driver Security Utility before the Printer Driver is installed.

1

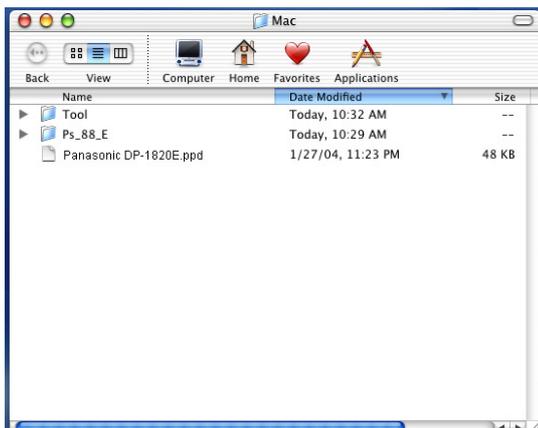


Please copy the PostScript printer description (PPD) file into the Library folder as follows:

Open the following folder within your Macintosh.

Library > Printers > PPDs > Contents > Resources > en.lproj

2

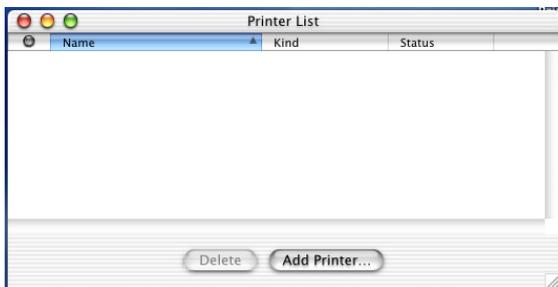


Open the **Mac** folder within the CD-ROM.

Select your printer model file, and drag it into your **en.lproj** folder.

Note: Open the **Mac > MacOSX102_103** folder on the Mac OS X10.2, Mac OS X10.3.

3



Open the following folder within your Macintosh.

Applications > Utilities > Print Center

Click the **Add Printer...** button.

A list of available AppleTalk printers appears.

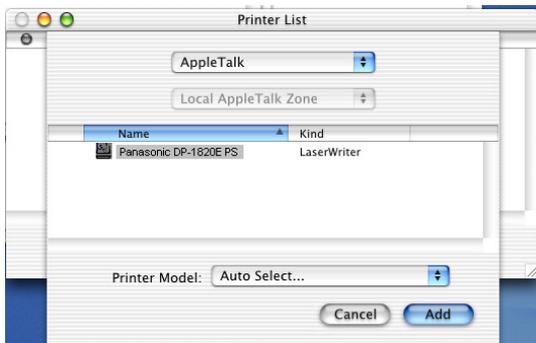
Select your machine's model

("Panasonic DP-xxxx").

Installing the Printer Driver

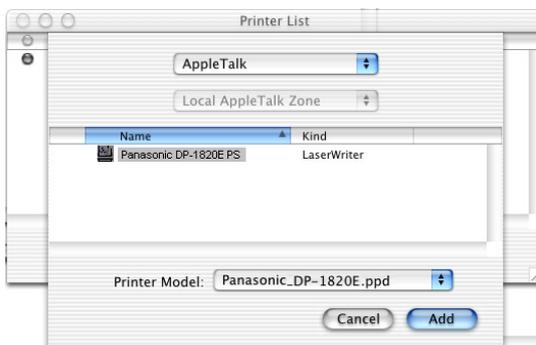
Mac OS X

4



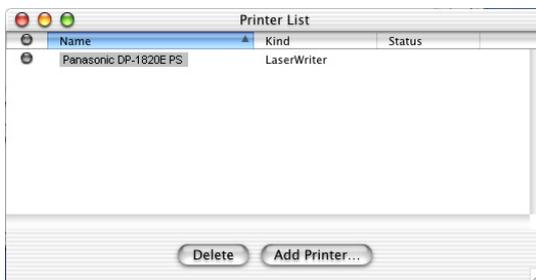
Click on the **Printer Model** pull-down menu, and select "**Panasonic DP-xxxxx PS**".

5



Click the **Add** button.

6



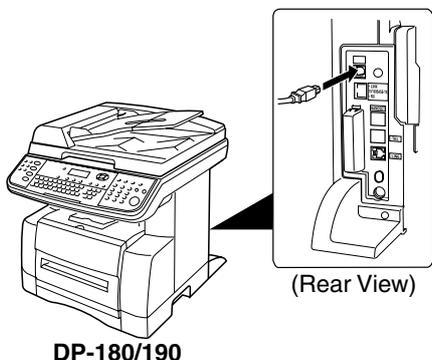
Your machine is added to the Printer List.

Installing the Printer Driver

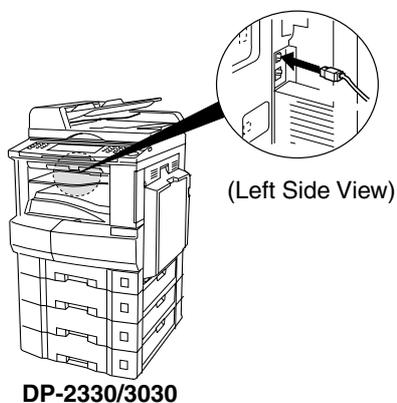
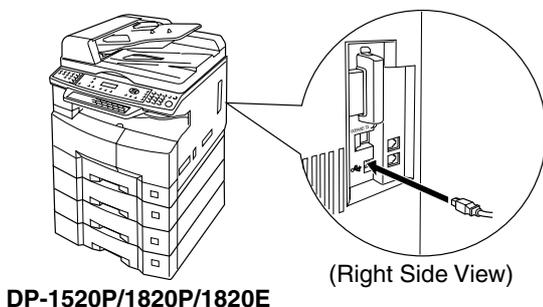
Connecting with a USB Cable (Windows 98)

To use the printer by means of a USB cable connection, install the printer driver by following the steps below.

1



Connect the printer to the PC with a USB cable.
Turn the Power Switch of your machine ON.



2



The **New Hardware Found** dialog box appears for a brief moment, followed by the **Add New Hardware Wizard** dialog box.

Click the button.

Connecting with a USB Cable (Windows 98)

3



Select **Search for the best driver for your device**.

Click the **Next** button.

4

Insert the CD-ROM included with the Option.

5



Select **Specify a location** and type **D:\English\PS\Setup\Windows\Ps_106_E\WinUsbDrv** (where "D:" is your CD-ROM drive).

Click the **Next** button.

6



Click the **Next** button.

7



Click the **Finish** button.

Installing the Printer Driver

Connecting with a USB Cable (Windows 98)

8



The **New Hardware Found** dialog box appears for a brief moment, followed by the **Add New Hardware Wizard** dialog box.

Click the button.

9



Select **Search for the best driver for your device**.

Click the button.

10



Select **Specify a location** and type **D:\English\PS\Setup\Windows\Ps_106_E\Windows** (where "D:" is your CD-ROM drive).

Click the button.

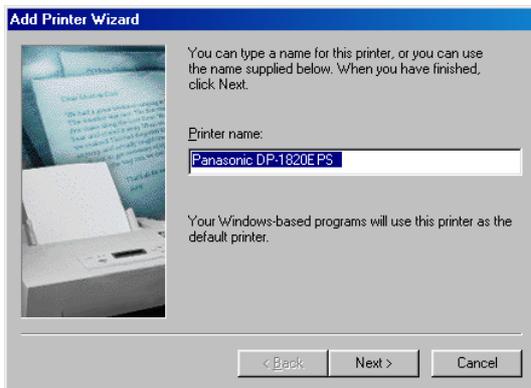
11



Click the button.

Connecting with a USB Cable (Windows 98)

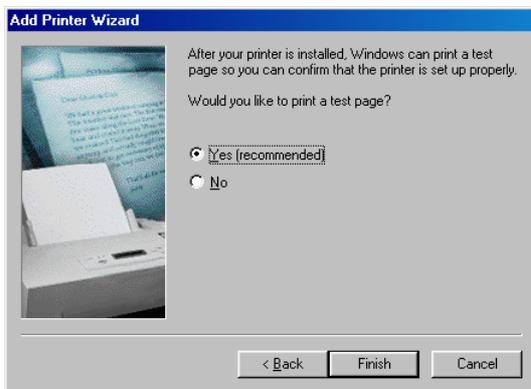
12



Enter the Printer name and click the

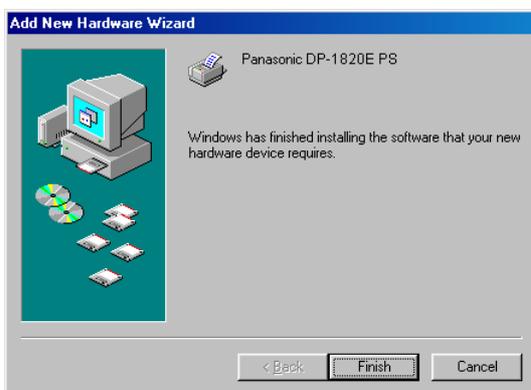
Next button.

13



Click the **Finish** button.

14

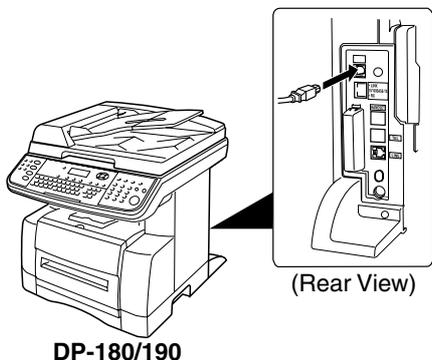


Click the **Finish** button.

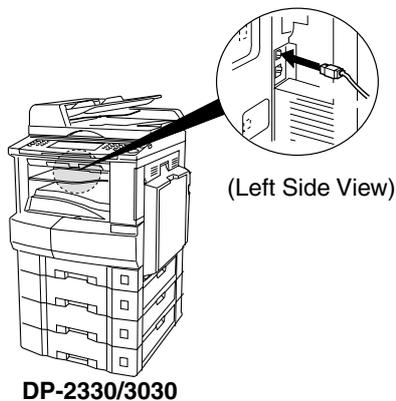
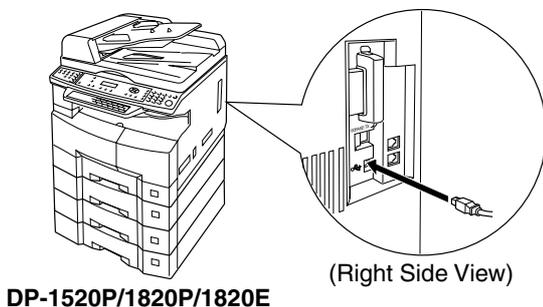
Installing the Printer Driver

Connecting with a USB Cable (Windows Me)

1



Connect the printer to the PC with a USB cable. Turn the Power Switch of your machine ON.



2



The **New Hardware Found** dialog box appears for a brief moment, followed by the **Add New Hardware Wizard** dialog box.

Select **Specify the location of the driver**.

Click the button.

3

Insert the CD-ROM included with the Option.

Connecting with a USB Cable (Windows Me)

4



Select **Specify a location** and type **D:\English\PS\Setup\Windows\Ps_106_E\WinUsbDrv** (where "D:" is your CD-ROM drive).

Click the  button.

5



Click the  button.

6



Click the  button.

7



The **New Hardware Found** dialog box appears for a brief moment, followed by the **Add New Hardware Wizard** dialog box.

Select **Specify the location of the driver**.

Click the  button.

Installing the Printer Driver

Connecting with a USB Cable (Windows Me)

8



Select **Specify a location** and type **D:\English\PS\Setup\Windows\Ps_106_E\Windows** (where "D:" is your CD-ROM drive).

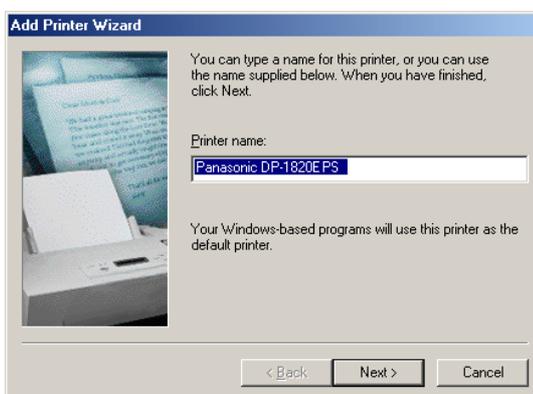
Click the  button.

9



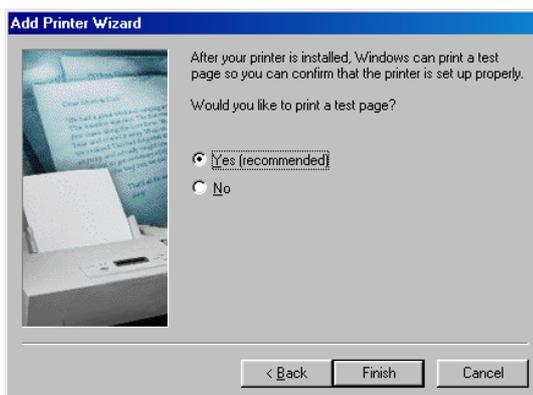
Click the  button.

10



Enter the Printer name and click the  button.

11



Click the  button.

Connecting with a USB Cable (Windows Me)

12

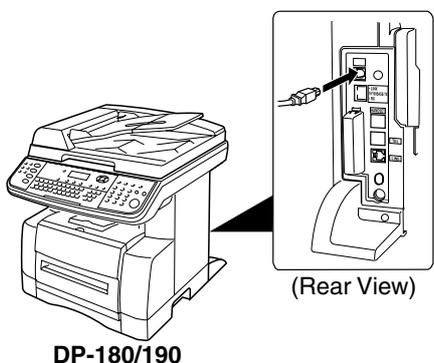


Click the button.

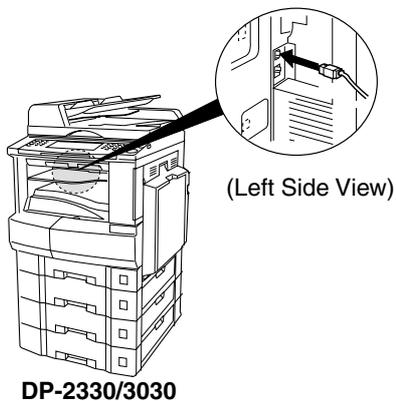
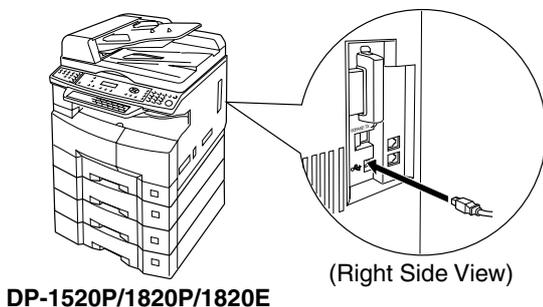
Installing the Printer Driver

Connecting with a USB Cable (Windows 2000)

1



Connect the printer to the PC with a USB cable.
Turn the Power Switch of your machine ON.



2



The **Found New Hardware Wizard** dialog box appears.

Click the button.

Connecting with a USB Cable (Windows 2000)

3



Select **Search for a suitable driver for my device**.

Click the  button.

4

5



Insert the CD-ROM included with the Option.

Select **Specify a location**.

Click the  button.

6



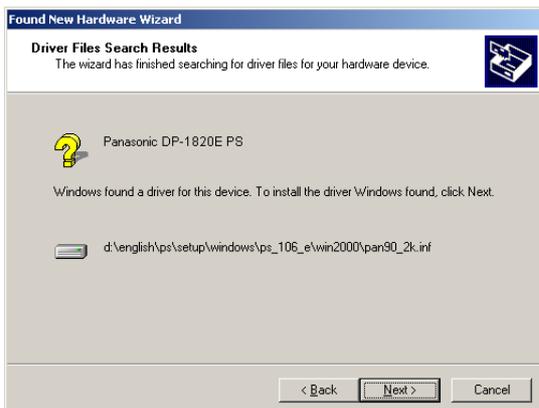
Type

D:\English\PS\Setup\Windows\Ps_106_E\Win2000

(where "D:" is your CD-ROM drive).

Click the  button.

7



Click the  button.

Installing the Printer Driver

Connecting with a USB Cable (Windows 2000)

8



Click the button.

9

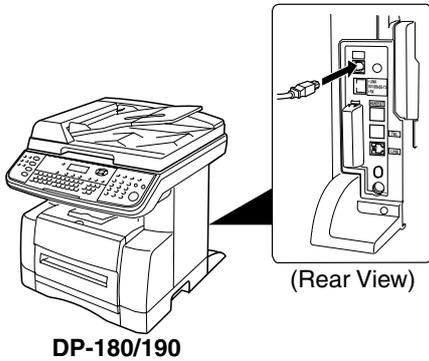


Click the button.

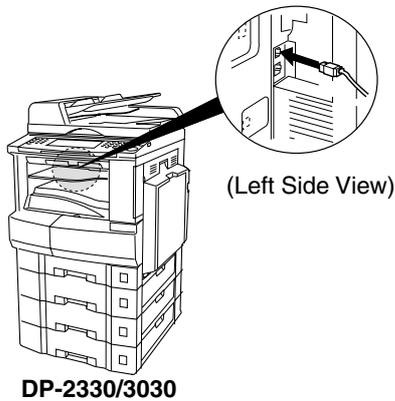
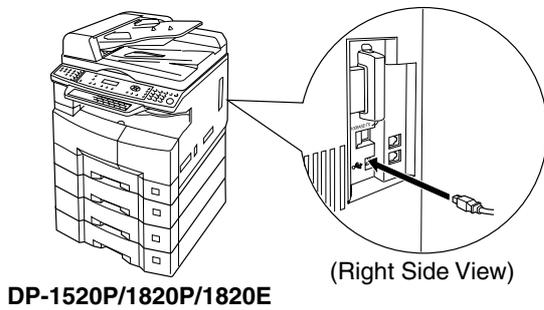
Installing the Printer Driver

Connecting with a USB Cable (Windows XP/Windows Server 2003)

1



Connect the printer to the PC with a USB cable.
Turn the Power Switch of your machine ON.



2



<Windows XP Service Pack 2>
Select **No, not this time** and click the
 button.

Installing the Printer Driver

Connecting with a USB Cable (Windows XP/Windows Server 2003)

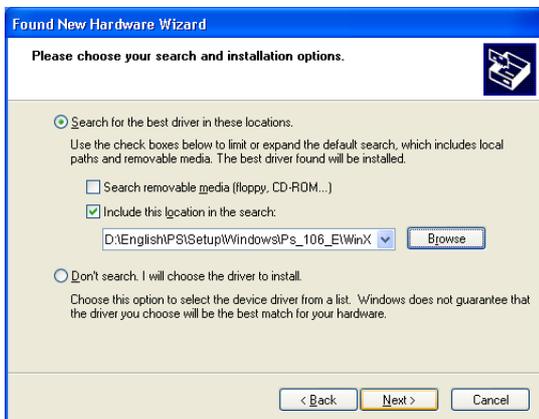
3



The **Found New Hardware Wizard** dialog box appears. Select **Install from a list or specific location (Advanced)**.

Click the  button.

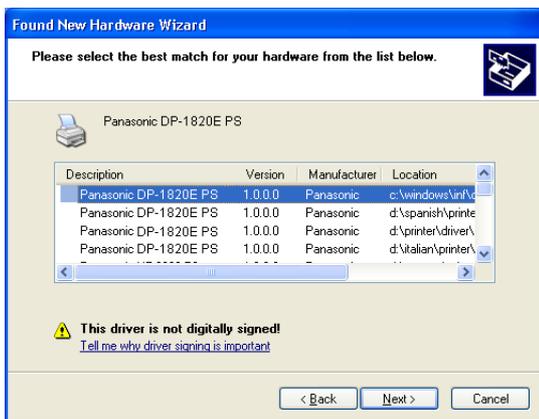
4



Select **Include this location in the search**. Type **D:\English\PS\Setup\Windows\Ps_106_E\WinXP-2003** (where "D:" is your CD-ROM drive). Insert the CD-ROM included with the Option.

Click the  button.

5



This message may appear if you have a previous version of the printer driver installed.

Select the latest version of the *.inf file and click the  button.

Installing the Printer Driver

Connecting with a USB Cable (Windows XP/Windows Server 2003)

6



Click the button.

7



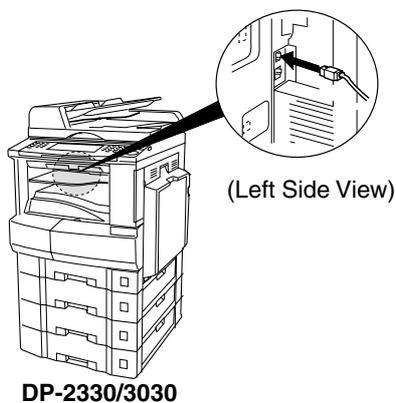
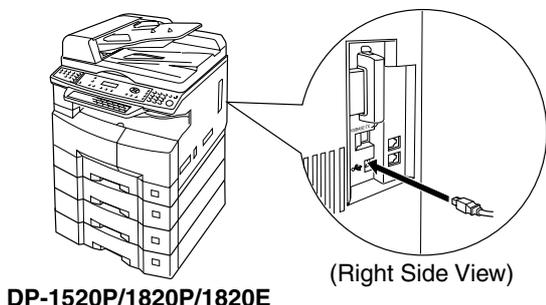
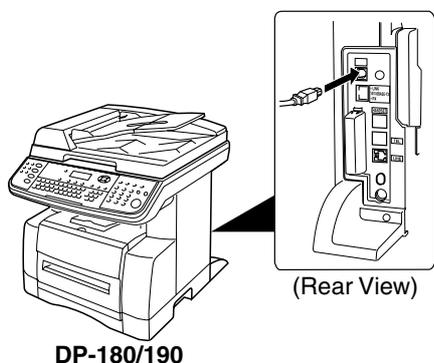
Click the button.

Installing the Printer Driver

Connecting with a USB Cable (Mac 8.6/9x)

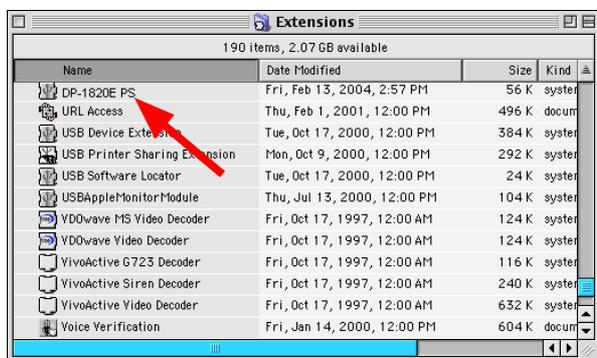
1

Connect the printer to the PC with a USB cable. Turn the Power Switch of your machine ON.



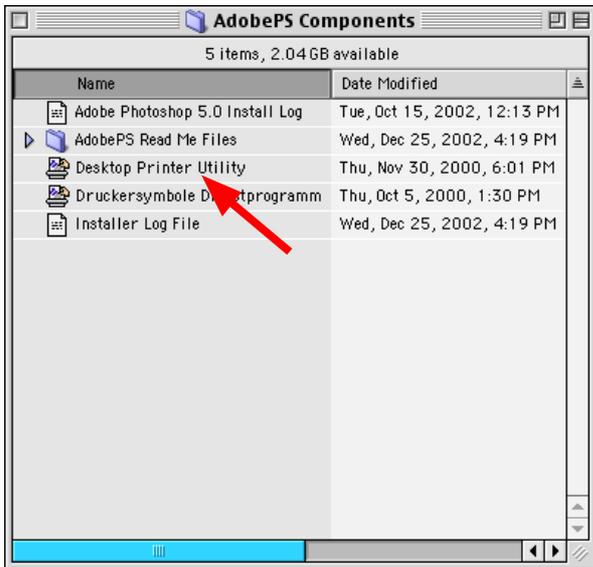
2

Extract the **DP-xxxxx PS** from the **DP-xxxxx PS.sit** in the CD-ROM and paste it onto the **System Folder > Extensions**.



Connecting with a USB Cable (Mac 8.6/9x)

3



Activate the **Desktop Printer Utility** on the **Adobe PS Components** within your Macintosh.

Note: If the *Desktop Printer Utility* is not on the *Adobe PS Components*, follow the steps 1 to 7 on page 11 and 12.

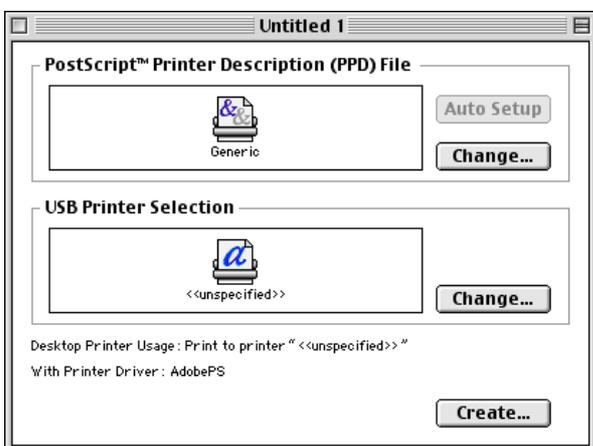
4



Select **AdobePS** from **With** menu and select the **Printer (USB)** on the **Create Desktop...** menu.

Click the **OK** button.

5



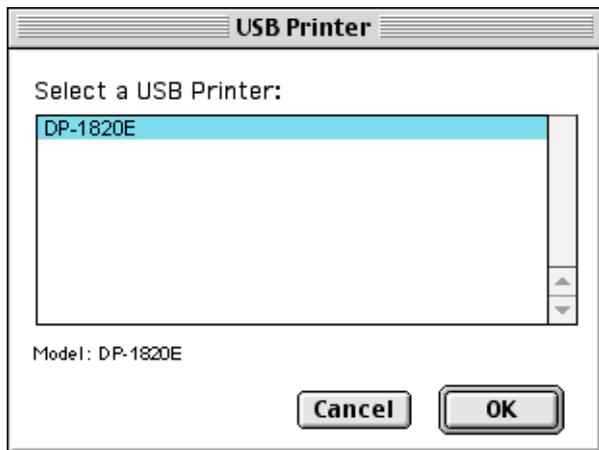
Click the **Change...** button on the **USB Printer Selection**.

Continued on the next page...

Installing the Printer Driver

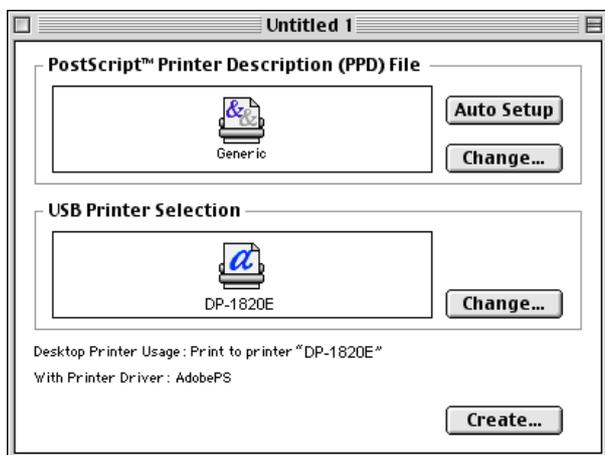
Connecting with a USB Cable (Mac 8.6/9x)

6



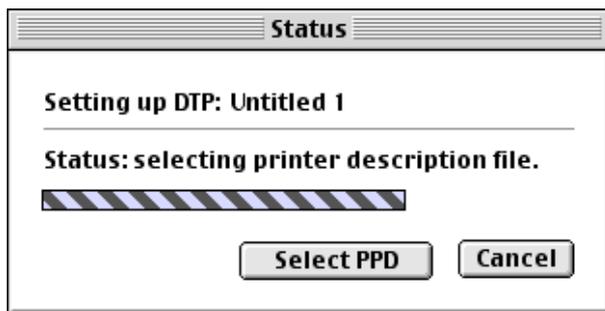
Select your machine and click the **OK** button.

7



Click the **Auto Setup** button on the **PostScript Printer Description (PPD) File**.

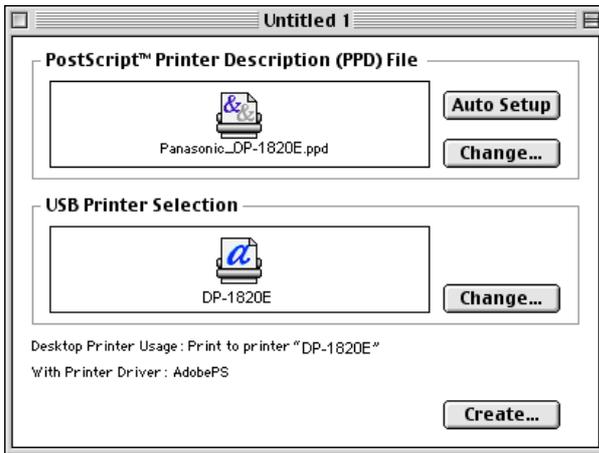
8



A status bar indicates that the printer driver is being installed.

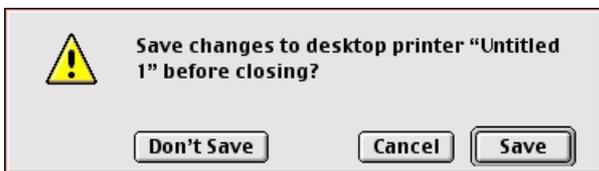
Connecting with a USB Cable (Mac 8.6/9x)

9



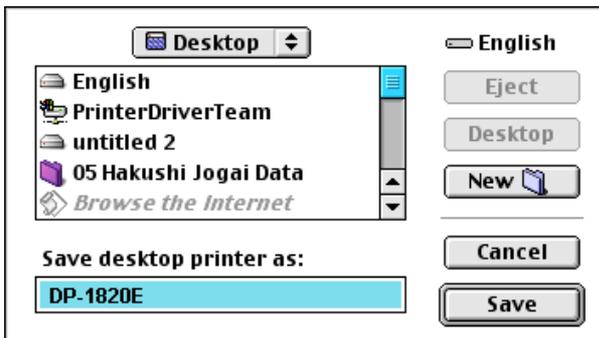
Click the **Create...** button.

10



Click the **Save** button.

11



Click the **Save** button.

12



A status bar indicates that the printer driver is being installed.

13



The driver creates a new desktop printer icon for your device.

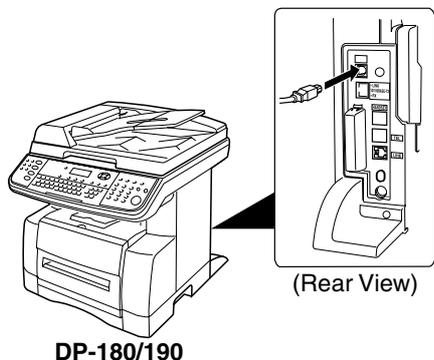
NOTE

1. Click the **Set_Default Printer** in the **Printing** menu when your machine is set to the default printer.

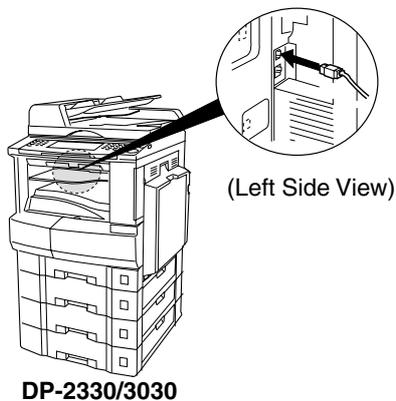
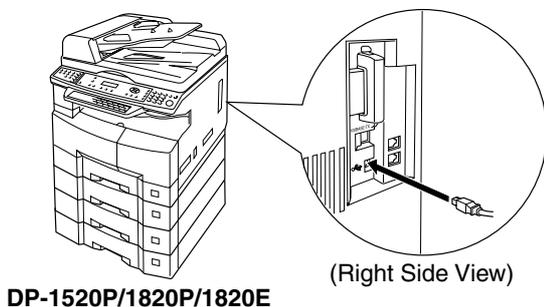
Installing the Printer Driver

Connecting with a USB Cable (Mac OS X)

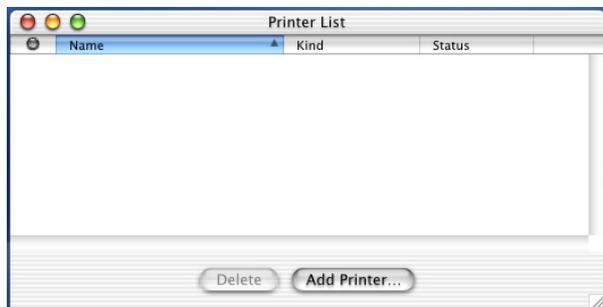
1



Connect the printer to the PC with an USB cable. Turn the Power Switch of your machine ON.



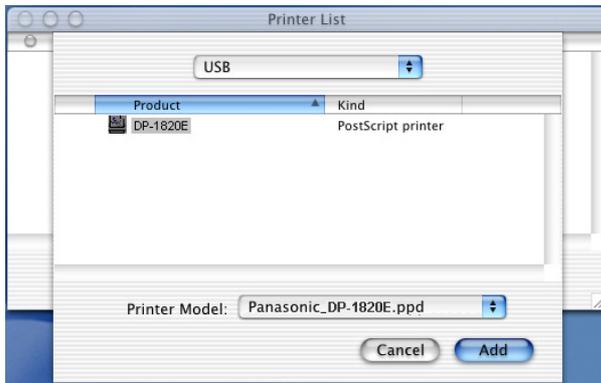
2



Open the **Printer Center** and click the **Add Printer...** from the **Printers** menu.

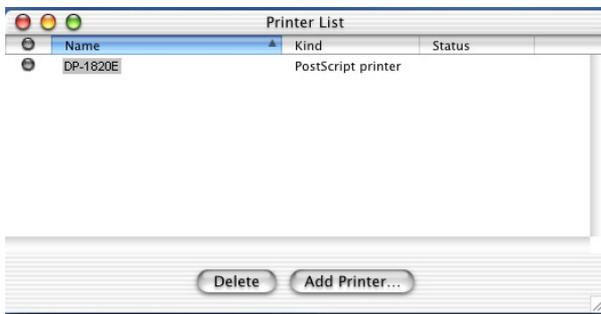
Connecting with a USB Cable (Mac OS X)

3



1. Select USB.
2. Select your printer.
3. Select **Auto Select** or **Panasonic_DP-xxxx.ppd** from the **Printer Model** menu.
4. Click the **Add** button.

4



Your machine is shown on the Printer List. Close the **Printer Center**.

NOTE

1. Open the **Printer Center** and click your machine, then select **Make Default** from the **Printers** menu when your machine is set to the default printer.

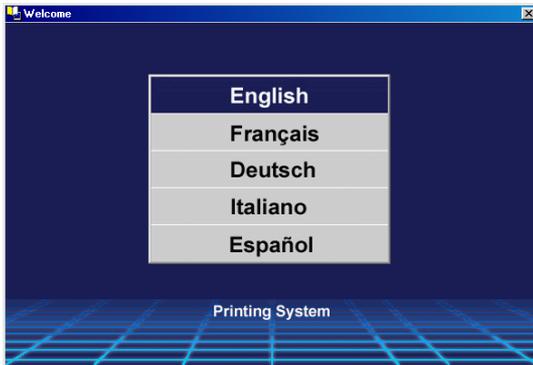
Installing the LPR (Line Printer Remote) Monitor

Windows 98/Windows Me

1

Insert the Panasonic Printing System CD-ROM.

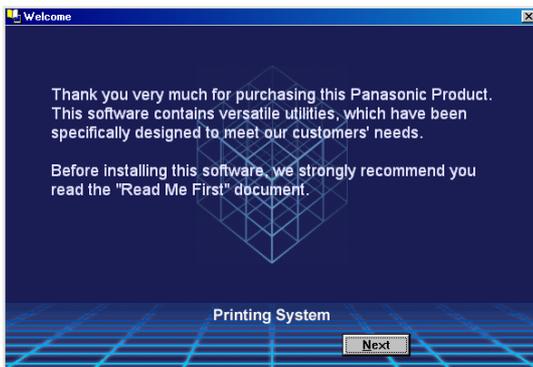
2



Click on the desired language.

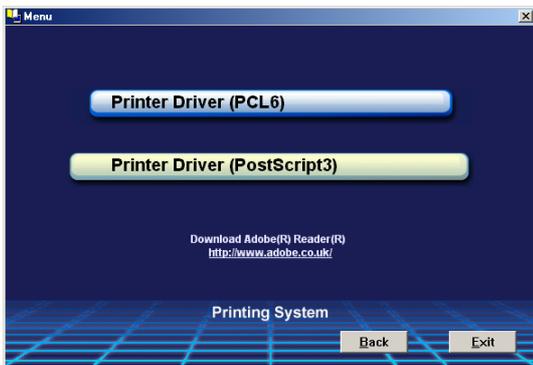
Note: 1. If the CD-ROM does not launch automatically, double click the **My Computer** icon on the Desktop or on the **Start** menu, then double click the CD-ROM icon.
2. The language screen differ depending on the models.

3



Click the button.

4



Click **Printer Driver (Post Script3)**.

5

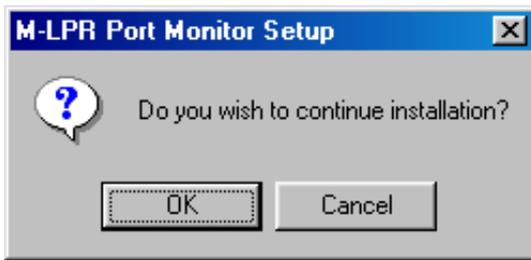


Click **Install LPR Monitor**.

Installing the LPR (Line Printer Remote) Monitor

Windows 98/Windows Me

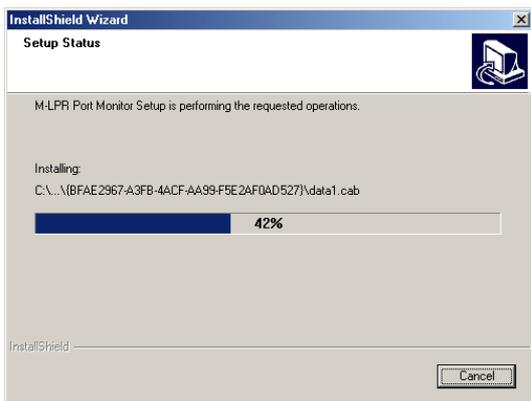
6



The **M-LPR Port Monitor Setup** dialog box appears.

Click the button.

7



The required files are copied.

8



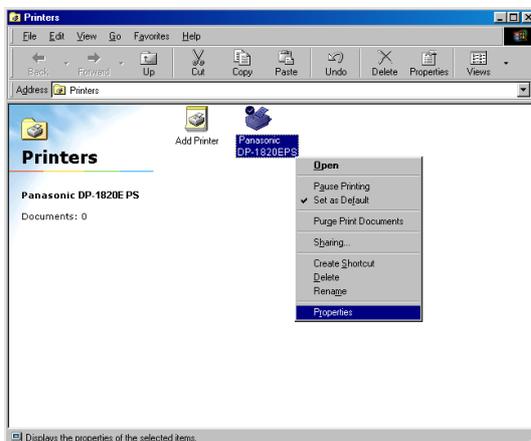
The setup program copies the necessary files onto the hard disk of your PC.

When the setup process is completed, a screen is displayed prompting you to restart your computer.

It is recommended that you restart your computer now so that the LPR Monitor can be started.

Click the button.

9



If you have not installed the printer driver yet, please proceed to "Installing the Printer Driver" on page 6.

After your computer has rebooted, click the **Start** button, select **Settings**, and then click **Printers**.

The **Printers** folder appears.

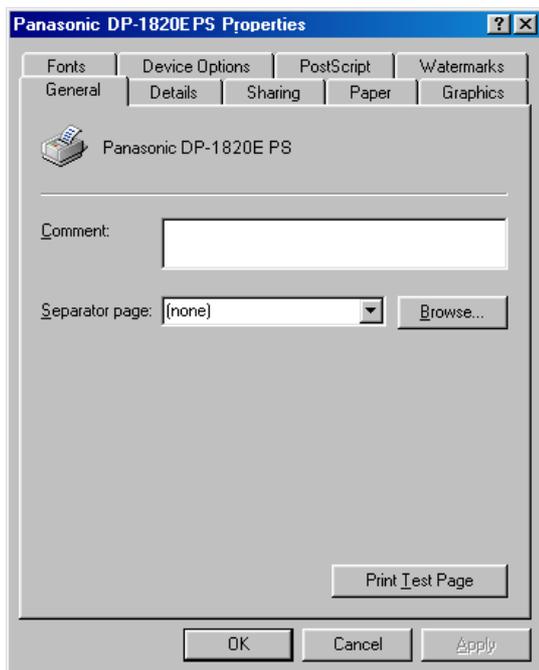
Right-click on the desired printer icon and select **Properties** from the pop-up menu.

Continued on the next page...

Installing the LPR (Line Printer Remote) Monitor

Windows 98/Windows Me

10

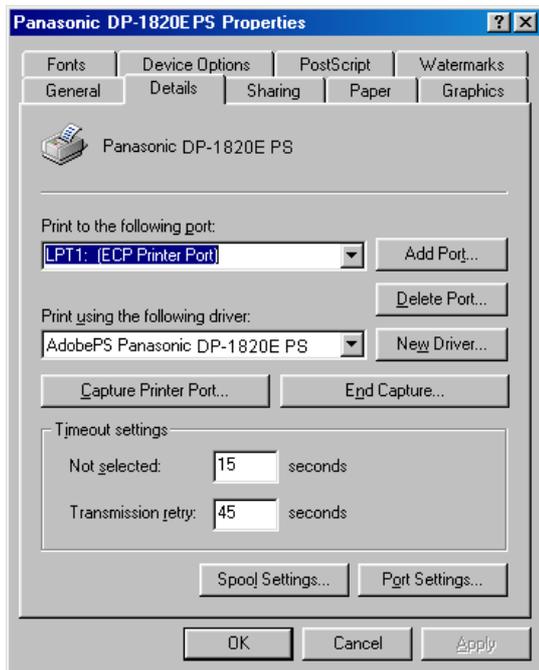


The printer properties dialog box appears.

The following step registers the LPR Port for network printing.

Before proceeding, ensure that the printer is installed, connected to the network, turned ON and is operating properly.

11

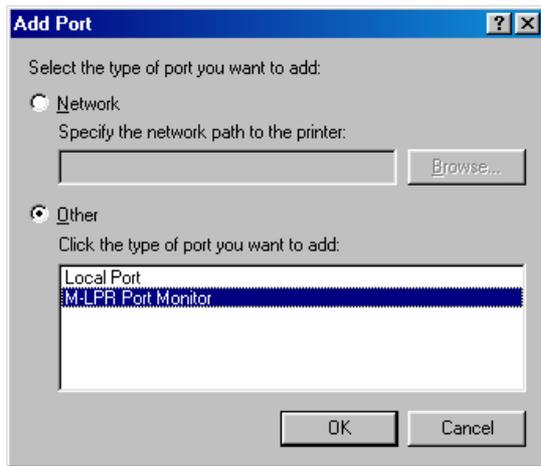


Select the **Details** tab and click the  button.

Installing the LPR (Line Printer Remote) Monitor

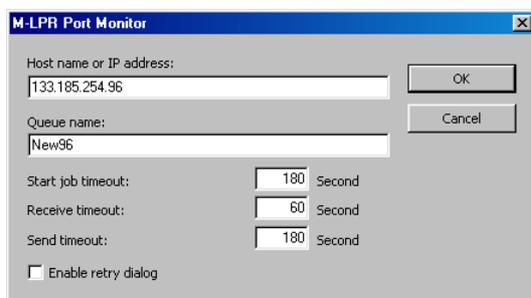
Windows 98/Windows Me

12



The **Add Port** dialog box appears. Click the **Other** radio button, select **M-LPR Port Monitor** from the "Click the type of port you want to add:" list, and click the **OK** button.

13

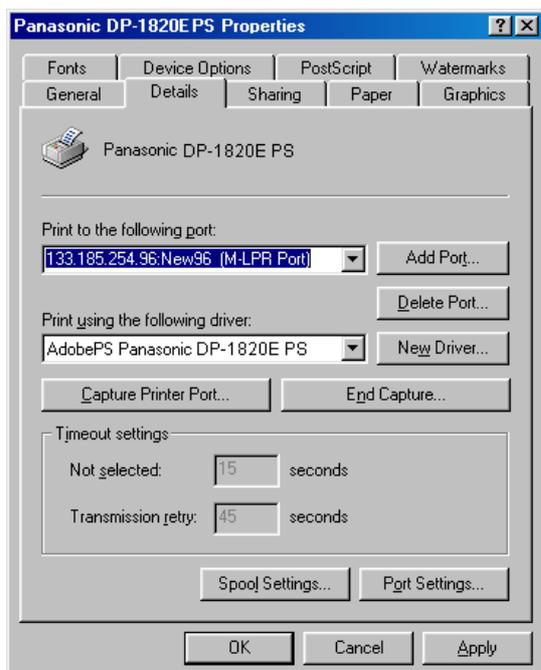


The **M-LPR Port Monitor** dialog box appears.

Type the IP Address of the machine in the **Host name or IP address:** text box and the queue name (e.g. New105) in the **Queue name:** text box.

Click the **OK** button. If an error occurs because the queue name has already been used for the same IP Address, select a different unique name such as "New106".

14



The screen reverts to the Printer Properties.

Check that the "Print to the following port:" has been changed as entered in step 13, and click on the **Apply** button first and then the **OK** button.

The printer properties dialog box closes and you have now configured the printer as a network printer.

NOTE

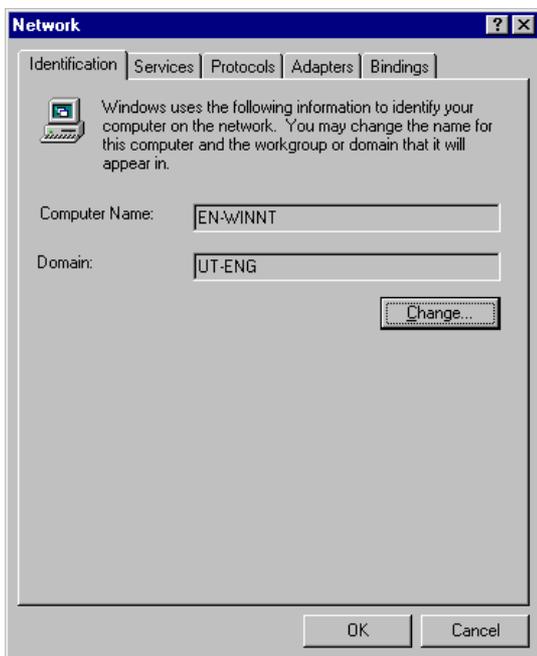
1. To print data via LAN, the LPR Monitor must be installed on your PC.

Installing the LPR (Line Printer Remote) Monitor

Windows NT 4.0

Logon using an account with administrator rights.

1



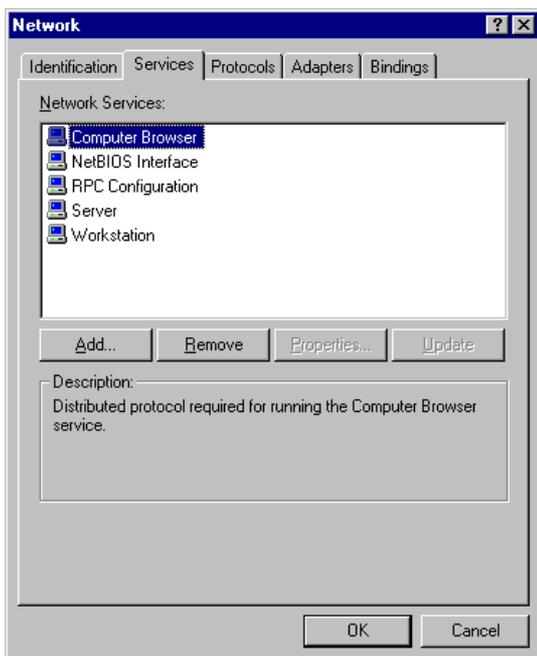
Click the **Start** button, select **Settings**, and click **Control Panel**.

The **Control Panel** window appears.

Double-click on the **Network** applet.

The **Network** dialog box appears.

2



Click on the **Services** tab.

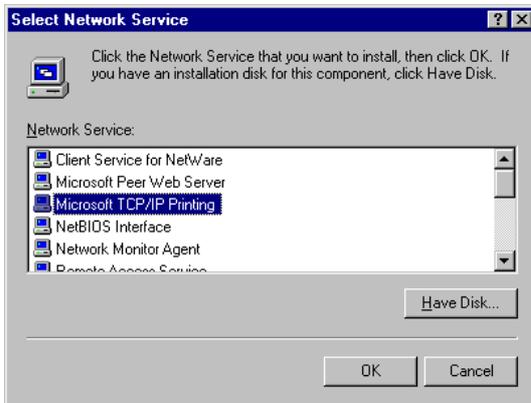
Verify whether the LPR Service is already installed. (Indicated by **Microsoft TCP/IP Printing** shown in the Network Services list.)

If it is already installed, skip to Step 7. Otherwise continue installing the LPR Service.

Installing the LPR (Line Printer Remote) Monitor

Windows NT 4.0

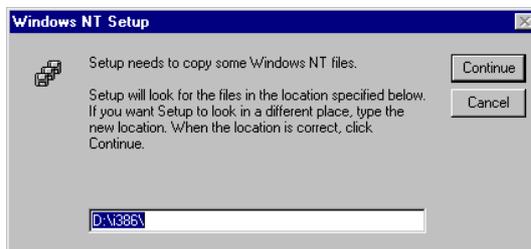
3



Click the button to display the **Select Network Service** dialog box, and select **Microsoft TCP/IP Printing**.

Click the button.

4

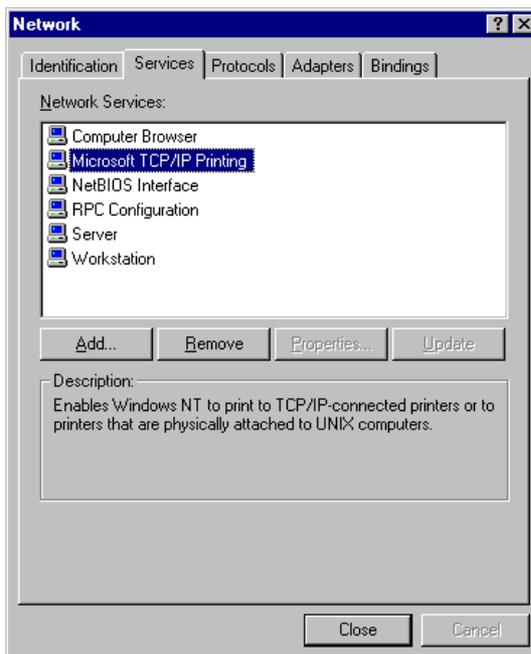


The **Windows NT Setup** dialog box appears.

Insert the Windows NT 4.0 CD-ROM, and type **D:\i386** (where "D:" is your CD-ROM drive).

Click the button.

5

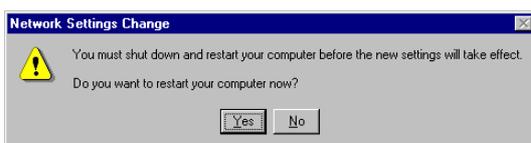


After the files have been copied into the Hard Drive of your PC, the display returns to the Network dialog box. Confirm that the Microsoft TCP/IP Printing service has been added to the Network Services list.

Click the button.

Note: *If the OK button does not change into a Close button, Remove and reinstall the Microsoft TCP/IP Printing service.*

6



The **Network Settings Change** dialog box is displayed, click the button to restart your computer now.

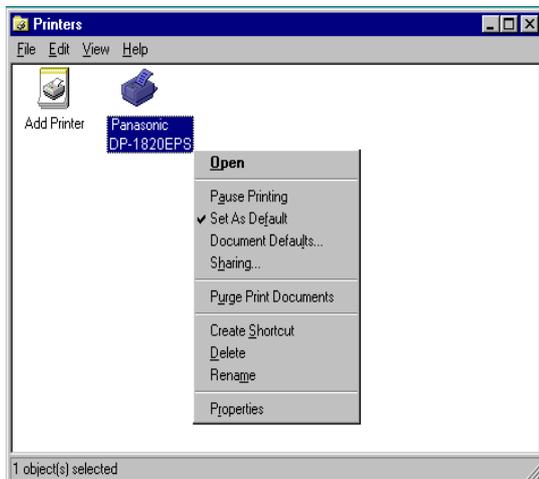
You have now completed the LPR Service installation.

Continued on the next page...

Installing the LPR (Line Printer Remote) Monitor

Windows NT 4.0

7

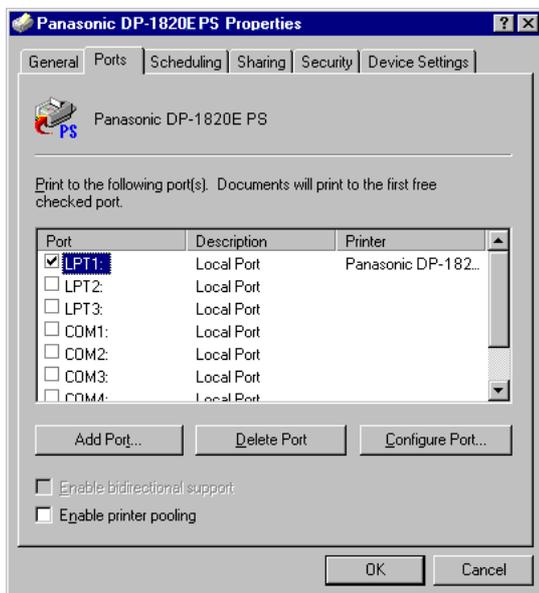


After your computer has rebooted, log on with an account with Administrator Priviledges, click the **Start** button, select **Settings**, and then click **Printers**.

The **Printers** folder appears.

Right-click on the desired printer icon and select **Properties** from the pop-up menu.

8

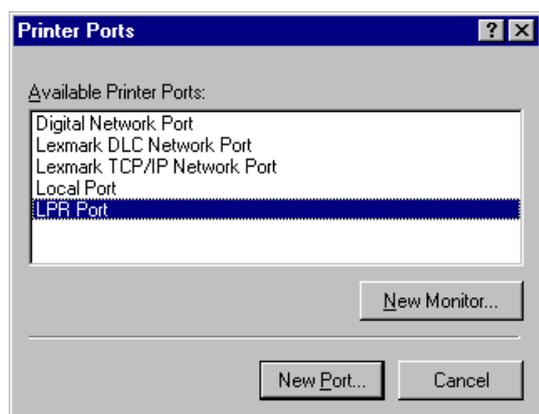


The following step registers the LPR Port for network printing.

Before proceeding, ensure that the printer is installed, connected to the network, turned ON and is operating properly.

Select the **Ports** Tab and click the  button.

9



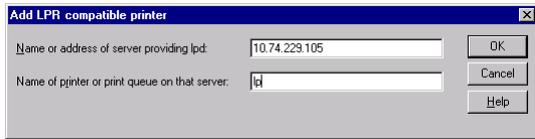
The **Printer Ports** dialog box appears.

Select **LPR Port** and click the  button.

Installing the LPR (Line Printer Remote) Monitor

Windows NT 4.0

10



The **Add LPR compatible printer** dialog box appears.

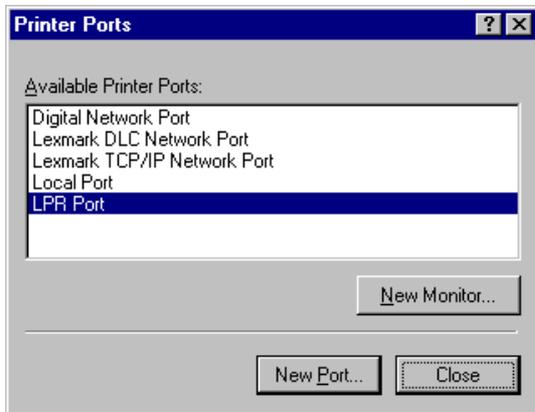
Enter the IP Address of the printer in the upper text field, and "lp" for the print queue name in the lower text field.

Click the button.

(Please wait while the wizard verifies the IP Address and connectivity to the network.)

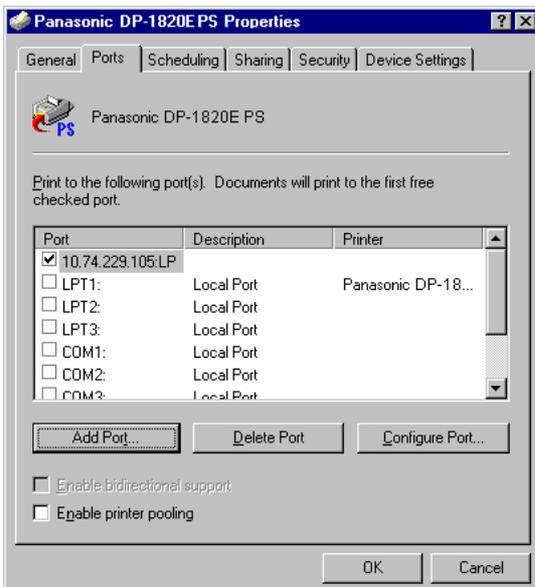
The **Printer Ports** dialog box appears.

11



Click the button.

12



Select the printer port and click the button.

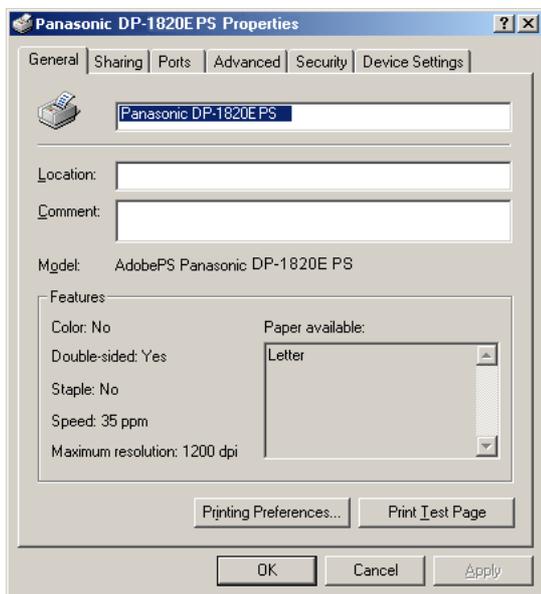
The printer properties dialog box closes and you have now configured the printer as a network printer.

Installing the LPR (Line Printer Remote) Monitor

Windows 2000/Windows XP/Windows Server 2003

Logon using an account with administrator rights.

1

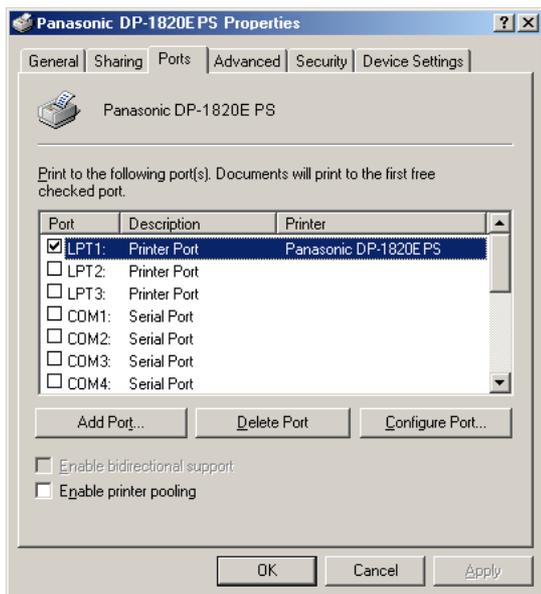


Open the **Printers** (Windows XP/Windows Server 2003: **Printers and Faxes**) folder.

Right-click on the desired printer icon and select **Properties** from the pop-up menu.

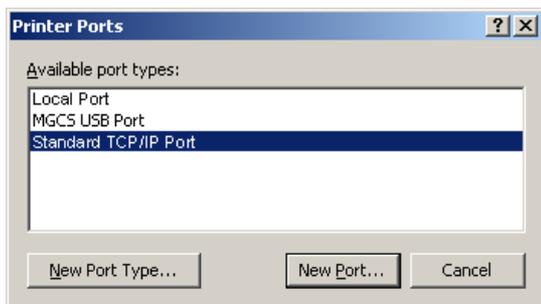
The printer properties dialog box appears.

2



Select the **Ports** Tab and click the  button.

3



Select **Standard TCP/IP Port** and click the  button.

Installing the LPR (Line Printer Remote) Monitor

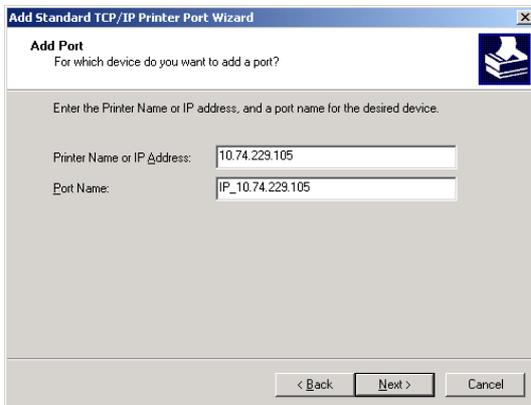
Windows 2000/Windows XP/Windows Server 2003

4



Click the  button.

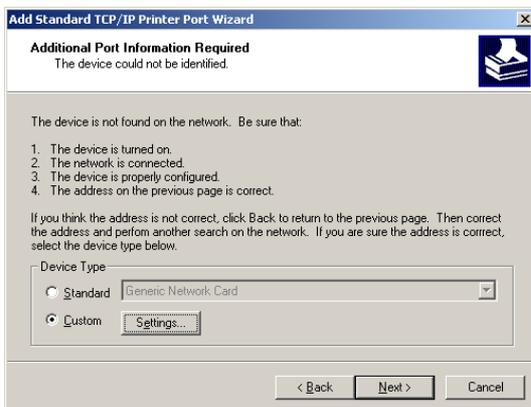
5



Enter the IP Address and the Port Name and click the  button.

Note: *The Port Name is automatically entered together with the IP Address. You may need to change it as required.*

6



<DP-180/190/1520P/1820P/1820E>

Select **Custom** and click the  button.

or

<DP-2330/3030/3530/4530/6030>

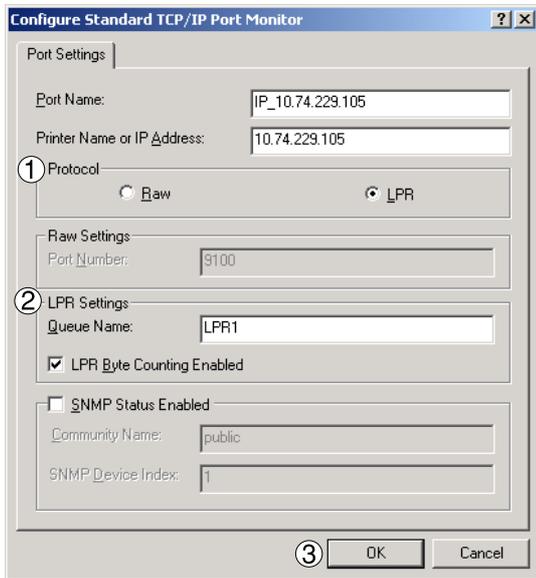
Select **Standard** and click the  button.

Then, go to step 9.

Installing the LPR (Line Printer Remote) Monitor

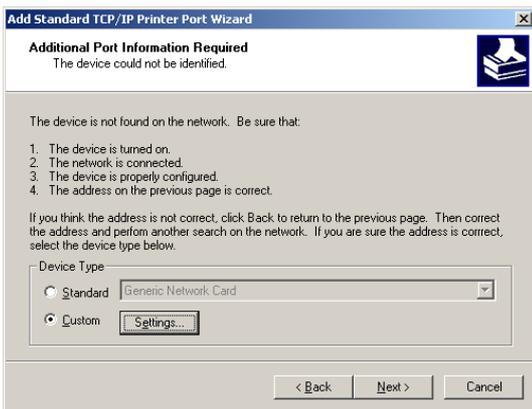
Windows 2000/Windows XP/Windows Server 2003

7



1. In the Protocol section, select **LPR**.
2. In the LPR Settings section, enter the **Queue Name** (e.g. LPR1) and select the **LPR Byte Counting Enabled**.
3. Click the **OK** button.

8



Click the **Next** button.

9

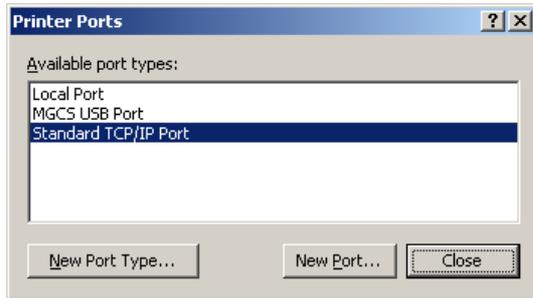


Click the **Finish** button.

Installing the LPR (Line Printer Remote) Monitor

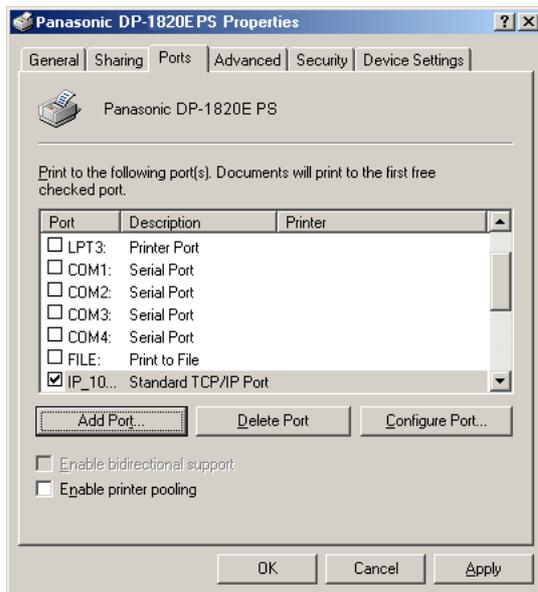
Windows 2000/Windows XP/Windows Server 2003

10



Click the **Close** button.

11



Click the **Apply** button.

Click the **OK** button.

The printer properties dialog box closes and you have now configured the printer as a network printer.

Installing the PS Driver Security Utility

Windows

If you wish to use the Mailbox and Secure Mailbox functions, it is essential that you setup the Utility settings first.

To control the Charge Management with the Accounting Management application, it is essential that you setup the Utility settings first.

1

Exit from all applications, then insert the Panasonic Printing System CD into the CD-ROM drive.

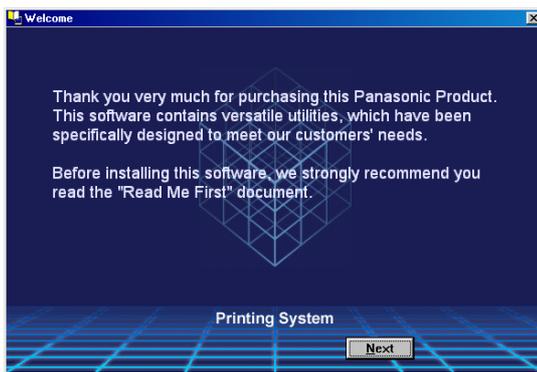
2



Select the desired language.

Note: 1. If the CD-ROM does not launch automatically, double click the **My Computer** icon on the Desktop or on the **Start** menu, then double click the CD-ROM icon.
2. The language screen differ depending on the models.

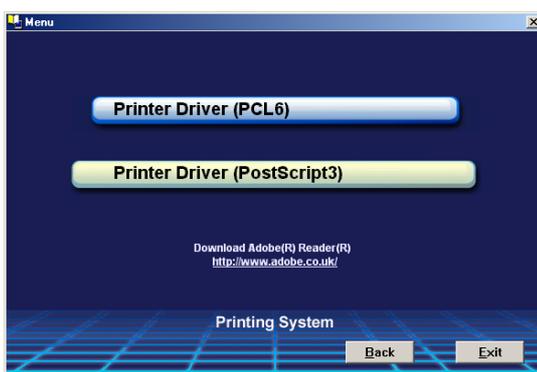
3



The setup message will display.

Click the button.

4



Click **Printer Driver (PostScript3)**.

Installing the PS Driver Security Utility

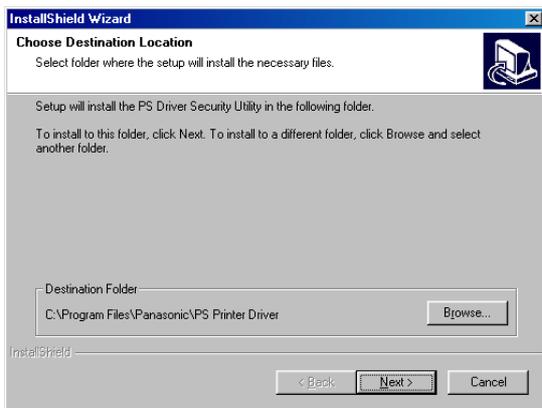
Windows

5



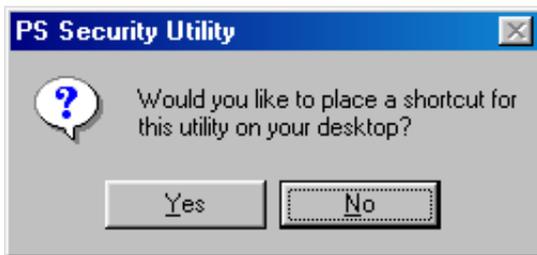
Select **Install PS Driver Security Utility**.

6



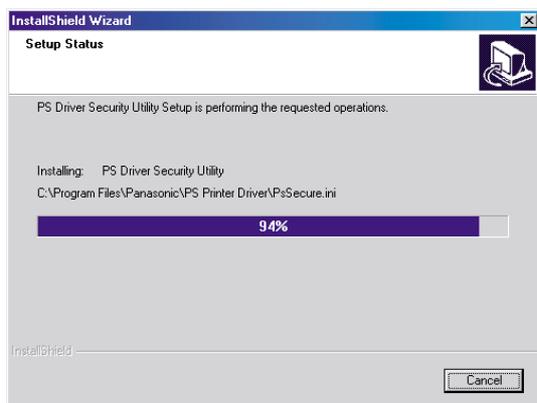
Click the button.

7



Click the button if you want to place a shortcut to PS Security Utility on your desktop.

8



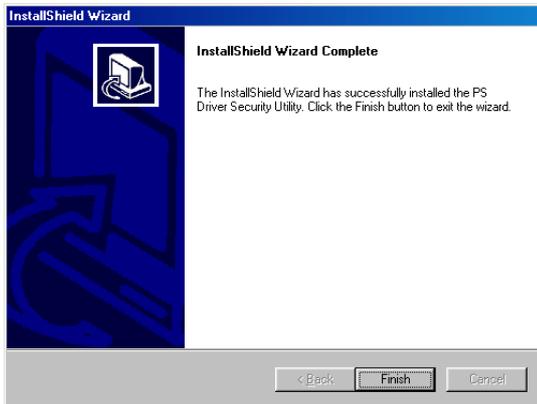
The required files are copied.

Continued on the next page...

Installing the PS Driver Security Utility

Windows

9



Click the button.

The PS Driver Security Utility folder has been added to the Program menu, and the installation has now completed.

Installing the PS Driver Security Utility

Mac OS

In order to utilize Department Codes, Mailboxes or Secure Mailboxes, the appropriate information must be input prior to installing the printer driver.

If you are using Mac OS X, use the PS Driver Security Utility to change the setting before adding the printer. If you have already added the printer, delete it, change the setting using the PS Driver Security Utility, then add the printer.

1



Exit from all applications, then insert the Panasonic Printing System CD into the CD-ROM drive. Double-click the CD icon on the desktop.

For OS 8.6/9.x: Browse to folder **English > PS > Setup > Mac > Tool**

For OS X : Browse to folder **English > PS > Setup > Mac > Tool > OSX_only**

Copy **PsSecure.sit** to your hard disk.

Note: *If PsSecure.sit does not automatically decompress, install a suitable decompression utility.*

2



Please decompress PsSecure.sit with decompression tool. Double-click the **PS Driver Security Utility** icon to start.

Note: *Installation instructions*
A ".hqx" ".sit" ".sea" file on a Macintosh, use *Stuffit Deluxe* or *Stuffit Expander* by Aladdin Systems (<http://www.aladdinsys.com/>) to access the file's contents. *Stuffit Expander* is available as a freeware product.

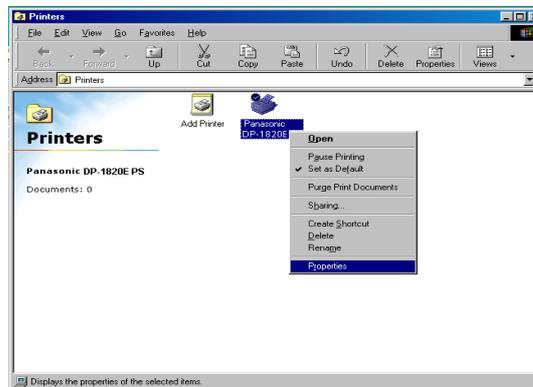
Configuring the Printer Driver Settings

Windows 98/Windows Me

To change the printer settings, open the printer properties by performing the following steps.

- 1** Click the **Start** button, select **Settings**, and then click **Printers**.
- 2** Right-click the desired printer icon in the **Printers** folder, and select **Properties** in the popup menu.

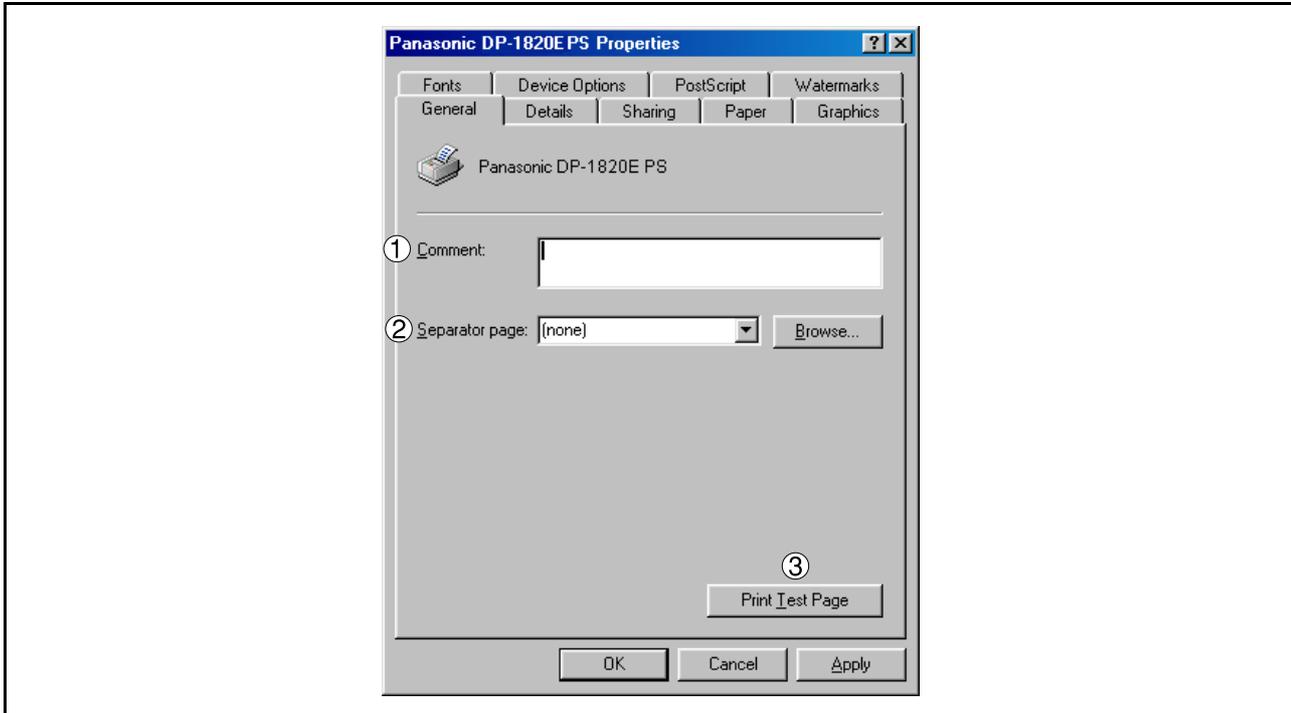
The printer properties dialog box appears.



Configuring the Printer Driver Settings

Windows 98/Windows Me

General Tab



1. **Comment**

Enter comments regarding the properties, if any.

If another user sets up this printer on his or her computer when sharing the printer, the comment specified here will also appear on that computer. However, the comment displayed for an existing user will remain unchanged even if the comment is modified later.

2. **Separator page**

This feature is not available on these machines.

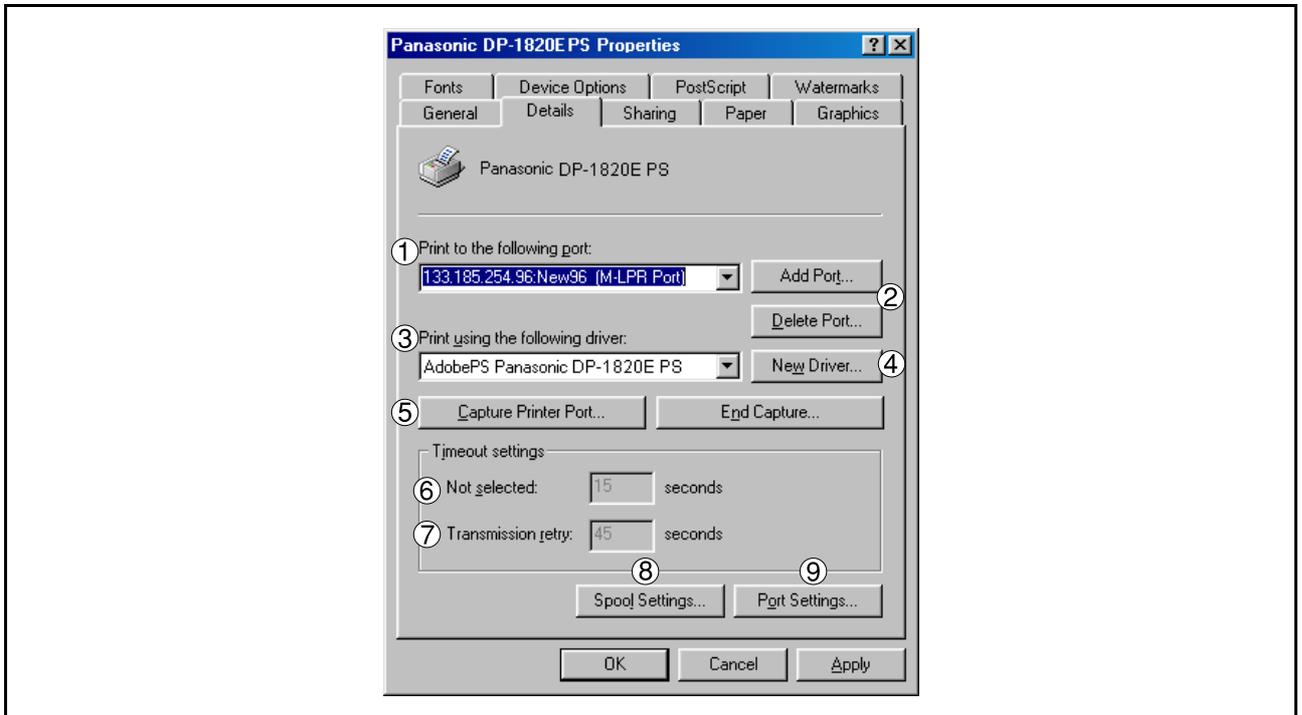
3. **Print Test Page** button

Prints a test page. This allows the user to verify if the printer is installed properly.

Configuring the Printer Driver Settings

Windows 98/Windows Me

Details Tab



1. Print to the following port

Displays either the port where the printer is connected or the path to the network printer.

To change the printing destination, either select the printing destination port from the list or enter the network path here.

2. Add Port... / Delete Port... button

Adds/deletes new port or new network path.

3. Print using the following driver

Displays the type of the printer driver. Specify the printer being used or a printer model which can be emulated with the printer being used.

4. New Driver... button

Updates or modifies the printer driver.

5. Capture Printer Port... / End Capture... button

Assigns a local port to the network connected printer or cancels a local port assigned to the network printer.

6. Timeout settings - Not selected (For LPT Port only)

Specify the amount of time (in seconds) allowed to elapse before the printer comes online. If the printer is not online within this duration, an error message will be displayed.

Configuring the Printer Driver Settings

Windows 98/Windows Me

7. Timeout settings - Transmission retry (For LPT Port only)

Specify the amount of time (in seconds) allowed to elapse before the printer is ready for printing. If the printer is not ready for printing within this duration, an error message will be displayed.

Increase this value if a timeout error occurs when printing a large document.

8. button

Specify the method of sending (spool) documents from the program to the printer.

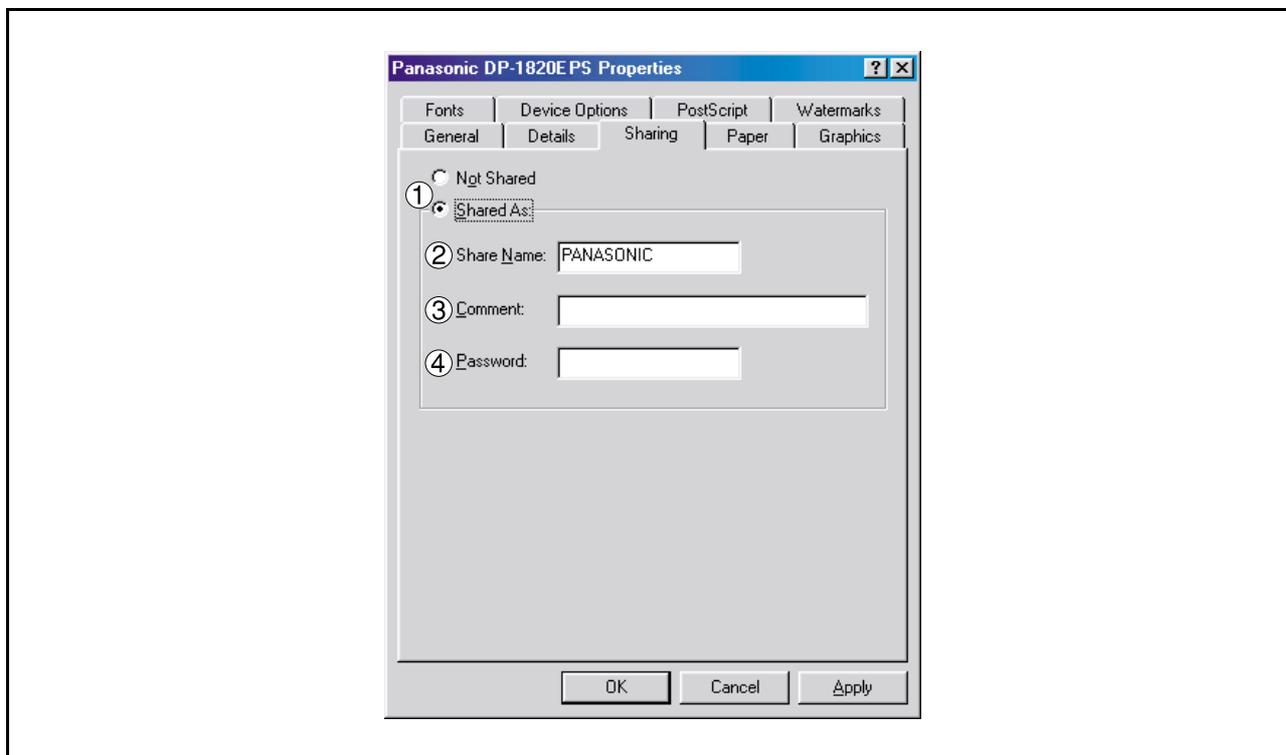
9. button

Modifies printer port settings.

Configuring the Printer Driver Settings

Windows 98/Windows Me

Sharing Tab



1. Not Shared/Shared As

Select whether to display or share this printer with other computers.

2. Share Name

Specify the name of the shared printer. The displayed name can be used as it is or a new name may be entered. The name specified here will be displayed when other users view information about the printer on the network.

3. Comment

You can enter comments regarding a shared printer (such as the type of printer and the location where it is installed). When other users view information about the printer on the network, the comment specified here will be displayed.

4. Password

Specify a password required when other users will connect to this printer. Leave the box blank in order not to use any password.

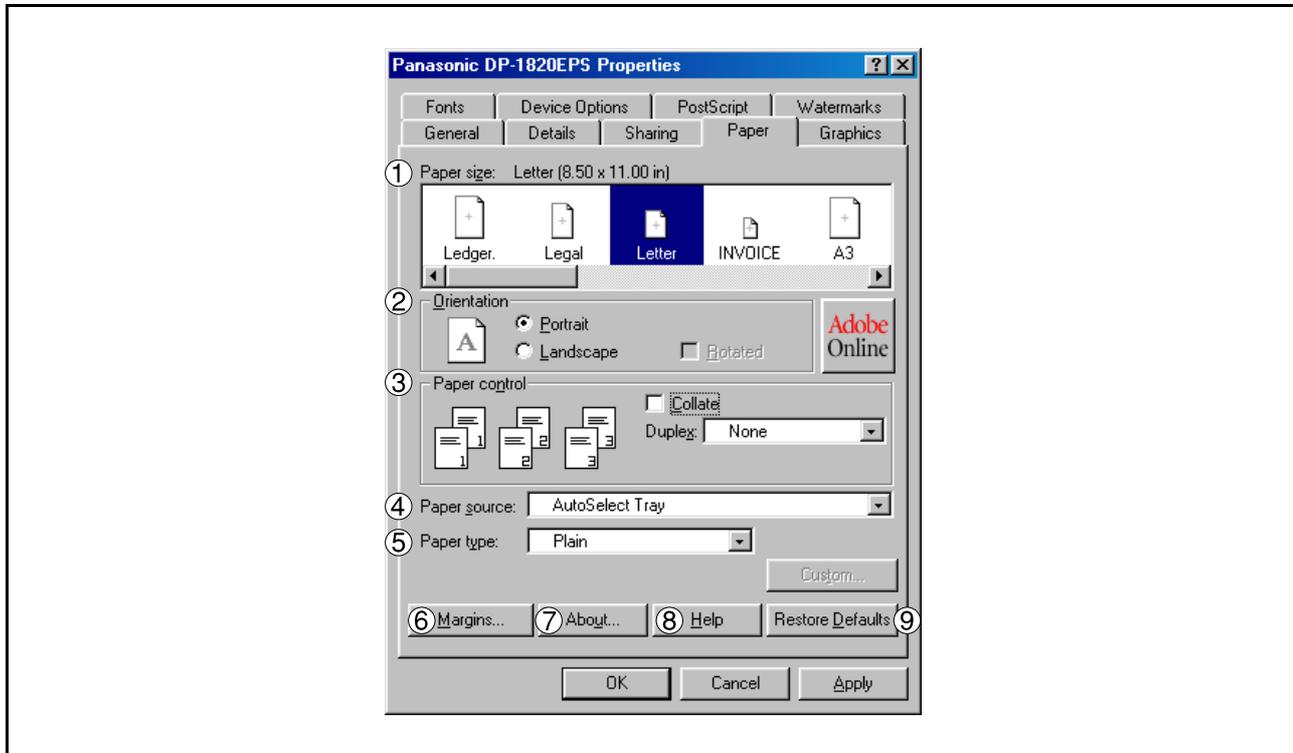
NOTE

1. **Sharing** Tab in property dialog box is not displayed unless printer sharing has been specified.

Configuring the Printer Driver Settings

Windows 98/Windows Me

Paper Tab



- 1. Paper size**
Select a document size.
- 2. Orientation**
Select the print orientation (Portrait/Landscape).
- 3. Paper control**
Controls printer outputs and groups pages.
Select **Collate** if you wish each set of multiple copies collated when you print them. Otherwise, each page is printed in individual groups.
The **Duplex** menu specifies whether and how the printer should print the document on both sides of the paper.
- 4. Paper source**
Specify where the paper you want to use is located in the device. If you choose **Auto Select Tray**, the printer driver will automatically select an appropriate tray according to the Paper Size selected.
Note:
 - If no paper size match is found, the printer drive will select the Tray 1. (DP-180/190)
 - If no paper size match is found, the printer drive will select the Bypass Tray. (DP-1520P/1820P/1820E)
- 5. Paper type**
Specifies the type of paper medium to use, such as plain or thick.
Note: If selecting other than **Plain Paper** for the Paper type, the printer driver will select the **Bypass Tray** if **Auto Select Tray** was selected as the **Paper source**.
- 6. Margins... button**
Displays the Margins dialog box. Click this button to view the area of the page that is unavailable for printing.

Continued on the next page...

Configuring the Printer Driver Settings

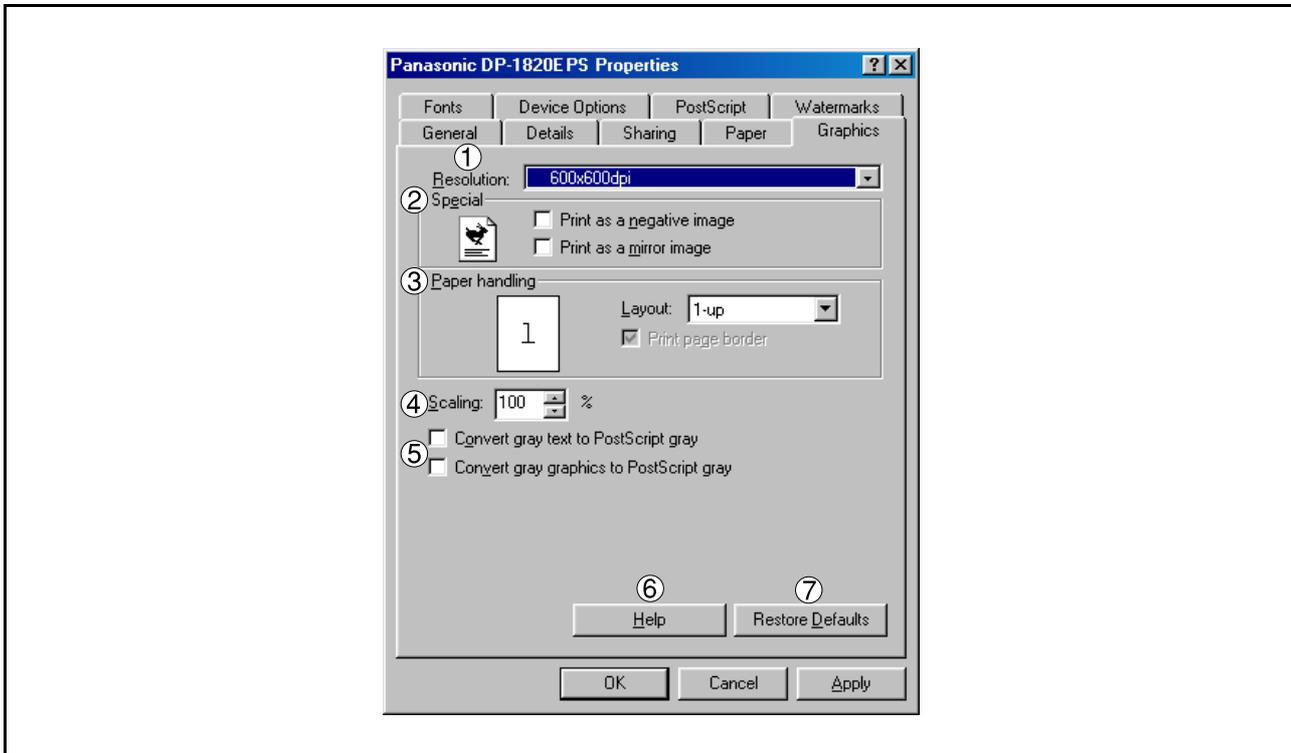
Windows 98/Windows Me

7. **button**
Displays version and copyright information for this printer driver.
8. **button**
Displays the help window for this printer driver.
9. **button**
Sets the values of all options in the current dialog box to the default values specified in the PPD file.

Configuring the Printer Driver Settings

Windows 98/Windows Me

Graphics Tab

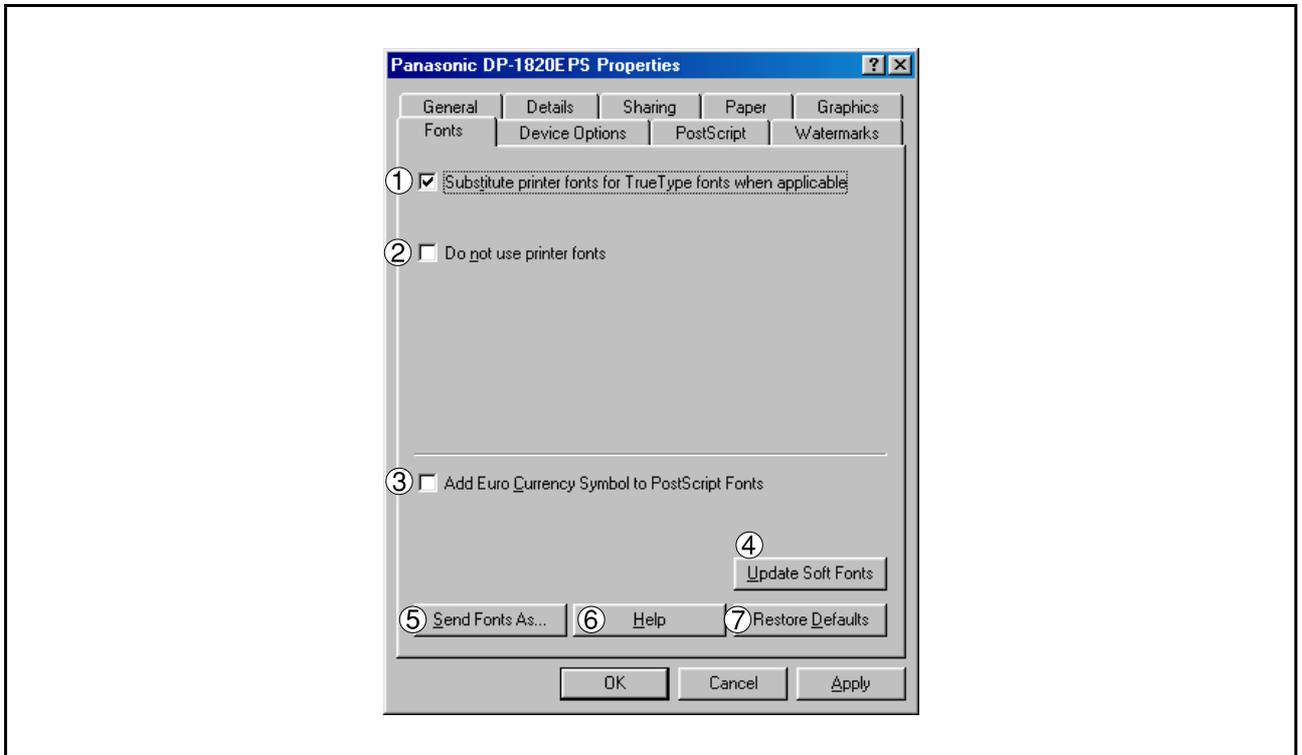


- 1. Resolution**
Select the resolution you want for printing (300/600/1200dpi Enhanced).
- 2. Special**
Prints a negative image and/or mirror image of your document. Click these options to view an example.
- 3. Paper handling**
Specify the layout pattern for printing multiple documents on a single sheet of paper and whether page borders are used. Select these options to view an example.
- 4. Scaling (25-400%)**
Specify an enlargement or reduction percentage when printing documents. If enlargement/reduction can be set within the application, indicate 100% here and specify the enlargement/reduction percentage in the Print dialog box of the application.
- 5. Convert gray text/graphics to PostScript gray**
This feature is not available on these machines.
- 6.  button**
Displays the help window for this printer driver.
- 7.  button**
Sets the values of all options in the current dialog box to the default values specified in the PPD file.

Configuring the Printer Driver Settings

Windows 98/Windows Me

Fonts Tab



1. Substitute printer fonts for TrueType fonts when applicable

Tells the driver to determine which PostScript fonts to substitute for TrueType fonts. Instead of sending all TrueType fonts to your printer, this option substitutes a PostScript printer font for the common TrueType fonts used in your document.

By default, common TrueType fonts are substituted with their PostScript look-alikes when printing, but those with no PostScript look-alike font are sent to the printer in the format specified in the Send TrueType Fonts As box of the Send Fonts As dialog box.

2. Do not use printer fonts

Disables using printer-resident fonts. Use this advanced option when you expect to send the PostScript output to different printer models.

3. Add Euro Currency Symbol to PostScript Fonts

Adds the European currency symbol to most PostScript fonts.

4. Update Soft Fonts button

Updates the list of PostScript fonts that have been downloaded to the printer so that the driver prints them correctly.

5. Send Fonts As... button

Displays the Send Fonts As dialog box. Click this button to specify how to send TrueType or PostScript fonts.

6. Help button

Displays the help window for this printer driver.

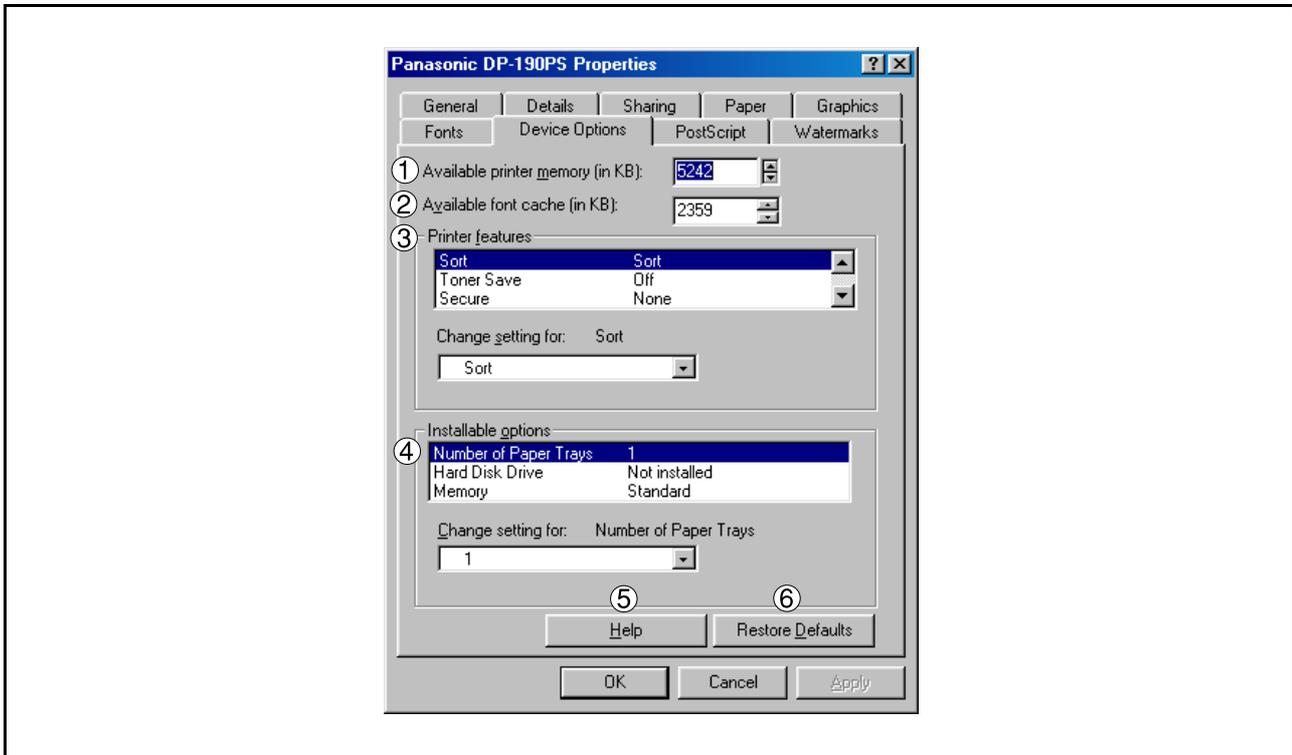
7. Restore Defaults button

Sets the values of all options in the current dialog box to the default values specified in the PPD file.

Configuring the Printer Driver Settings

Windows 98/Windows Me

Device Options Tab (DP-180/190/1520P/1820P/1820E)



1. Available printer memory

Specifies the amount of available printer memory. The driver uses this information when performing printing tasks, such as sending fonts from the computer to the printer.

2. Available font cache

Displays the amount of font cache memory now available to Type 32 fonts (bitmap font format). The Driver automatically adjusts the font cache size according to the installed memory option selected in the Installable options box.

3. Printer features

Specifies the following printer settings:

• Sort

Select whether to Stack or Sort when printing multiple copies.

Note: Paper must be loaded into the machine in both directions when using the Rotate Stack and Rotate Sort functions (i.e. Letter and Letter-R, A4 and A4-R).

Non Sort



Sort



Rotate Stack (For DP-1520P/1820P/1820E only)



Rotate Sort (For DP-1520P/1820P/1820E only)

Configuring the Printer Driver Settings

Windows 98/Windows Me

- **Toner Save (For DP-180/190 only)**

This setting saves toner by reducing its consumption, and it is cost-effective when printing many draft copies prior to the final document.

- **Secure**

Select Mailbox or Secure Mailbox if storing the print data into the mailbox of the machine. Available if the optional Hard Disk Drive Unit (DA-HD18/HD19/HD30/HD60) is installed.

Note: 1. The PS Driver Security Utility must be installed in order to use the User ID Password.

2. DA-HD18: For DP1520P/1820P/1820E; DA-HD19: For DP-180/190;

DA-HD30: For DP-2330/3030; DA-HD60: For DP-3530/4530/6030.

- **Print Blank Pages**

Select whether the blank pages are printed or not.

- **Tray Switching (Except for Windows 98, Windows Me)**

For uninterrupted printing, this setting allows automatic tray switching to another tray with same paper size, when the paper runs out of selected tray.

- **Front Cover Page**

Select to insert a blank page as a Front Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

- **Back Cover Page**

Select to insert a blank page as a Back Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

4. Installable options

Specifies the following printer settings:

- **Number of Paper Trays**

Select the number of available paper trays if optional Paper Feed Module(s) are installed.

- **Hard Disk Drive**

Select if the HDD Unit is installed.

- **Memory**

Select the memory (Standard or additional).

Only available if the optional HDD unit (DA-HD18/HD19/HD30/HD60) is installed.

Note: DA-HD18: For DP1520P/1820P/1820E; DA-HD19: For DP-180/190;

DA-HD30: For DP-2330/3030; DA-HD60: For DP-3530/4530/6030.

5. button

Displays the help window for this printer driver.

6. button

Sets the values of all options in the current dialog box to the default values specified by the PPD file.

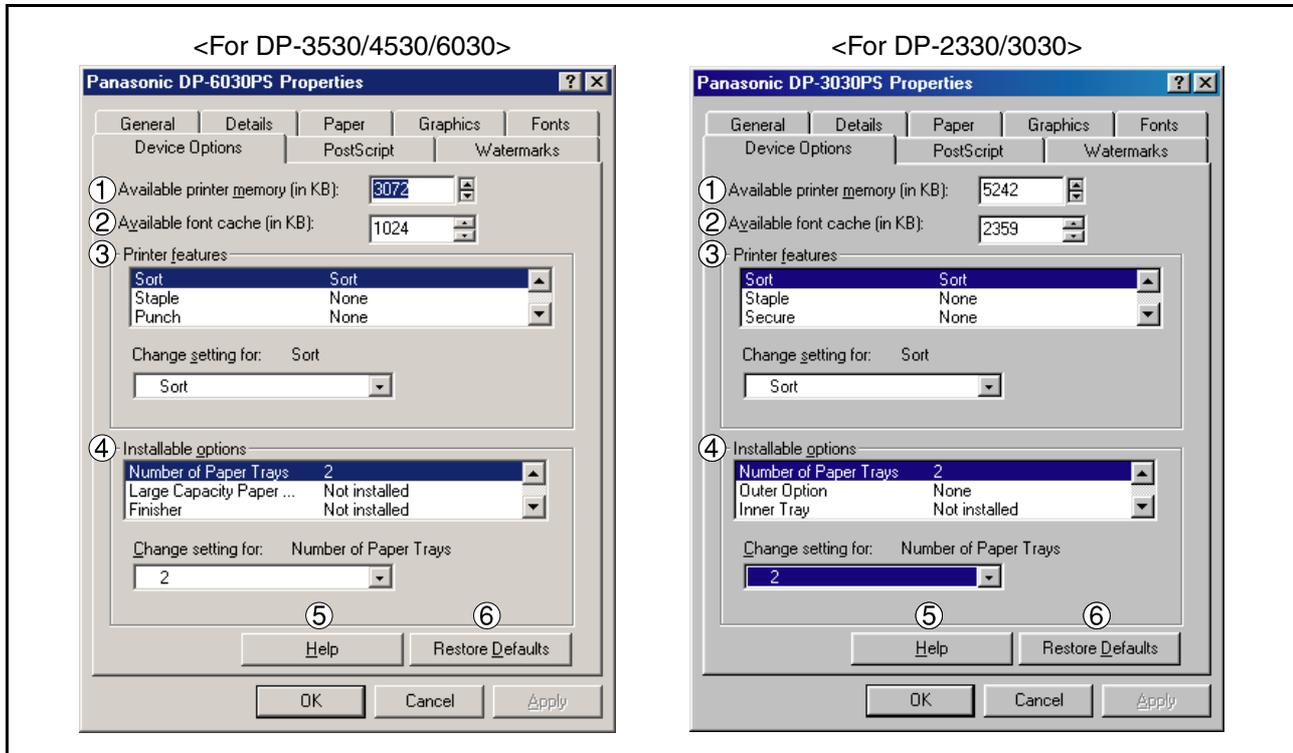
NOTE

1. *Device Option Tab specifies device-specific settings and settings of optional devices. Make sure that the **Device Option Tab** is set properly before printing a document, or printing problems may occur.*

Configuring the Printer Driver Settings

Windows 98/Windows Me

Device Options Tab (DP-2330/3030/3530/4530/6030)



1. Available printer memory

Specifies the amount of available printer memory. The driver uses this information when performing printing tasks, such as sending fonts from the computer to the printer.

2. Available font cache

Displays the amount of font cache memory now available to Type 32 fonts (bitmap font format). The Driver automatically adjusts the font cache size according to the installed memory option selected in the Installable options box.

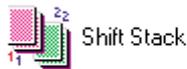
3. Printer features

Specifies the following printer settings:

• Sort

Select whether to Stack or Sort when printing multiple copies.

Non Sort

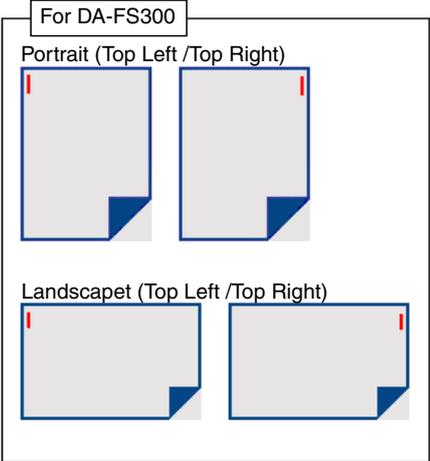
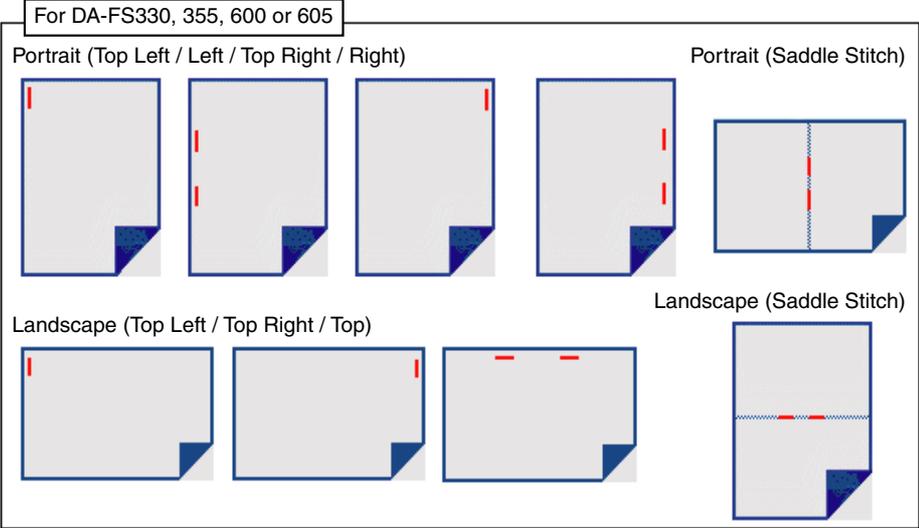


Configuring the Printer Driver Settings

Windows 98/Windows Me

- **Staple**

Select the staple position. Available if the optional Finisher (DA-FS300, FS330, FS355, FS600 or FS605) is installed. Available for up to 30 sheets (Letter/A4).

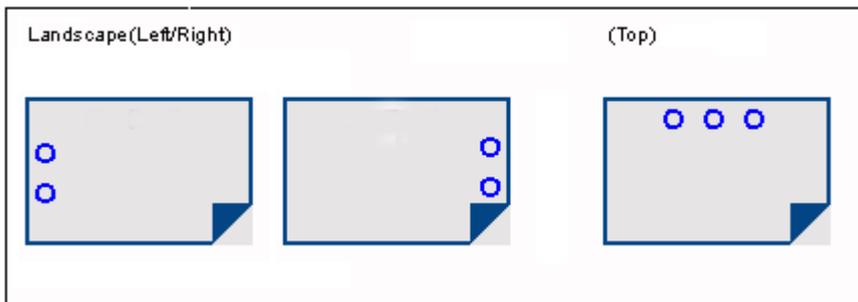
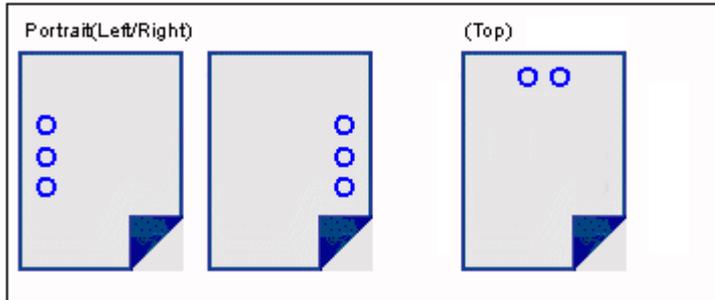


Configuring the Printer Driver Settings

Windows 98/Windows Me

- **Punch (For DP-3530/4530/6030 only)**

Select the punch position. Available if the optional Punch Unit is installed.



- **Secure**

Select the Mailbox or Secure Mailbox if storing the print data into the mailbox of the machine. Available if the optional Hard Disk Drive Unit (DA-HD30/HD60) is installed.

Note: The PS Driver Security Utility must be installed in order to use the user ID password.

- **Print Blank Pages**

Select whether the blank pages are printed or not.

- **Tray Switching (Except for Windows 98, Windows Me)**

Allow the paper to be fed continuously if the same size of paper is loaded in another paper tray (Auto Tray Switching). If not selected, the machine will stop if paper runs out in the chosen paper tray.

- **Front Cover Page**

Set to insert a blank page as the Front Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

- **Back Cover Page**

Set to insert a blank page as the Back Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

- **Duplex Notice (For DP-2330/3030 only)**

Check whether "2-Sided Print" is printed on the footer of 1st page when printing with 2-Sided Page Style.

Configuring the Printer Driver Settings

Windows 98/Windows Me

4. Installable options

Specifies the following printer settings:

- **Number of Paper Trays**

Select the number of available paper trays if optional Paper Feed Module(s) are installed.

- **Large Capacity Paper Tray (LCT) (For DP-3530/4530/6030 only)**

Select if a Large Capacity Paper Tray is installed.

- **Finisher (For DP-3530/4530/6030 only)**

Select the type of Finisher if a Finisher is installed.

- **Punch Unit (For DP-3530/4530/6030 only)**

Select if a Punch Unit is installed.

- **Outer Option (For DP-2330/3030 only)**

Select the type of Finisher if a Finisher is installed.

- **Inner Tray (For DP-2330/3030 only)**

Select "Installed" if the Inner Tray is installed.

- **Duplex Unit (For DP-2330/3030 only)**

Select "Installed" if the Duplex Unit is installed.

- **Hard Disk Drive**

Select if the HDD Unit is installed.

5. button

Displays the help window for this printer driver.

6. button

Sets the values of all options in the current dialog box to the default values specified in the PPD file.

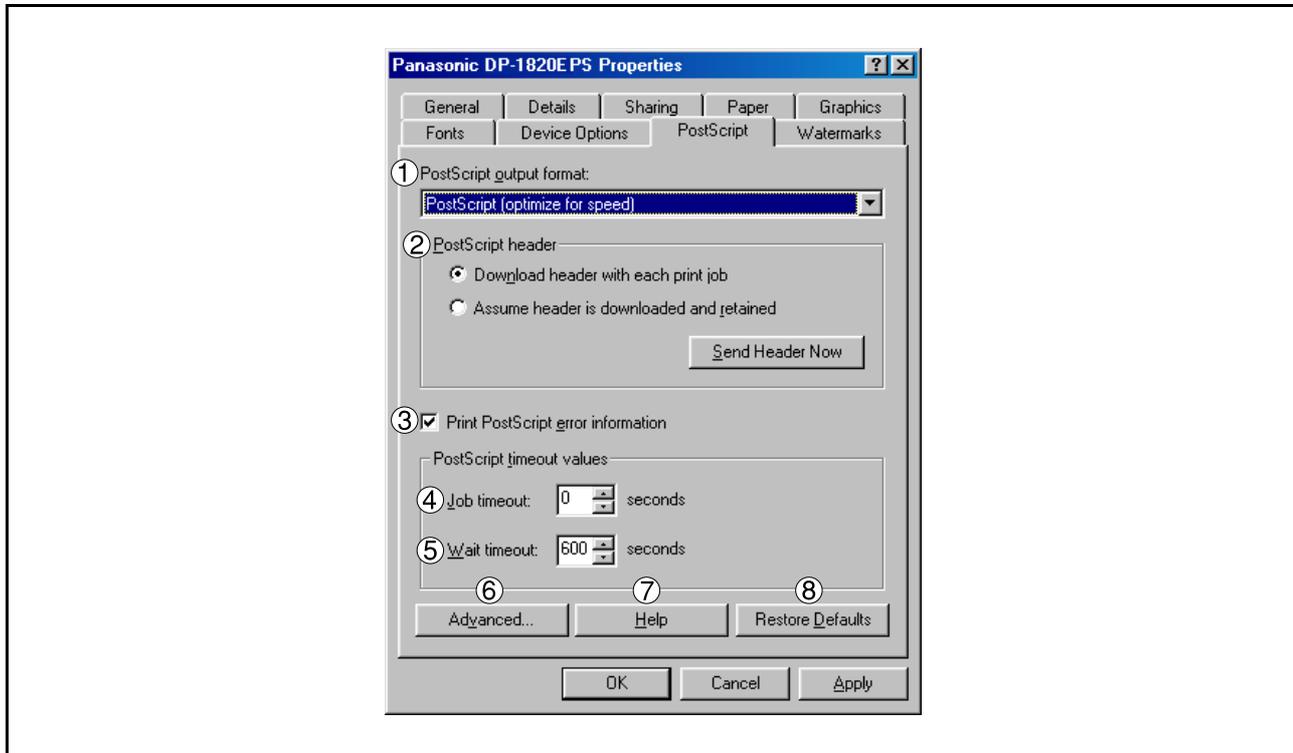
NOTE

1 Device Option Tab specifies device-specific settings and settings of optional devices.

Configuring the Printer Driver Settings

Windows 98/Windows Me

PostScript Tab

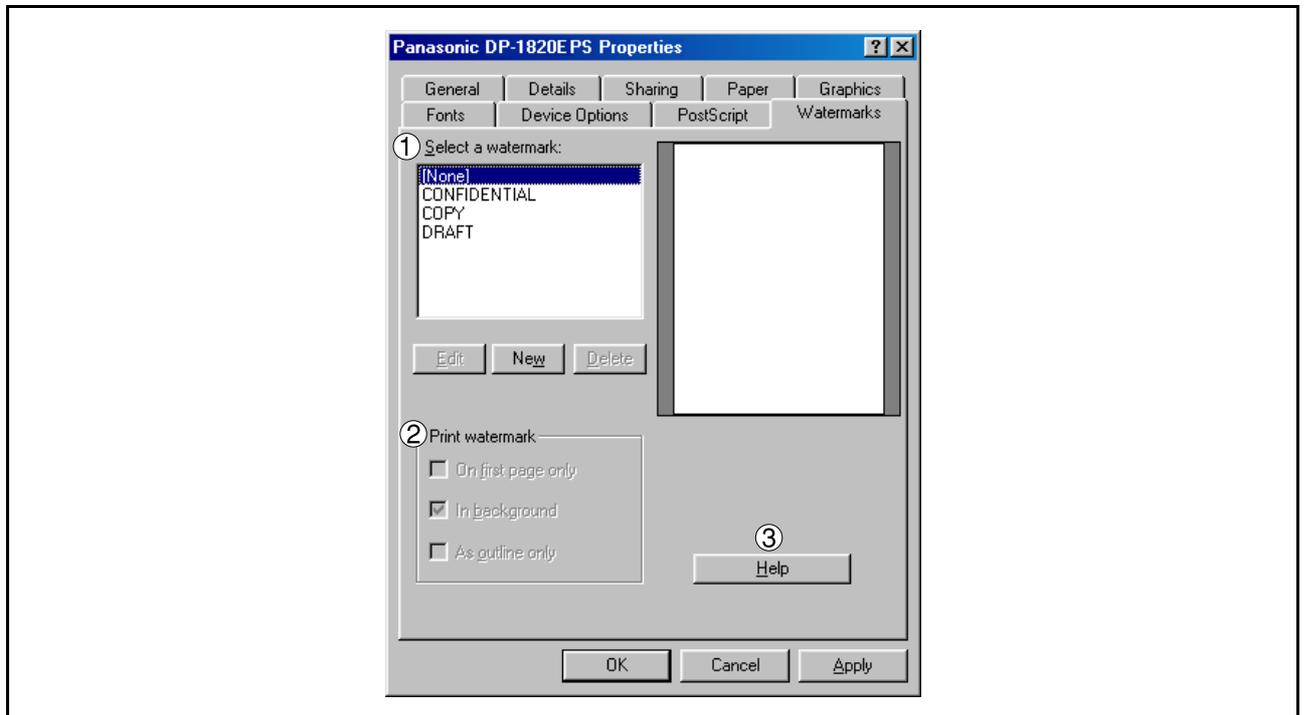


- 1. PostScript output format**
Specifies the format for the PostScript files. Generally, use PostScript (Optimize For Speed) for printing a document.
- 2. PostScript header**
Specifies whether to send header information to the printer each time you print a document; this is an advanced feature to be used only if you have experience working with headers.
- 3. Print PostScript error information**
Specifies whether to send a special PostScript error handler with every document that you print.
- 4. PostScript timeout value - Job timeout**
Specifies the maximum number of seconds that the print job can take to get from the computer to the printer before the job is canceled.
A value of zero means that the job is never canceled. If your printer is shared, do not specify a value of zero.
- 5. PostScript timeout value - Wait timeout**
Specifies the maximum number of seconds that the printer will wait for the computer to send data before canceling the job.
A value of zero means that the job is never canceled. If your printer is shared, do not specify a value of zero.
- 6. button**
Displays the Advanced PostScript Options dialog box. Click this button to view and change advanced PostScript settings. Only use this option if you are an advanced user with experience working with PostScript.
- 7. button**
Displays the help window for this printer driver.
- 8. button**
Sets the values of all options in the current dialog box to the default values specified in the PPD file.

Configuring the Printer Driver Settings

Windows 98/Windows Me

Watermarks Tab



1. Select a watermark

Lists and displays the available watermark definitions. Click an entry on the list to delete or edit it.

The **New** button displays the New Watermark dialog box, that allows you add a new watermark to the list.

2. Print watermark

Specifies the watermark form and style.

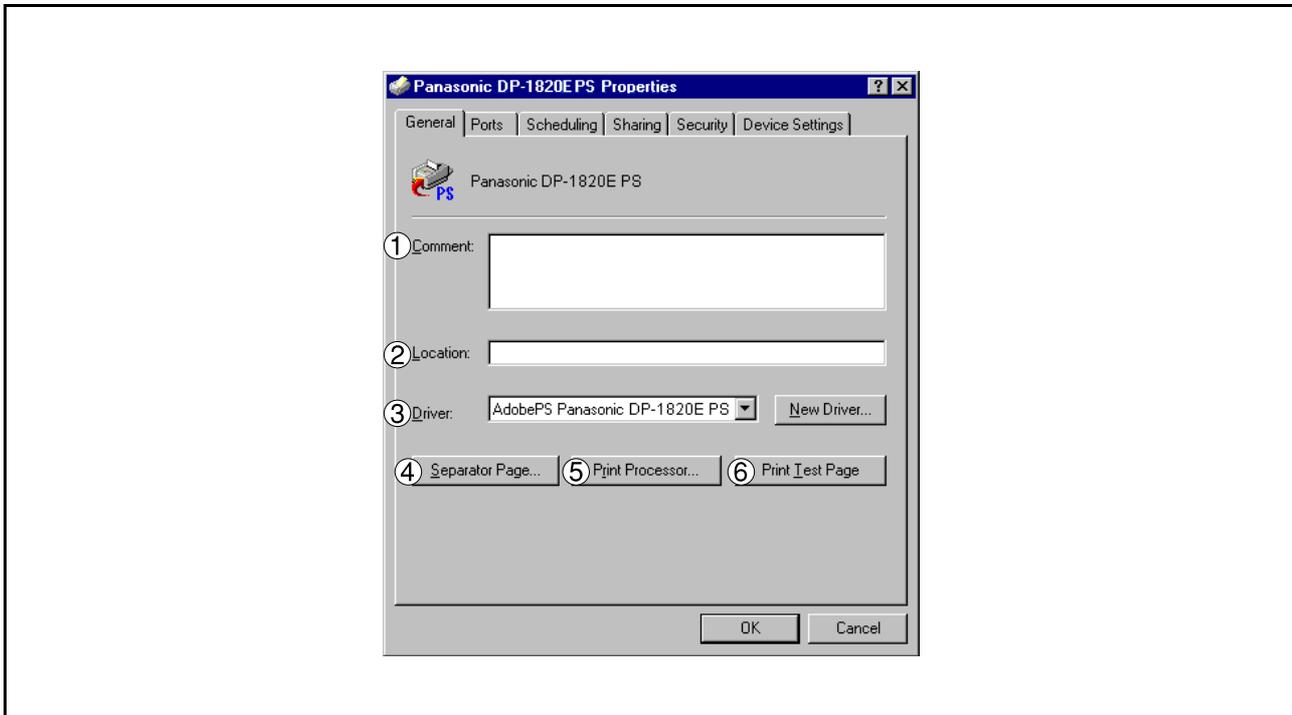
3. Help button

Displays the Help window for this printer driver.

Configuring the Printer Driver Settings

Windows NT 4.0 (Administrator)

General Tab



1. **Comment**

Enter comments regarding the properties, if any.

If another user sets up this printer on his or her computer when sharing the printer, the comment specified here will also appear on that computer. However, the comment displayed for an existing user will remain unchanged even if the comment is modified later.

2. **Location**

Specifies the printer location.

3. **Driver**

Displays the printer driver type. Specify the printer being used or a printer model that can be emulated with the printer being used.

Click button updates or modifies the printer driver.

4. **button**

This feature is not available on these machines.

5. **button**

Specify the processor to be used for printing (Print Processor) and the data type (Default Data type).

The processor and data type affect the manner in which the printer functions in Windows NT. Normally they do not need to be modified. However, modification might be necessary when the printer is used with a special application.

6. **button**

Prints a test page. This allows the user to verify if the printer is installed properly.

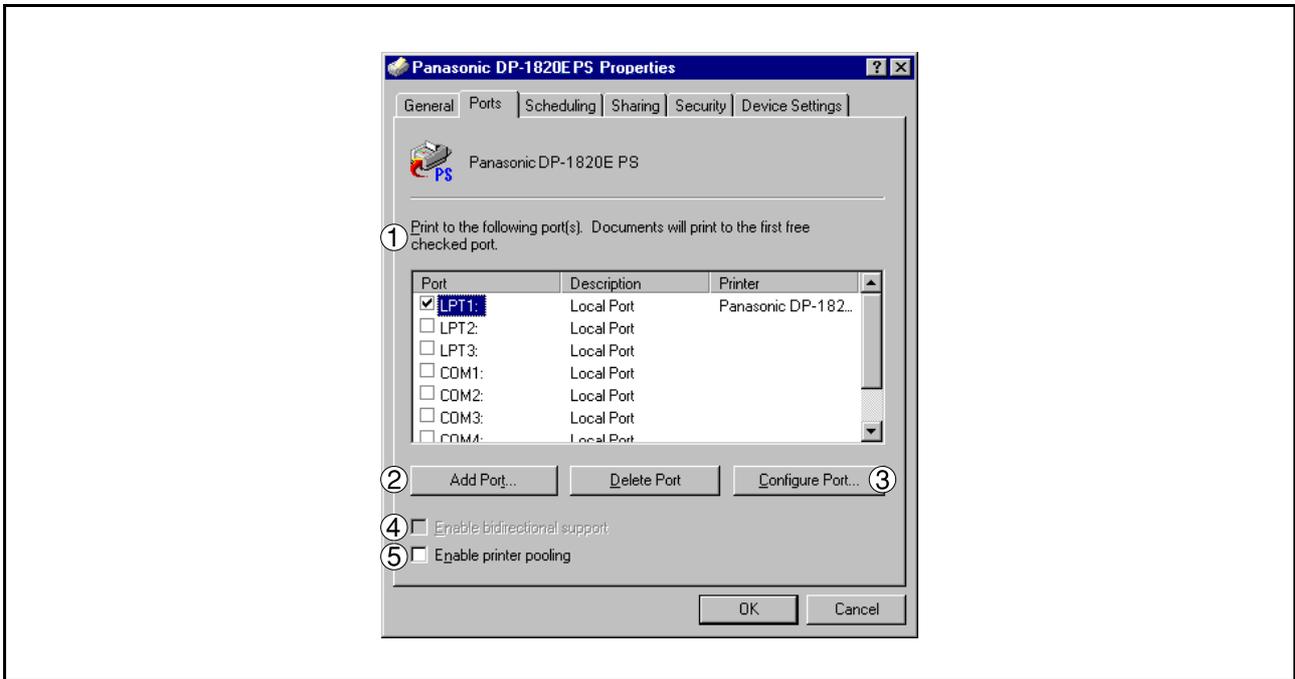
NOTE

1. In Windows NT 4.0, setting the properties depends on the logon account. This section describes properties to be specified by the administrator (system manager). See "Printing from Windows Application" for details on user properties. (See page 113)

Configuring the Printer Driver Settings

Windows NT 4.0 (Administrator)

Ports Tab



1. Print to the following port(s)

Displays a list of available ports for printing (Port), their status (Description) and printers that are connected to these ports (Printer).

2. Add Port... / Delete Port button

Adds/deletes a new port or a new network path.

3. Configure Port... button

Configures the selected port. In case of a parallel port, Transmission Retry should be specified.

4. Enable bidirectional support (The feature is not available with these models.)

On a printer, this setting enables reception of configuration data and status data from computer.

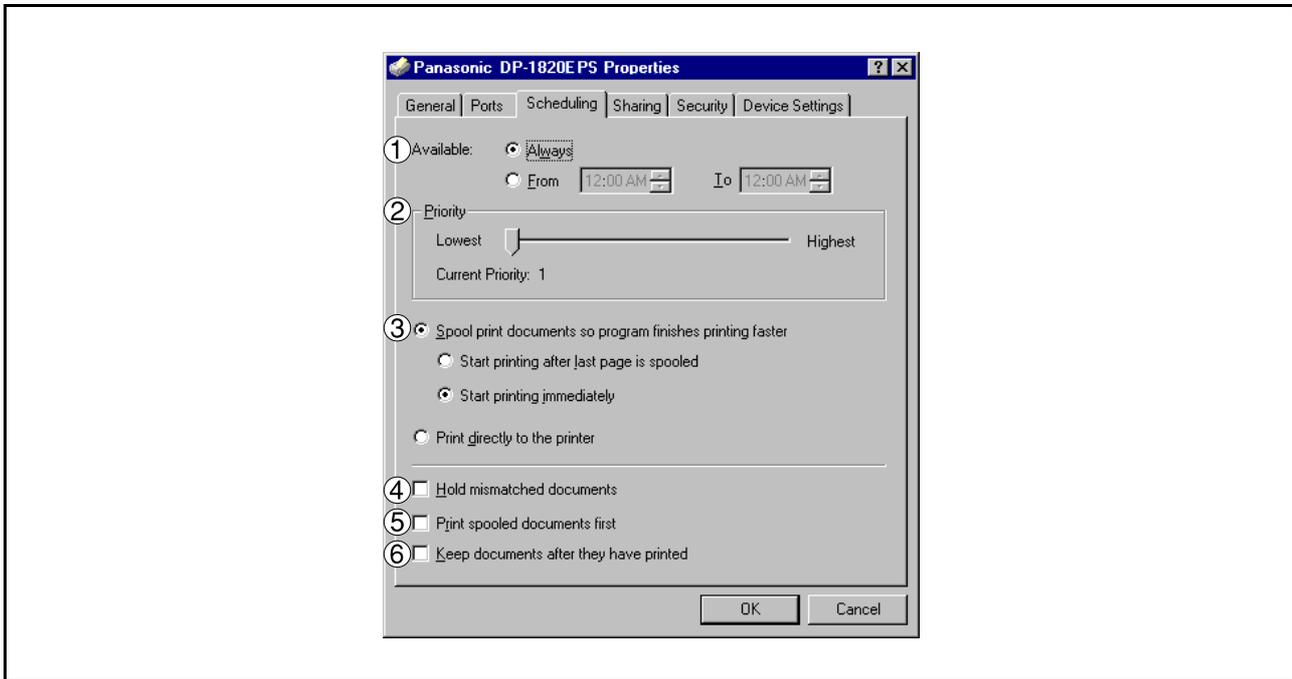
5. Enable printer pooling

Printer pooling allows outputting data from one logical printer to two or more printers. With printer pooling enabled, a transmitted printing job is output to the first printer that is ready for printing.

Configuring the Printer Driver Settings

Windows NT 4.0 (Administrator)

Scheduling Tab



1. Available

Schedules when the printer is available for operation. Specify operating hours when **From-To** is selected.

2. Priority

Sets printing priority. The slider allows the priority to be adjusted from 1 through 99.

3. Spool print documents... / Print directly to the printer

Specify how documents should be sent from an application to the printer.

4. Hold mismatched documents

The spooler compares document settings against printer settings and holds printing of a document if its settings (Paper Size, Orientation, and so on) do not match the printer settings.

5. Print spooled documents first

Always prints spooled documents first regardless of printing priority.

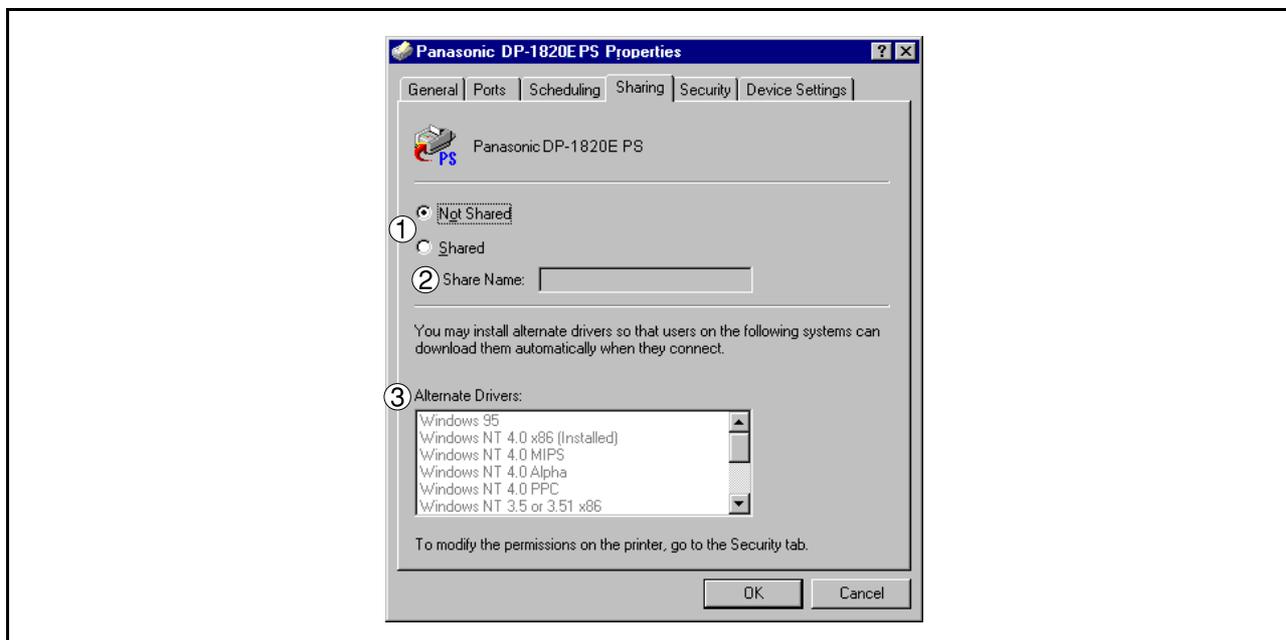
6. Keep documents after they have printed

Holds documents in the print queue even after they have been printed. These documents can be printed again directly from the queue regardless of the state the application is in.

Configuring the Printer Driver Settings

Windows NT 4.0 (Administrator)

Sharing Tab



1. Not Shared/Shared

Select whether to display or share this printer with other computers.

2. Share Name

Specify the name of the shared printer. The displayed name can be used as is or a new name may be entered. The name specified here will be displayed when other users view information about the printer on the network.

3. Alternate Drivers (The PS Printer Driver is not available in this menu.)

Allows other operating systems printer drivers to be loaded. When users of these operating systems connect to the printer, the printer driver is automatically loaded.

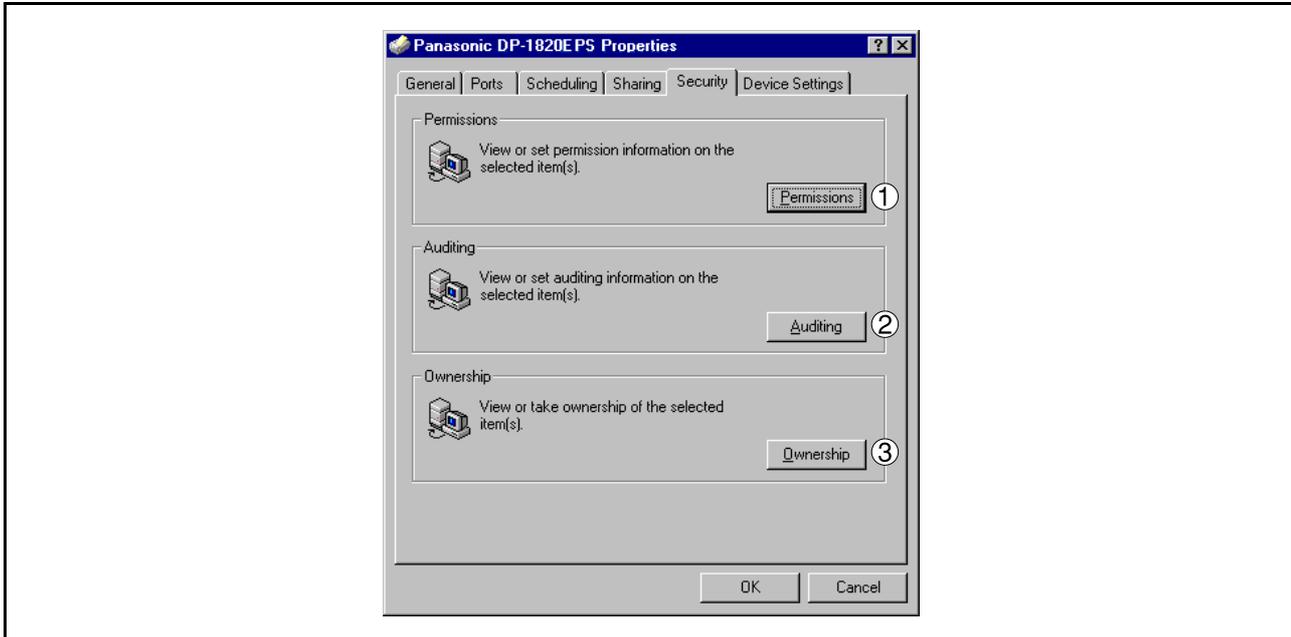
NOTE

1. When sharing a printer on the network, the print driver needs to be installed on the print server only; other computers will automatically copy and use that driver. For this reason, the print server must be ready with printer drivers for all the operating systems of all the computers that will be sharing the printer.

Configuring the Printer Driver Settings

Windows NT 4.0 (Administrator)

Security Tab



1. **Permissions button**
Set printer access privileges.
2. **Auditing button**
Displays the users who have used this printer and how they used it.
3. **Ownership button**
Set the ownership of the printer.

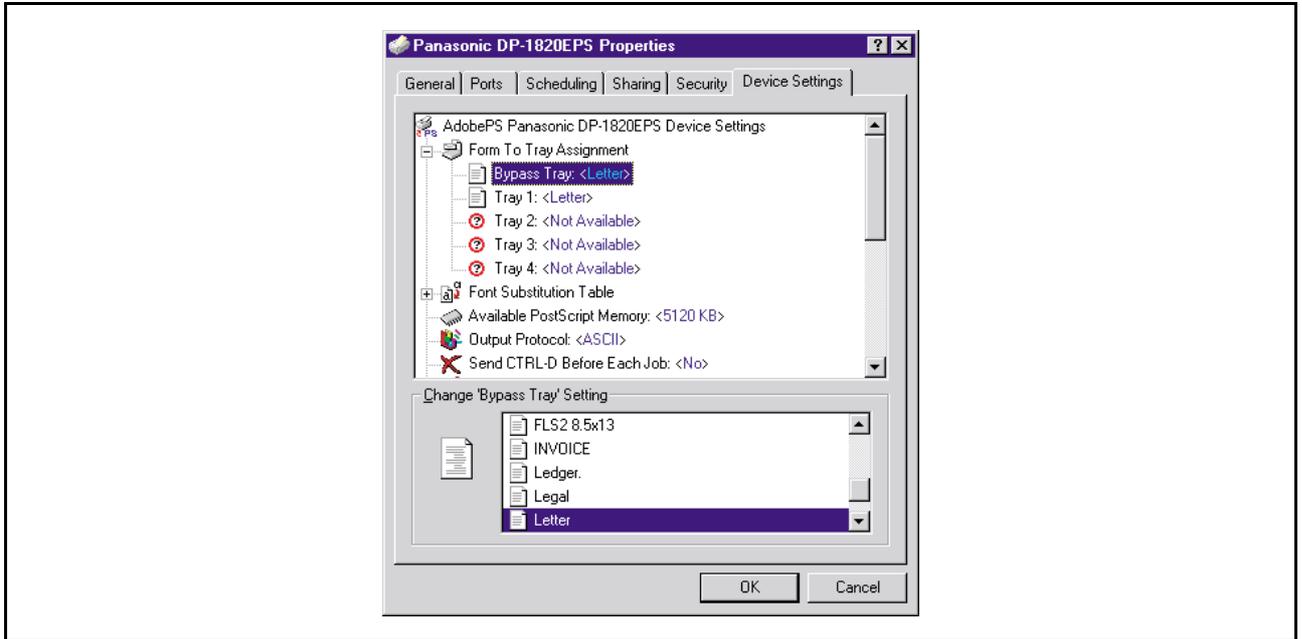
NOTE

1. In order to utilize these features, first you need to select **Audit...** from **User Manager's Policies** and enable **File and Object Access** in the **Audit Policy** dialog box.

Configuring the Printer Driver Settings

Windows NT 4.0 (Administrator)

Device Settings Tab (DP-180/190/1520P/1820P/1820E)



Specifies the following printer settings and options:

- **Form To Tray Assignment**

Specifies the paper size of each available tray.

- **Font Substitution Table**

Specifies which PostScript fonts to substitute for TrueType fonts. Instead of sending all TrueType fonts to your printer, this option substitutes a PostScript printer font for the common TrueType fonts used in your document.

- **Available PostScript Memory**

Specifies the amount of available printer memory. The driver uses this information when performing printing tasks, such as sending fonts from the computer to the printer.

- **Output Protocol**

Specifies the data format to the printer. Only use this option if you are an advanced user with experience working with PostScript.

- **Send CTRL-D Before/After Each Job**

Sends a CTRL+D to notify the printer that the current job has finished printing and to reset the printer. Only use this option if you are an advanced user with experience working with PostScript.

- **Convert Gray Text/Graphics to PostScript Gray**

This feature is not available on these machines.

- **Add Euro Currency Symbol to PostScript Fonts**

Adds the European currency symbol to most PostScript fonts.

- **Job timeout**

Specifies the maximum number of seconds that the print job can take to get from the computer to the printer before the job is canceled.

A value of zero means that the job is never canceled. If your printer is shared, do not specify a value of zero.

Configuring the Printer Driver Settings

Windows NT 4.0 (Administrator)

- **Wait timeout**

Specifies the maximum number of seconds that the printer will wait for the computer to send data before canceling the job.

A value of zero means that the job is never canceled. If your printer is shared, do not specify a value of zero.

- **Minimum Font Size to Download as Outline**

Specifies the minimum font size to download as Outline. Increasing this value can speed up printing.

- **Maximum Font Size to Download as Bitmap**

Specifies the maximum font size to download as Bitmap. Decreasing this value can speed up printing.

Installable Options

- **Number of Paper Trays**

Select the number of available paper trays if optional Paper Feed Module(s) are installed.

- **Hard Disk Drive**

Select if the HDD Unit is installed.

- **Memory**

Select the memory (Standard or additional).

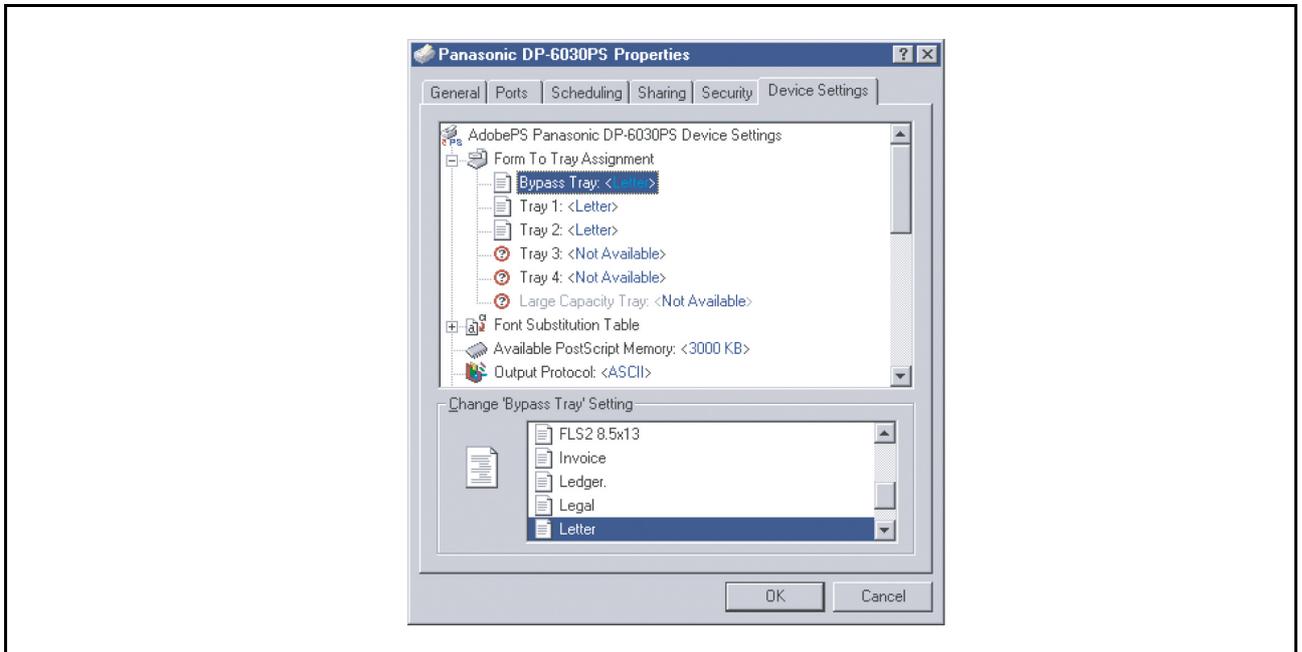
(Only available if the optional HDD unit (DA-HD18/HD19/HD30/HD60) is installed)

- Note:**
1. DA-HD18: For DP1520P/1820P/1820E; DA-HD19: For DP-180/190; DA-HD30: For DP-2330/3030; DA-HD60: For DP-3530/4530/6030.
 2. Make sure that the **Device Settings Tab** is set properly before printing a document. Otherwise, printing problems may occur.

Configuring the Printer Driver Settings

Windows NT 4.0 (Administrator)

Device Settings Tab (DP-2330/3030/3530/4530/6030)



Specifies the following printer settings and options:

- **Form To Tray Assignment**

Specifies the paper size of each available tray.

- **Font Substitution Table**

Specifies which PostScript fonts to substitute for TrueType fonts. Instead of sending all TrueType fonts to your printer, this option substitutes a PostScript printer font for the common TrueType fonts used in your document.

- **Available PostScript Memory**

Specifies the amount of available printer memory. The driver uses this information when performing printing tasks, such as sending fonts from the computer to the printer.

- **Output Protocol**

Specifies the data format to the printer. Only use this option if you are an advanced user with experience working with PostScript.

- **Send CTRL-D Before/After Each Job**

Sends a CTRL+D to notify the printer that the current job has finished printing and to reset the printer. Only use this option if you are an advanced user with experience working with PostScript.

- **Convert Gray Text/Graphics to PostScript Gray**

This feature is not available on your machine.

- **Add Euro Currency Symbol to PostScript Fonts**

Adds the European currency symbol to most PostScript fonts.

- **Job timeout**

Specifies the maximum number of seconds that the print job can take to get from the computer to the printer before the job is canceled.

A value of zero means that the job is never canceled. If your printer is shared, do not specify a value of zero.

Configuring the Printer Driver Settings

Windows NT 4.0 (Administrator)

- **Wait timeout**

Specifies the maximum number of seconds that the printer will wait for the computer to send data before canceling the job.

A value of zero means that the job is never canceled. If your printer is shared, do not specify a value of zero.

- **Minimum Font Size to Download as Outline**

Specifies the minimum font size to download as Outline. Increasing this value can speed up printing.

- **Maximum Font Size to Download as Bitmap**

Specifies the maximum font size to download as Bitmap. Decreasing this value can speed up printing.

Installable Options

- **Number of Paper Trays**

Select the number of available paper trays if optional Paper Feed Module(s) are installed.

- **Large Capacity Paper Tray (LCT) (For DP-3530/4530/6030 only)**

Select if a Large Capacity Paper Tray is installed.

- **Finisher (For DP-3530/4530/6030 only)**

Select the type of Finisher if a Finisher is installed.

- **Punch Unit (For DP-3530/4530/6030 only)**

Select if a Punch Unit is installed.

- **Outer Option (For DP-2330/3030 only)**

Select the type of Finisher if a Finisher is installed.

- **Inner Tray (For DP-2330/3030 only)**

Select "Installed" if the Inner Tray is installed.

- **Duplex Unit (For DP-2330/3030 only)**

Select "Installed" if the Duplex Unit is installed.

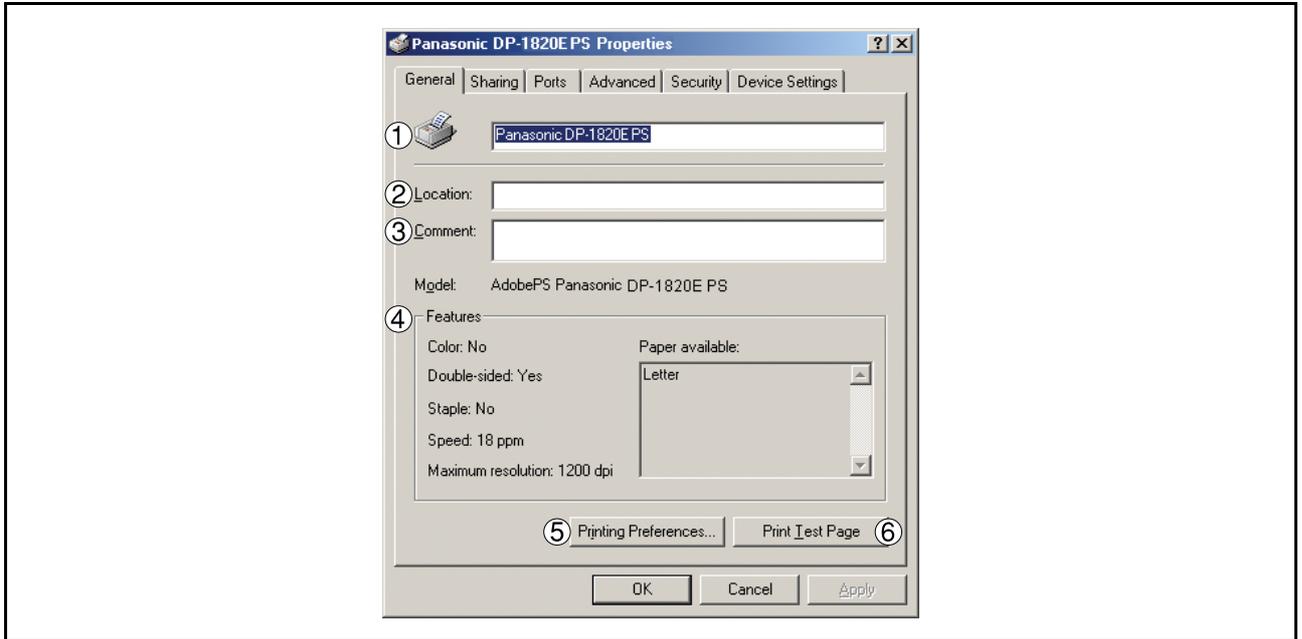
- **Hard Disk Drive**

Select if the HDD Unit is installed.

Configuring the Printer Driver Settings

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

General Tab



1. Printer Name

Name of the printer specified upon installation is displayed.

2. Location

Specifies the printer location.

3. Comment

Enter comments to the properties, if any.

If another user sets up this printer on his or her computer when sharing the printer, the comment specified here will also appear on that computer. However, the comment displayed for an existing user will remain unchanged even if the comment is modified later.

4. Features

Functions and settings of the printer are displayed.

5. Printing Preferences... button

Changes properties (print settings) specifiable for each user.

Refer to "Printing from Windows Applications" for detailed settings. (See page 113)

6. Print Test Page button

Prints a test page. This allows the user to verify if the printer is installed properly.

NOTE

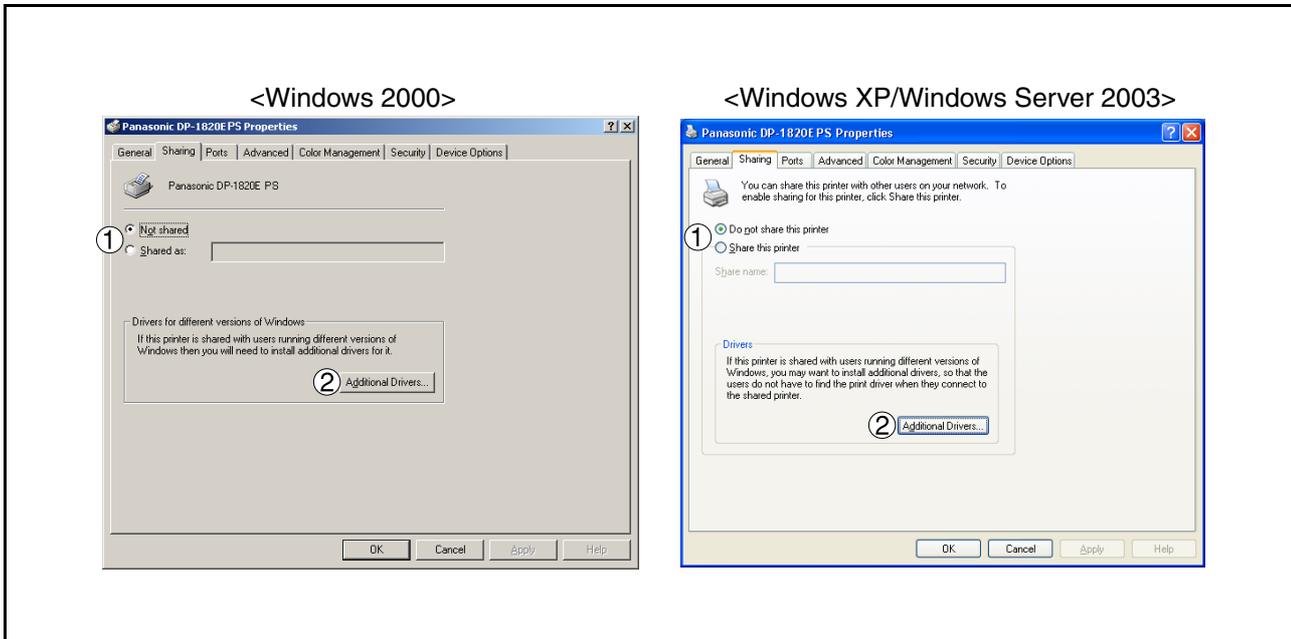
1. In Windows 2000/Windows XP/Windows Server 2003, setting the properties depends on the logon account. This section describes properties to be specified by the administrator (system manager).

See "Printing from Windows Applications" for details on user properties. (See page 113)

Configuring the Printer Driver Settings

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

Sharing Tab



1. Not shared/Shared as (Do not share this printer/Share this printer)

Select whether to display or share this printer with other computers.

For sharing a printer, specify the share name of a printer to be shared. A name specified here appears when other users view the printer information on a network.

2. Additional Drivers... button (The PS Printer Driver is not available in this menu.)

Allows other operating systems printer drivers to be loaded. When users of these operating systems connect to the printer, the printer driver is automatically loaded.

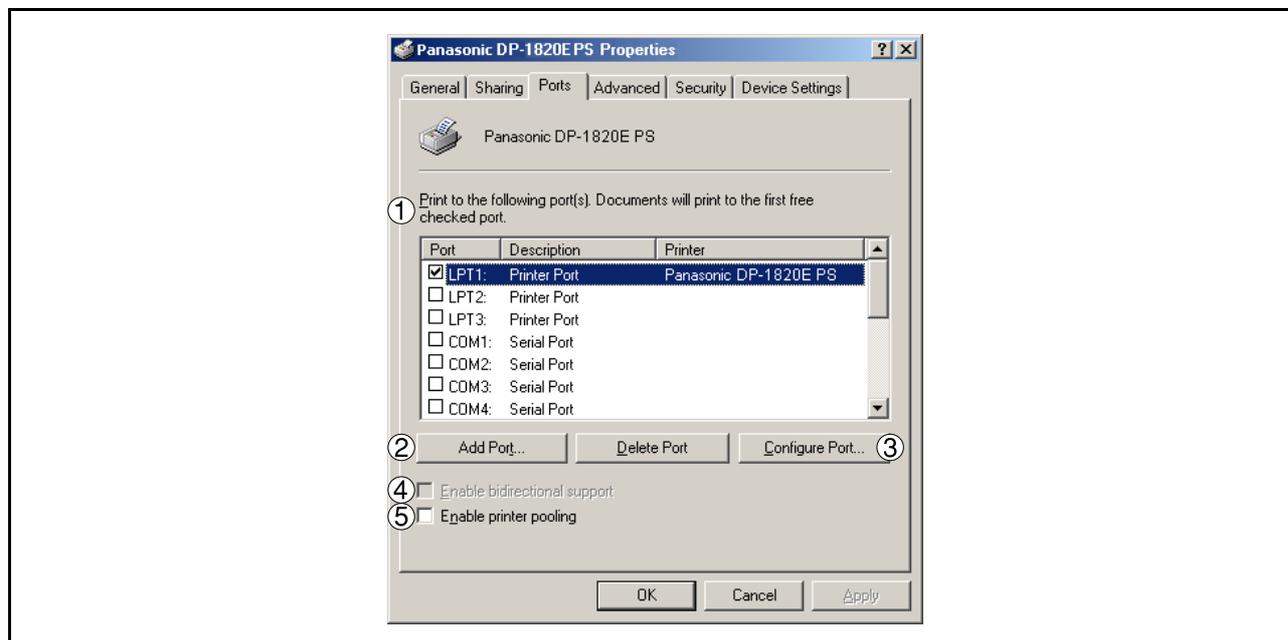
NOTE

1. When sharing a printer on the network, the print driver needs to be installed on the print server only; other computers will automatically copy and use that driver. For this reason, the print server must be ready with printer drivers for all the operating systems of all the computers that will be sharing the printer.
2. If Windows is set to disable remote access to your PC for security, Windows will ask you to activate the Network Setup Wizard. Follow the messages to enable the Sharing Tab.

Configuring the Printer Driver Settings

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

Ports Tab



1. Print to the following port(s)

Displays a list of available ports for printing (Port), their status (Description) and printers that are connected to these ports (Printer).

2. Add Port... / Delete Port button

Adds/deletes a new port or a new network path.

3. Configure Port... button

Configures the selected port. In case of a parallel port, Transmission Retry should be specified.

4. Enable bidirectional support (The feature is not available with these models.)

Be sure to check the check box for "Enable bidirectional support" when installing the status monitor. Otherwise, status information reception may not function properly.

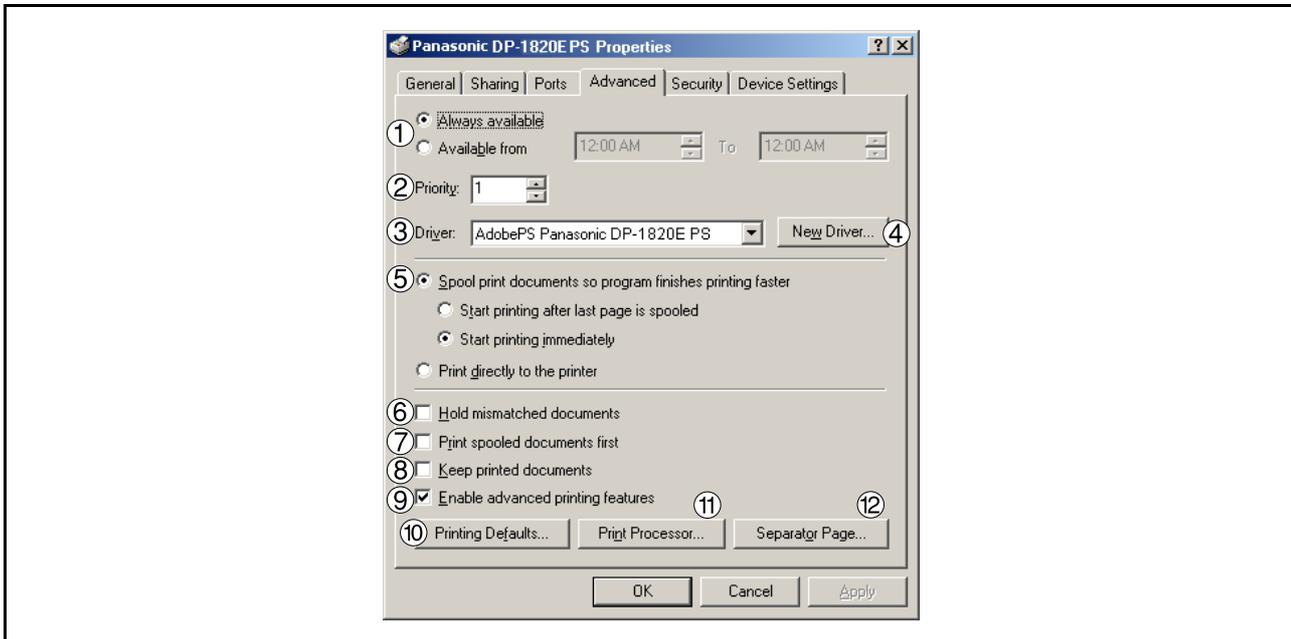
5. Enable printer pooling

Printer pooling allows outputting data from one logical printer to two or more printers. With printer pooling enabled, a transmitted printing job is output to the first printer that is ready for printing.

Configuring the Printer Driver Settings

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

Advanced Tab



- 1. Always available/Available from**
Schedules when the printer is available for operation. Specify operating hours when **From-To** is selected.
- 2. Priority**
Sets printing priority. The slider allows the priority to be adjusted from 1 through 99.
- 3. Driver**
Displays the printer driver type. Specify the printer being used or a printer model that can be emulated with the printer being used.
- 4. button**
Updates or modifies the printer driver.
- 5. Spool print documents... / Print directly to the printer**
Specify how documents should be sent from an application to the printer.
- 6. Hold mismatched documents**
The spooler compares document settings against printer settings and holds printing of a document if its settings (Paper Size, Orientation, and so on) do not match the printer settings.
- 7. Print spooled documents first**
Always prints spooled documents first regardless of printing priority.
- 8. Keep printed documents**
Holds documents in the print queue even after they have been printed. These documents can be printed again directly from the queue regardless of the state the application is in.
- 9. Enable advanced printing features**
Enables advanced printing features. Optional printer features (page ordering, booklet printing, numbering on sheets) are enabled. These features can be disabled if a problem occurs due to incompatibility. Disabling the features may also disable the printing options.

Continued on the next page...

Configuring the Printer Driver Settings

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

10. **button**

Specifies standard (default) values for the properties (print settings) specifiable for each user. If a local printer is shared, the settings here are used as printing defaults for other users. Refer to "Printing from Windows Applications" for detailed settings. (See page 113)

11. **button**

Specify the processor to be used for printing (Print Processor) and the data type (Default Data type). The processor and data type affect the manner in which the printer functions in Windows 2000/Windows XP/Windows Server 2003. Normally they do not need to be modified. However, modification might be necessary when the printer is used with a special application.

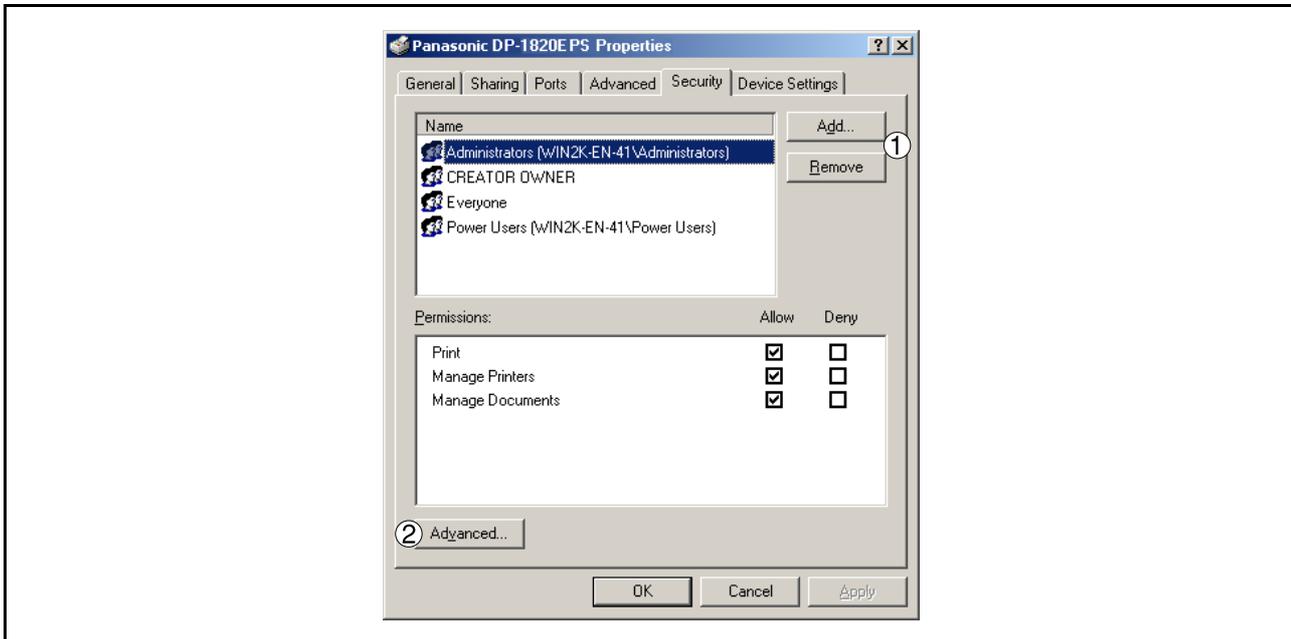
12. **button**

This feature is not available on these machines.

Configuring the Printer Driver Settings

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

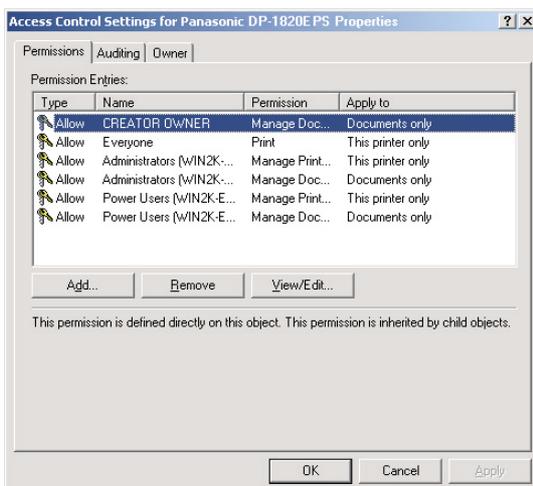
Security Tab



Displays a list of users and groups to whom printer access is assigned to. A list of standard permissions for each group or user is displayed. Check the checkboxes for permitting or prohibiting access. Gray checkbox indicates the permission inheritance.

1. **Add...** / **Remove** button
Add or delete a user or group from the list.

2. **Advanced...** button
Specify access to a printer, audit, and owner.



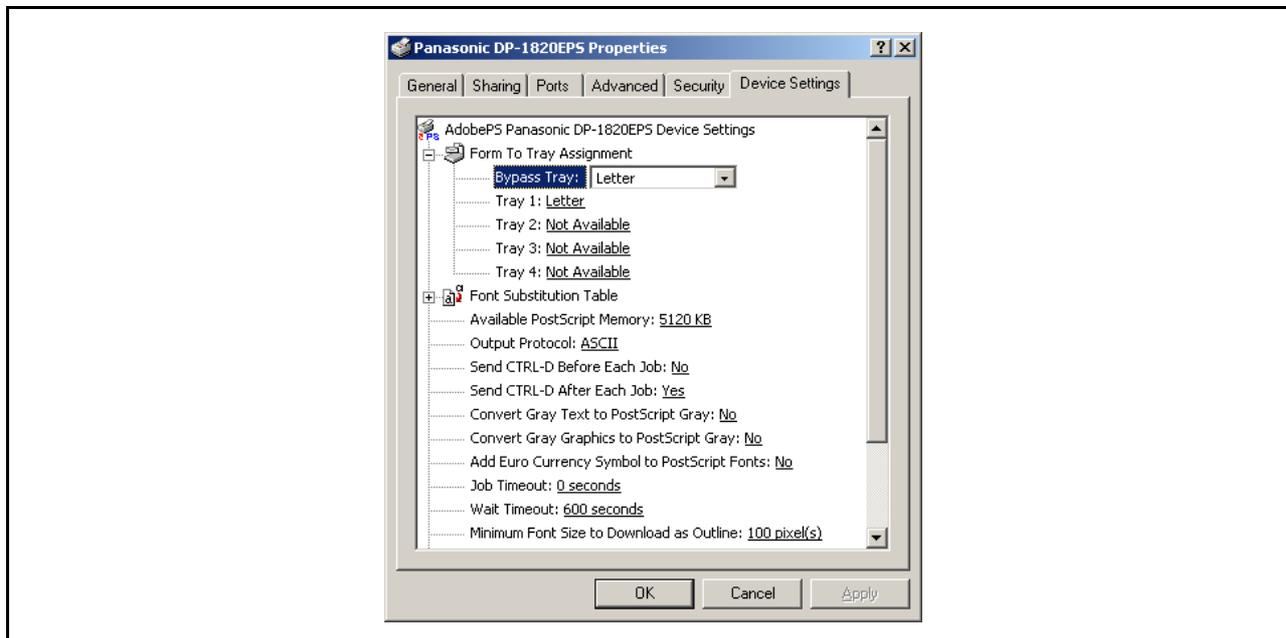
NOTE

1. Windows 2000 provides the capability of managing access to various objects (e.g. printers) by users.
2. Refer to Windows 2000 documentation for details on access permission, audit, and owner.
3. Windows XP/Windows Server 2003 users should refer to the documentation to enable the Security Tab if this tab is not shown on your PC.

Configuring the Printer Driver Settings

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

Device Settings Tab (DP-180/190/1520P/1820P/1820E)



Specifies the following printer settings and options:

- **Form To Tray Assignment**

Specifies the paper size of each available tray.

- **Font Substitution Table**

Specifies which PostScript fonts to substitute for TrueType fonts. Instead of sending all TrueType fonts to your printer, this option substitutes a PostScript printer font for the common TrueType fonts used in your document.

- **Available PostScript Memory**

Specifies the amount of available printer memory. The driver uses this information when performing printing tasks, such as sending fonts from the computer to the printer.

- **Output Protocol**

Specifies the data format to the printer. Only use this option if you are an advanced user with experience working with PostScript.

- **Send CTRL-D Before/After Each Job**

Sends a CTRL+D to notify the printer that the current job has finished printing and to reset the printer. Only use this option if you are an advanced user with experience working with PostScript.

- **Convert Gray Text/Graphics to PostScript Gray**

This feature is not available on these machines.

- **Add Euro Currency Symbol to PostScript Fonts**

Adds the European currency symbol to most PostScript fonts.

- **Job timeout**

Specifies the maximum number of seconds that the print job can take to get from the computer to the printer before the job is canceled.

A value of zero means that the job is never canceled. If your printer is shared, do not specify a value of zero.

Configuring the Printer Driver Settings

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

- **Wait timeout**

Specifies the maximum number of seconds that the printer will wait for the computer to send data before canceling the job.

A value of zero means that the job is never canceled. If your printer is shared, do not specify a value of zero.

- **Minimum Font Size to Download as Outline**

Specifies the minimum font size to download as Outline. Increasing this value can speed up printing.

- **Maximum Font Size to Download as Bitmap**

Specifies the maximum font size to download as Bitmap. Decreasing this value can speed up printing.

Installable Options

- **Number of Paper Trays**

Select the number of available paper trays if optional Paper Feed Module(s) are installed.

- **Hard Disk Drive**

Select if the HDD Unit is installed.

- **Memory**

Select the memory (Standard or additional).

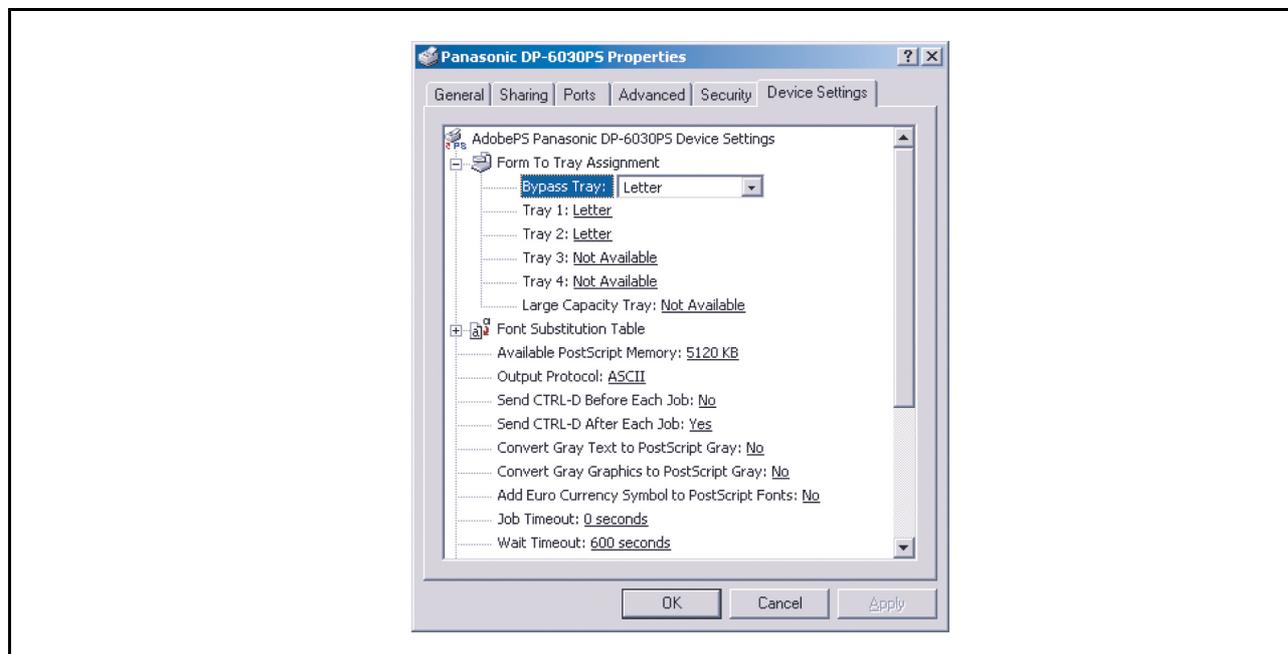
Only available if the optional HDD unit (DA-HD18/HD19/HD30/HD60) is installed.

- Note:**
1. DA-HD18: For DP1520P/1820P/1820E; DA-HD19: For DP-180/190; DA-HD30: For DP-2330/3030; DA-HD60: For DP-3530/4530/6030.
 2. Make sure that the **Device Settings Tab** is set properly before printing a document. Otherwise, printing problems may occur.

Configuring the Printer Driver Settings

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

Device Settings Tab (DP-2330/3030/3530/4530/6030)



Specifies the following printer settings and options:

- **Form To Tray Assignment**

Specifies the paper size of each available tray.

- **Font Substitution Table**

Specifies which PostScript fonts to substitute for TrueType fonts. Instead of sending all TrueType fonts to your printer, this option substitutes a PostScript printer font for the common TrueType fonts used in your document.

- **Available PostScript Memory**

Specifies the amount of available printer memory. The driver uses this information when performing printing tasks, such as sending fonts from the computer to the printer.

- **Output Protocol**

Specifies the data format to the printer. Only use this option if you are an advanced user with experience working with PostScript.

- **Send CTRL-D Before/After Each Job**

Sends a CTRL+D to notify the printer that the current job has finished printing and to reset the printer. Only use this option if you are an advanced user with experience working with PostScript.

- **Convert Gray Text/Graphics to PostScript Gray**

This feature is not available on your machine.

- **Add Euro Currency Symbol to PostScript Fonts**

Adds the European currency symbol to most PostScript fonts.

- **Job timeout**

Specifies the maximum number of seconds that the print job can take to get from the computer to the printer before the job is canceled.

A value of zero means that the job is never canceled. If your printer is shared, do not specify a value of zero.

Configuring the Printer Driver Settings

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

- **Wait timeout**

Specifies the maximum number of seconds that the printer will wait for the computer to send data before canceling the job.

A value of zero means that the job is never canceled. If your printer is shared, do not specify a value of zero.

- **Minimum Font Size to Download as Outline**

Specifies the minimum font size to download as Outline. Increasing this value can speed up printing.

- **Maximum Font Size to Download as Bitmap**

Specifies the maximum font size to download as Bitmap. Decreasing this value can speed up printing.

Installable Options

- **Number of Paper Trays**

Select the number of available paper trays if optional Paper Feed Module(s) are installed.

- **Large Capacity Paper Tray (LCT) (For DP-3530/4530/6030 only)**

Select if a Large Capacity Paper Tray is installed.

- **Finisher (For DP-3530/4530/6030 only)**

Select the type of Finisher if a Finisher is installed.

- **Punch Unit (For DP-3530/4530/6030 only)**

Select if a Punch Unit is installed.

- **Outer Option (For DP-2330/3030 only)**

Select the type of Finisher if a Finisher is installed.

- **Inner Tray (For DP-2330/3030 only)**

Select "Installed" if the Inner Tray is installed.

- **Duplex Unit (For DP-2330/3030 only)**

Select "Installed" if the Duplex Unit is installed.

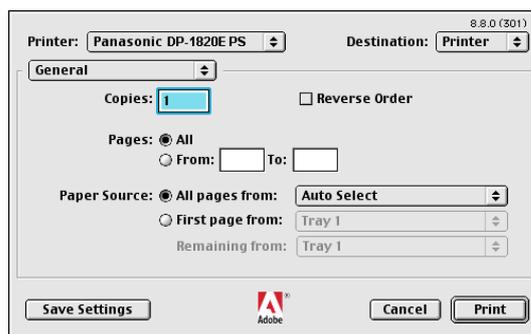
- **Hard Disk Drive**

Select if the HDD Unit is installed.

Configuring the Printer Driver Settings (Macintosh)

To change the printer settings, open the printer properties by performing the following steps.

- 1** Select the **File** menu > **Print**.
- 2** Select the Panasonic printer.



In print window, you will see a number of titles in the pop-up menu. The appropriate operating system shows different titles in the window.

Mac OS 8.6/9.x:

Click the  button to save the current settings for the default values.

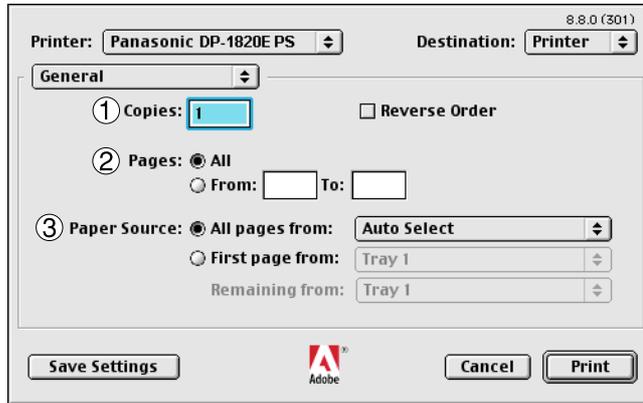
Mac OS X:

Select **Save Custom Setting** menu to save the current settings for the default values.

Configuring the Printer Driver Settings (Macintosh)

Mac OS 8.6/9.x

General Menu



1. Copies

Specify the number of copies to be printed.

2. Pages

Specify the range of printing pages.

3. Paper Source

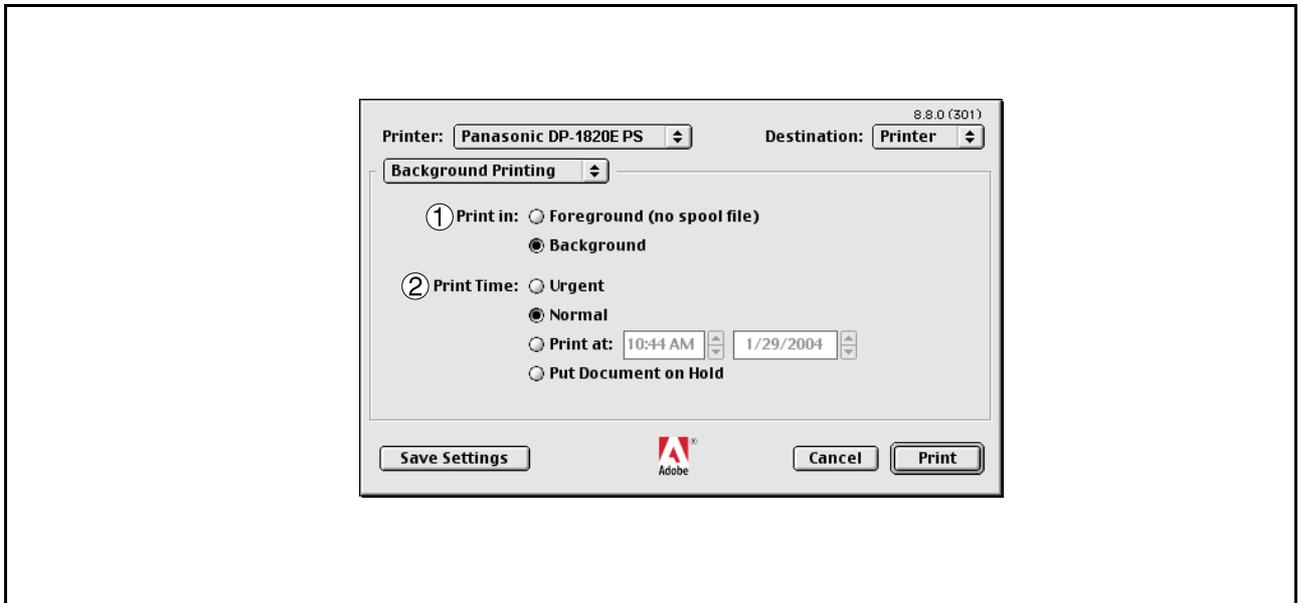
Specify where the paper you want to use is located in the device. If you choose **Auto Select**, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

- Note:**
1. If no paper size match is found, the printer drive will select the Tray 1. (DP-180/190)
 2. If no paper size match is found, the printer drive will select the Bypass Tray. (DP-1520P/1820P/1820E/2330/3030/3530/4530/6030)

Configuring the Printer Driver Settings (Macintosh)

Mac OS 8.6/9.x

Background Printing Menu



1. Print in

Select Foreground or Background printing.

Foreground printing ties-up your Macintosh while it prints the job. Printing is completed more quickly, and the document takes less disk space when preparing for printing.

The Background selection causes your Macintosh to write your job to the hard disk before printing it. This frees-up the computer so you can work while the job is printing, but it takes longer overall.

2. Print Time

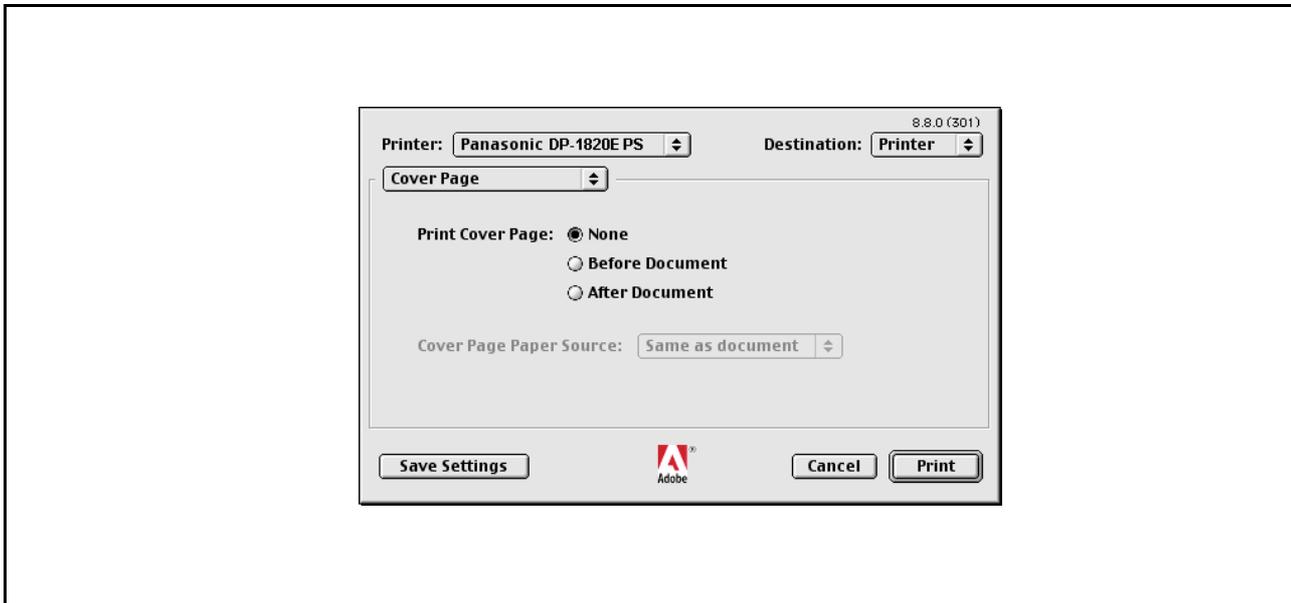
Schedules when the printer outputs current documents.

You can specify operating hours when From-To is selected, or holds documents in the print queue.

Configuring the Printer Driver Settings (Macintosh)

Mac OS 8.6/9.x

Cover Page Menu



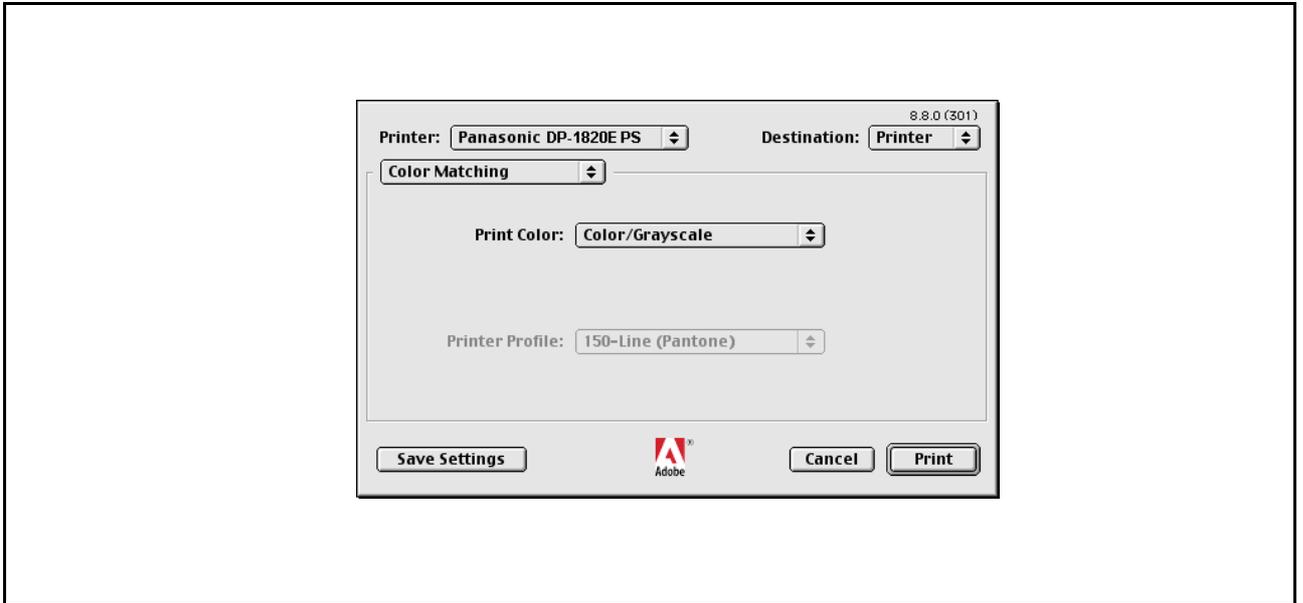
NOTE:

This feature is not available on these machines.

Configuring the Printer Driver Settings (Macintosh)

Mac OS 8.6/9.x

Color Matching Menu

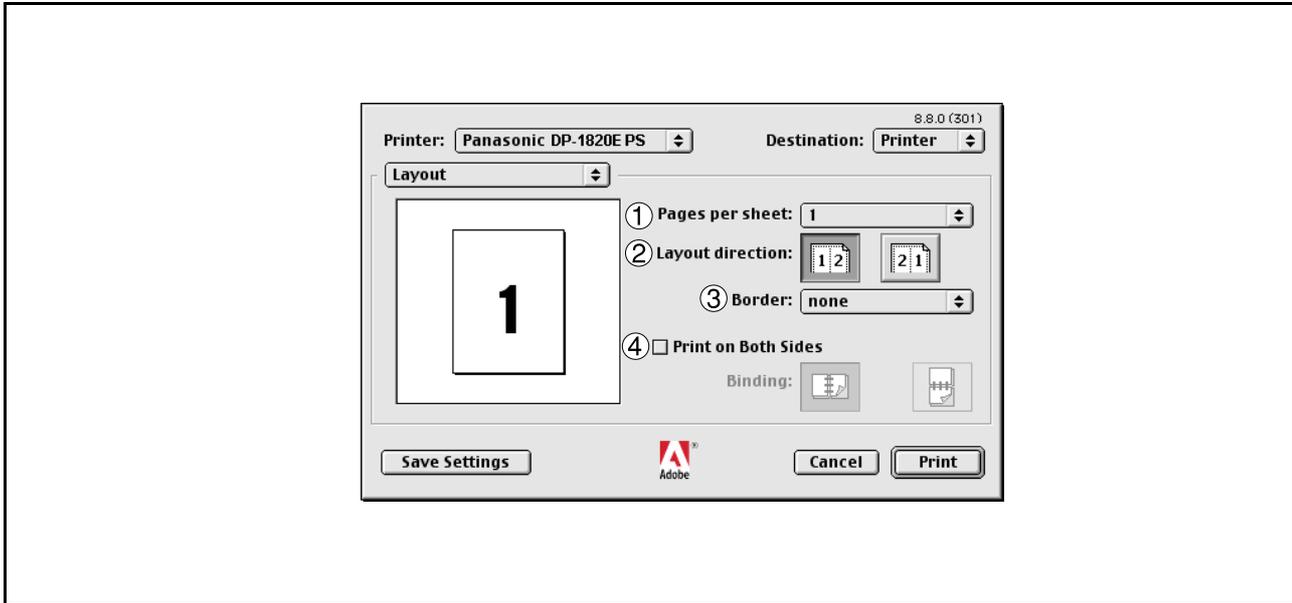


NOTE:
This feature is not available on these machines.

Configuring the Printer Driver Settings (Macintosh)

Mac OS 8.6/9.x

Layout Menu



1. Pages per sheet

Specify the number for printing multiple documents on a single sheet of paper. Select this option to view an example.

2. Layout direction

Specify the layout direction for printing multiple documents on a single sheet of paper. Select this option to view an example.

3. Border

Specify whether page borders are used when printing multiple documents on a single sheet of paper.

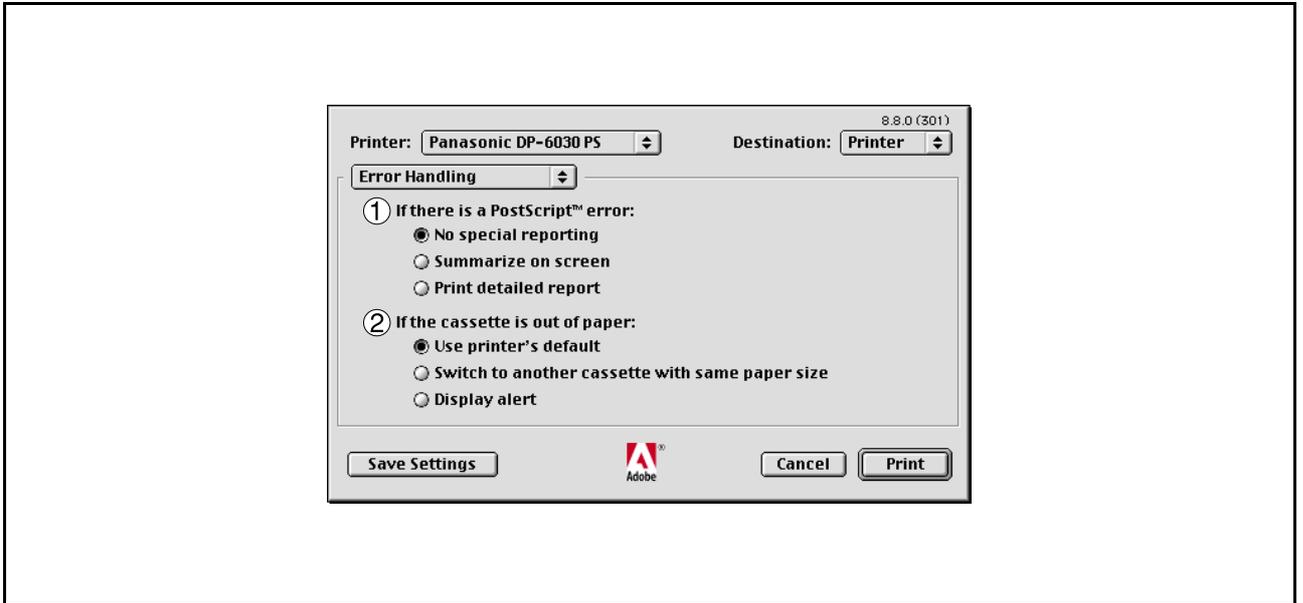
4. Print on Both Sides / Binding

Specify whether and how the printer should print the document on both sides of the paper.

Configuring the Printer Driver Settings (Macintosh)

Mac OS 8.6/9.x

Error Handling Menu

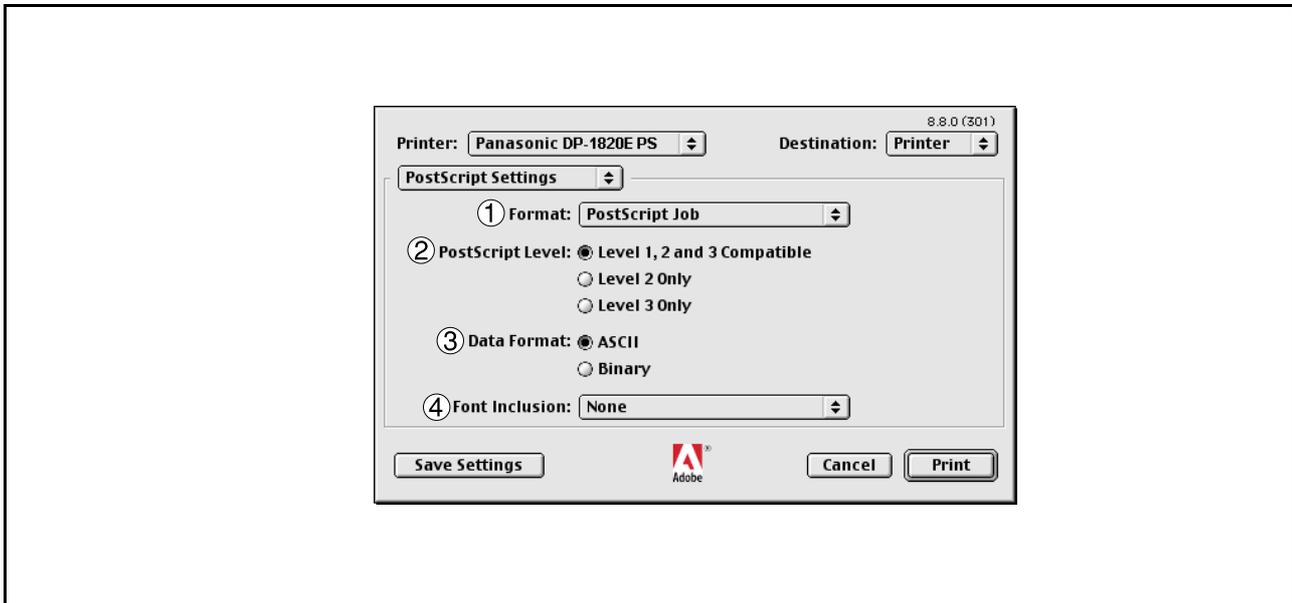


- 1. If there is a PostScript error**
Specifies how to send PostScript error information with every document that you print.
- 2. If the paper tray is out of paper (For DP-2330/3030/3530/4530/6030 only)**
Specify what will happen if paper runs out in the chosen paper tray.

Configuring the Printer Driver Settings (Macintosh)

Mac OS 8.6/9.x

PostScript Settings Menu



1. Format

Specifies the format for the PostScript files. Generally, use PostScript job for printing a document.

2. PostScript Level

Specifies the level for the PostScript.

3. Data Format

Specifies the data format to the printer. Only use this option if you are an advanced user with experience working with PostScript.

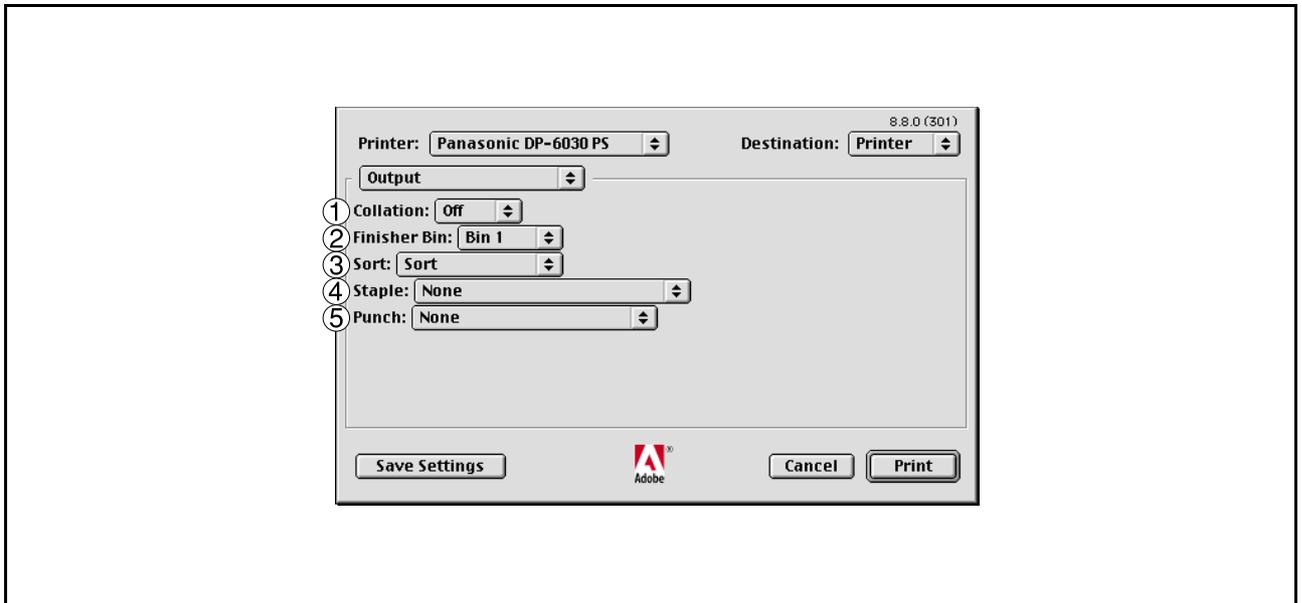
4. Font Inclusion

Specifies the font inclusion for the PostScript print.

Configuring the Printer Driver Settings (Macintosh)

Mac OS 8.6/9.x

Output Menu



1. Collation

This feature is not available on these machines.

2. Finisher Bin/Output Tray (For DP-2330/3030/3530/4530/6030 only)

Specifies which output bin to use for your printed document. Some printer models have more than one output bin you can use for sorting your documents.

3. Sort

Select whether to Stack or Sort when printing multiple copies.

Note: Paper must be loaded into the machine in both directions when using the Rotate Stack and Rotate Sort functions (i.e. Letter and Letter-R, A4 and A4-R).

4. Staple (For DP-2330/3030/3530/4530/6030 only)

Select the staple position. Available if the optional Finisher (DA-FS300, FS330, FS355, FS600 or FS605) is installed.

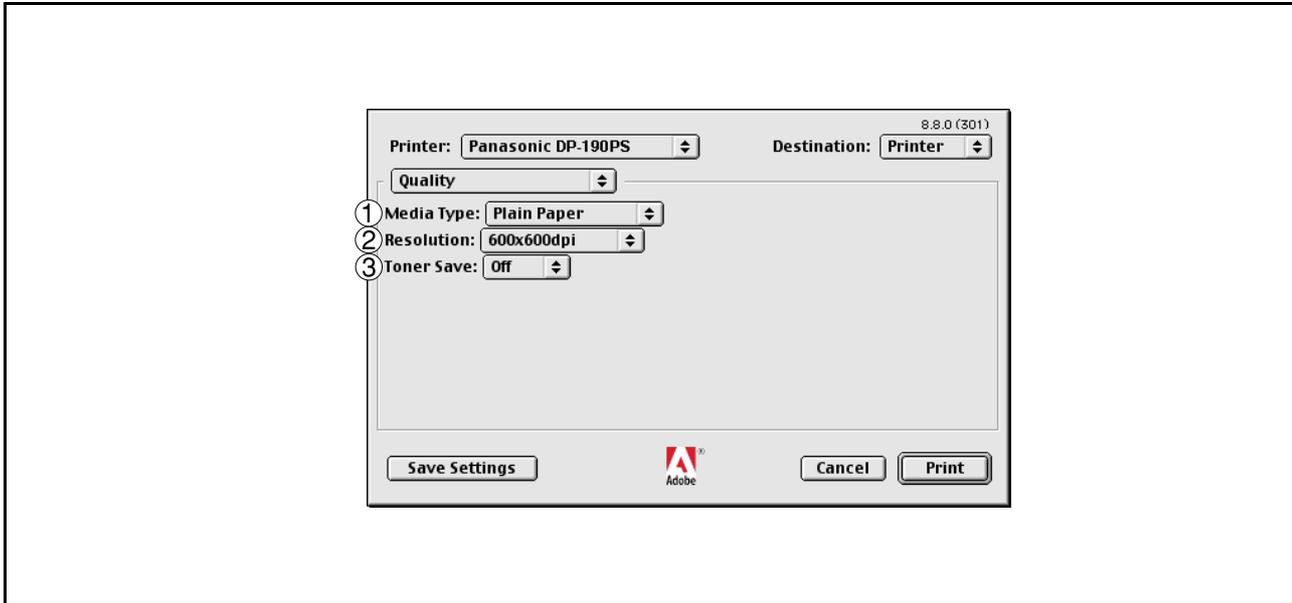
5. Punch (For DP-3530/4530/6030 only)

Select the punch position. Available if the optional Punch Unit is installed.

Configuring the Printer Driver Settings (Macintosh)

Mac OS 8.6/9.x

Quality Menu



1. Media Type

Select the paper type.

Note: If selecting other than **Plain Paper** for the **Media Type**, the printer driver will select the **Bypass Tray** if **Auto Select Tray** was selected as the **Paper source** within the **General** menu (see page 89).

2. Resolution

Select the resolution you want for printing (300/600/1200dpi Enhanced).

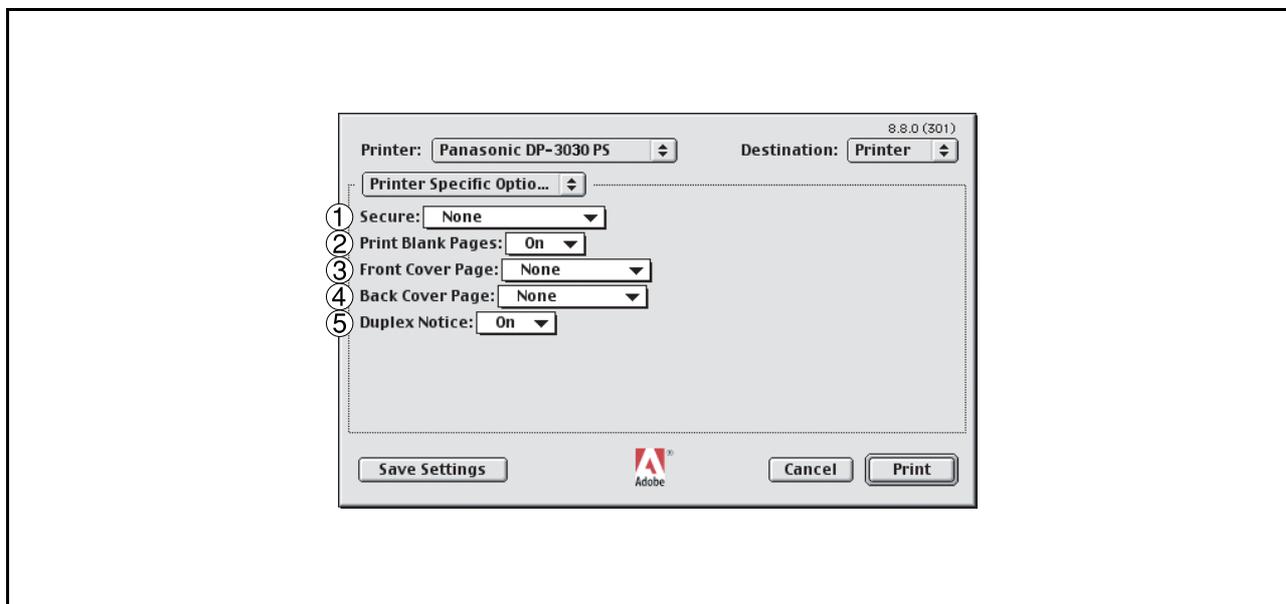
3. Toner Save (For DP-180/190 only)

This setting saves toner by reducing its consumption, and it is cost-effective when printing many draft copies prior to the final document.

Configuring the Printer Driver Settings (Macintosh)

Mac OS 8.6/9.x

Printer Specific Options Menu



1. Secure

Select Mailbox or Secure Mailbox if storing the print data into the mailbox of the machine. Available if the optional Hard Disk Drive Unit (DA-HD18/HD19/HD30/HD60) is installed.

Note: 1. The PS Driver Security Utility must be installed in order to use the user ID password.
2. DA-HD18: For DP1520P/1820P/1820E; DA-HD19: For DP-180/190;
DA-HD30: For DP-2330/3030; DA-HD60: For DP-3530/4530/6030.

2. Print Blank Pages

Select whether the blank pages are printed or not.

3. Front Cover Page

Select to insert a blank page as a Front Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

4. Back Cover Page

Select to insert a blank page as a Back Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

5. Duplex Notice (For DP-2330/3030 only)

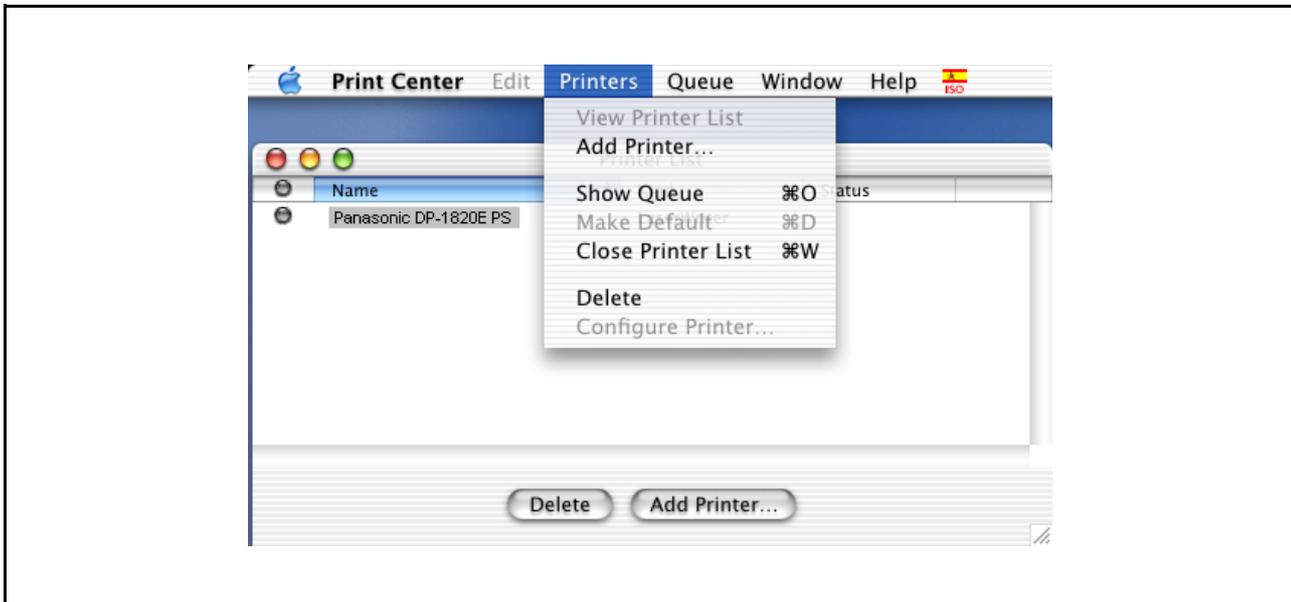
Check whether "2-Sided Print" is printed on the footer of 1st page when printing with 2-Sided Page Style.

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

<For Mac OS X 10.1>

With Macintosh OS X, such functions as Staple, Punch and Secure cannot be used because **Print Center > Printers > Configure Printer...** is grayed out and Device Options cannot be selected.

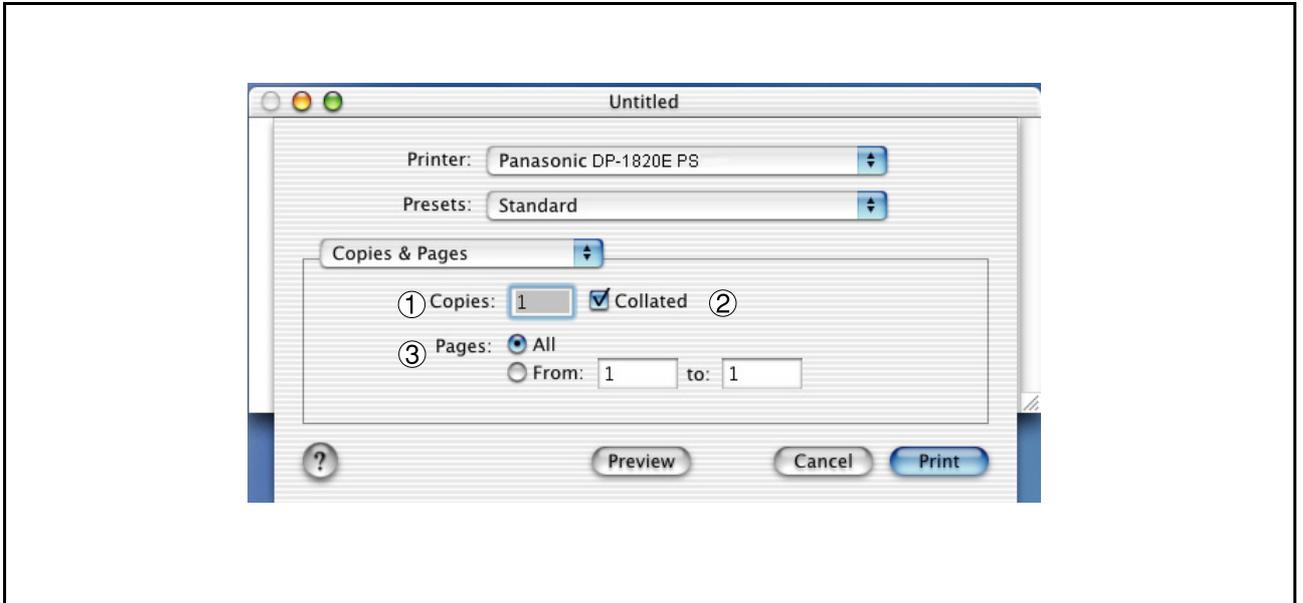


For details, refer to Support on Apple's website (<http://www.info.apple.com/>).

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

Copies & Pages Menu

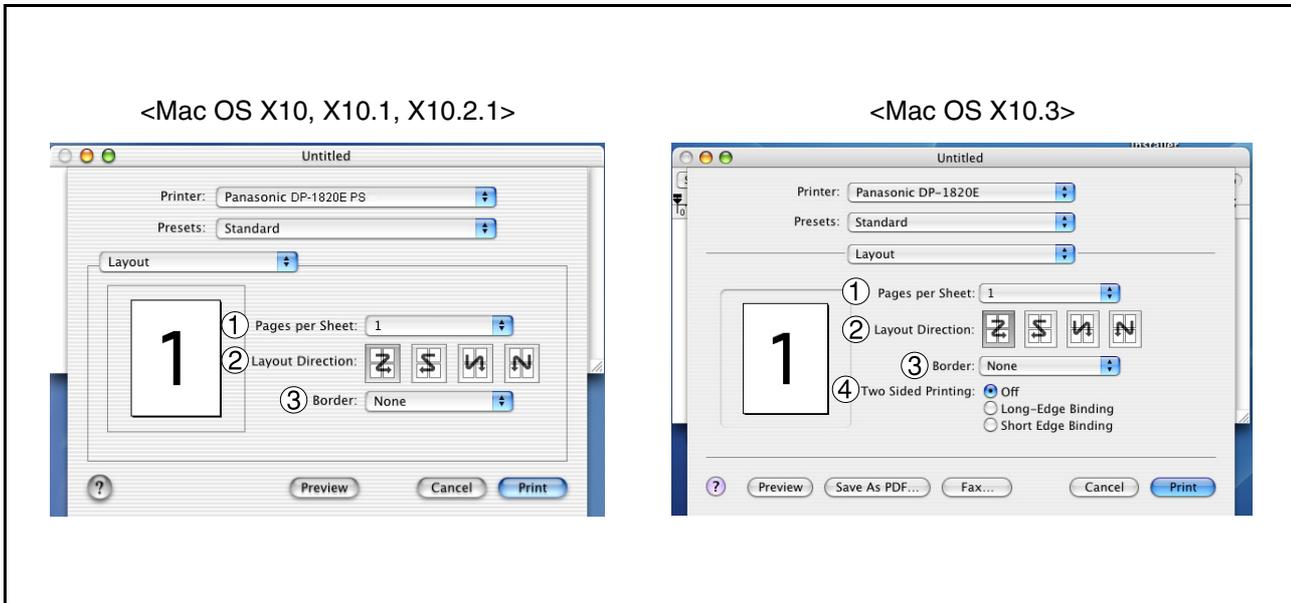


1. **Copies**
Specify the number of copies to be printed.
2. **Collated**
This feature is not available on these machines.
3. **Pages**
Specify the range of printing pages.

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

Layout Menu



1. Pages per Sheet

Specify the number for printing multiple documents on a single sheet of paper. Select this option to view an example.

2. Layout Direction

Specify the layout direction for printing multiple documents on a single sheet of paper. Select this option to view an example.

3. Border

Specify whether page borders are used when printing multiple documents on a single sheet of paper.

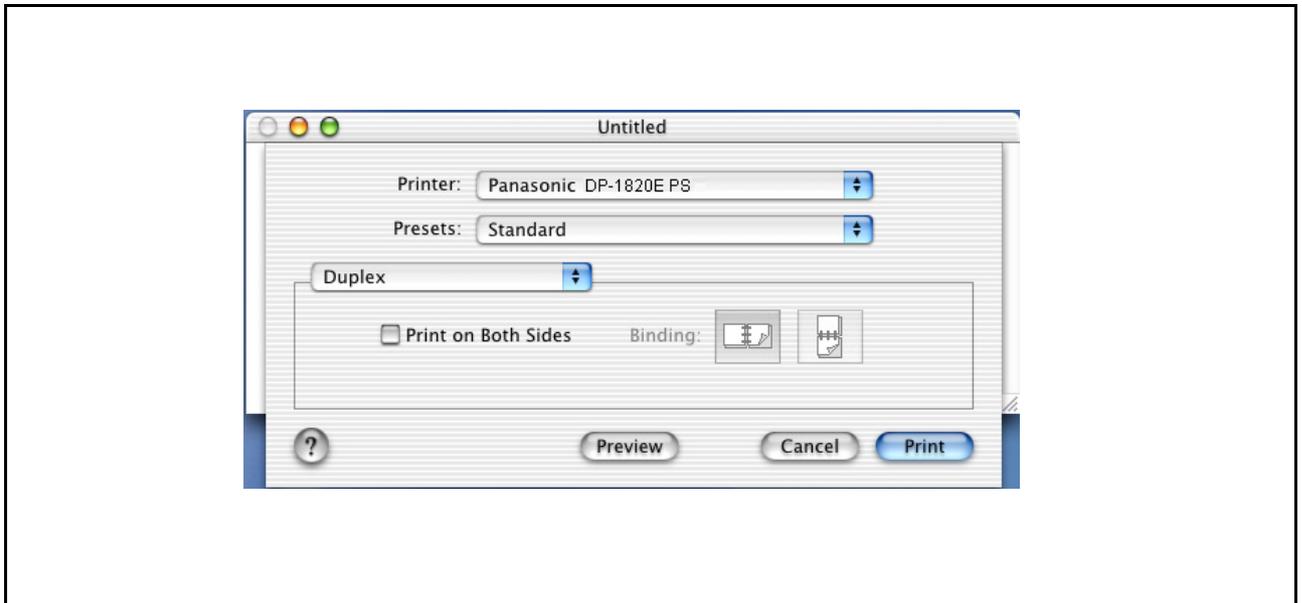
4. Two Sided Printing

Specify whether and how the printer should print the document on both sides of the paper.

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

Duplex Menu (For Mac OS X10, X10.1, X10.2.1 only)



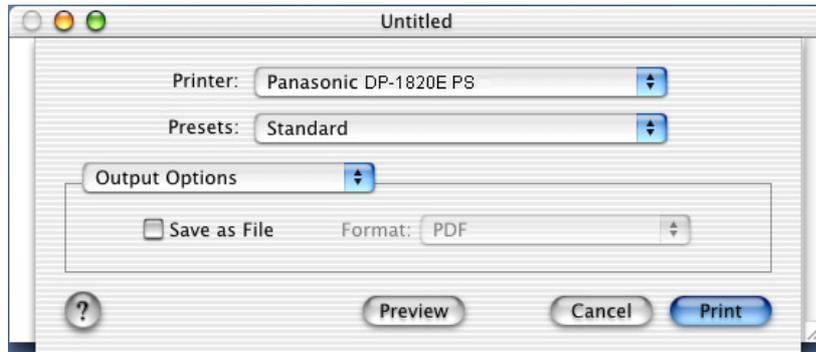
Print on Both Sides / Binding

Specify whether and how the printer should print the document on both sides of the paper.

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

Output Options Menu



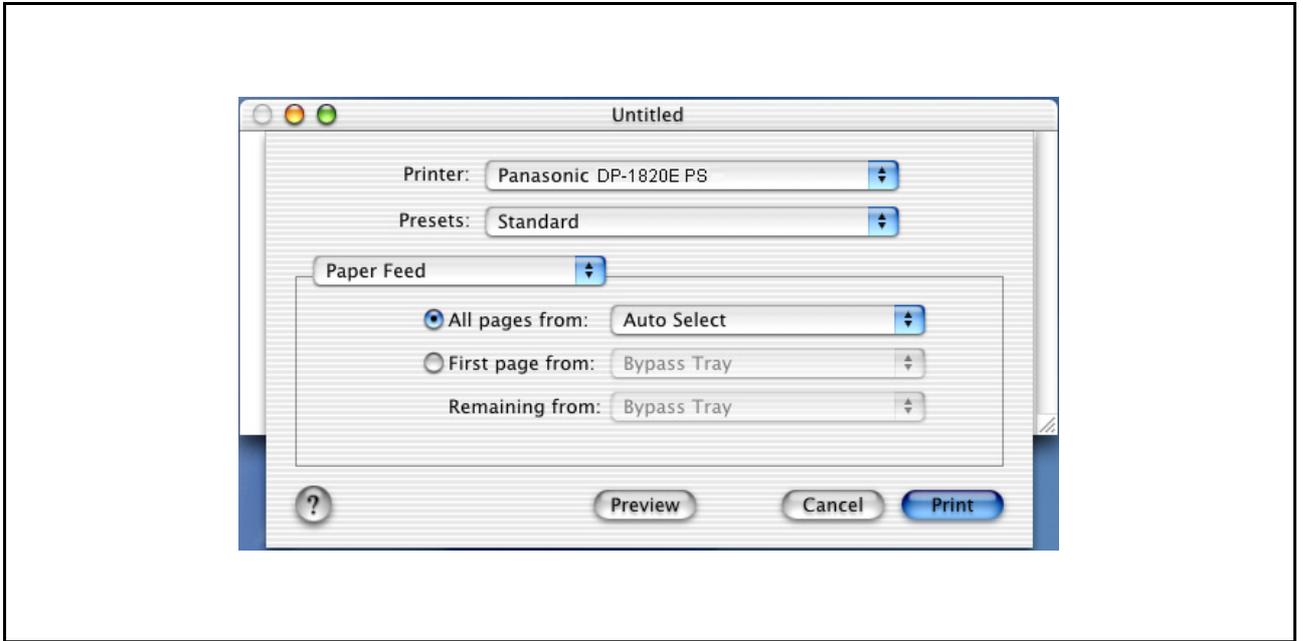
Save as File / Format

Select to save your document as a file. You can specify the file format. The document will not be send to the printer.

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

Paper Feed Menu



All pages from / First page from

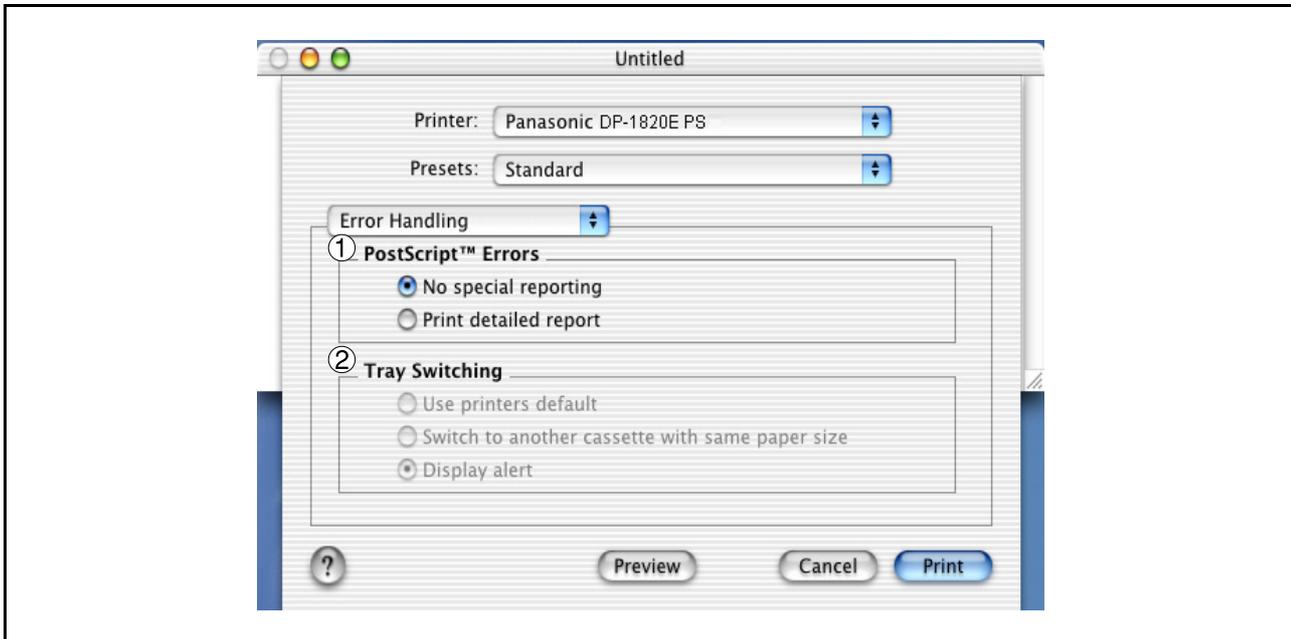
Specify where the paper you want to use is located in the device. If you choose Auto Select, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

- Note:**
1. If no paper size match is found, the printer drive will select the Tray 1. (DP-180/190)
 2. If no paper size match is found, the printer drive will select the Bypass Tray. (DP-1520P/1820P/1820E/2330/3030/3530/4530/6030)

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

Error Handling Menu



1. PostScript Errors

Specifies how to send PostScript error information with every document that you print.

2. Tray Switching

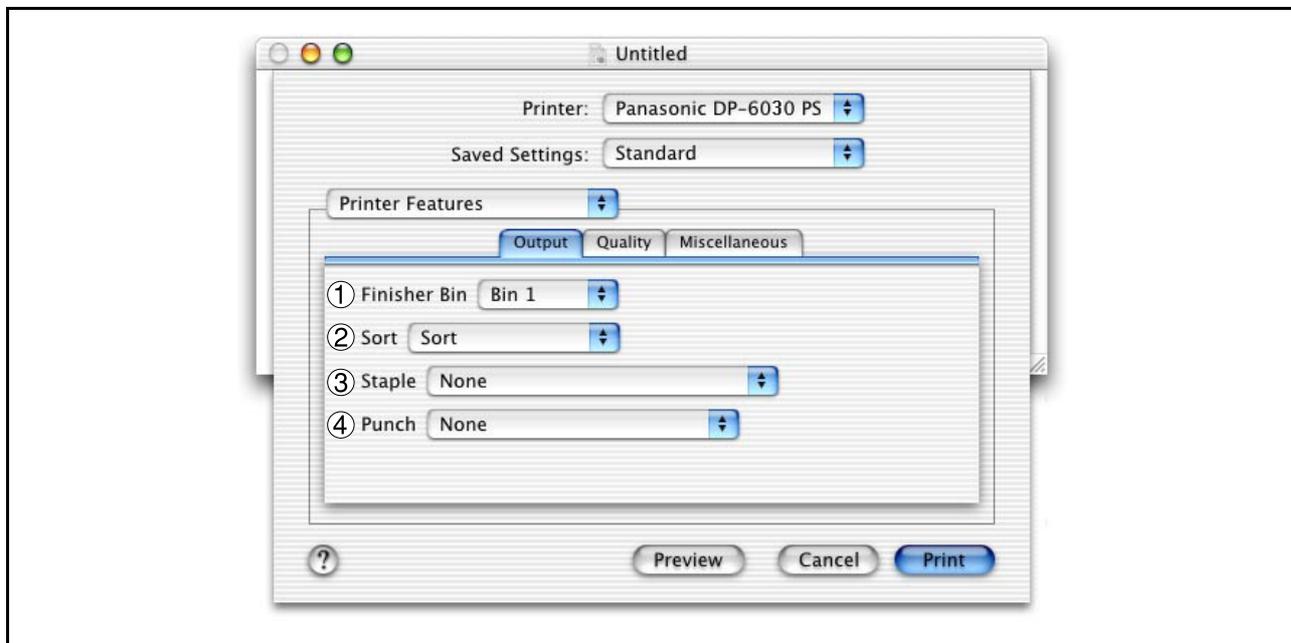
For uninterrupted printing, this setting allows automatic tray switching to another tray with same paper size, when the paper runs out of selected tray.

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

Printer Features Menu

Output Tab:



1. Finisher Bin/Output Tray (For DP-2330/3030/3530/4530/6030 only)

Specifies which output bin to use for your printed document. Some printer models have more than one output bin you can use for sorting your documents.

2. Sort

Select whether to Stack or Sort when printing multiple copies.

Note: Paper must be loaded into the machine in both directions when using the Rotate Stack and Rotate Sort functions (i.e. Letter and Letter-R, A4 and A4-R).

3. Staple

Select the staple position. Available if the optional Finisher (DA-FS300, FS330, FS355, FS600 or FS605) is installed.

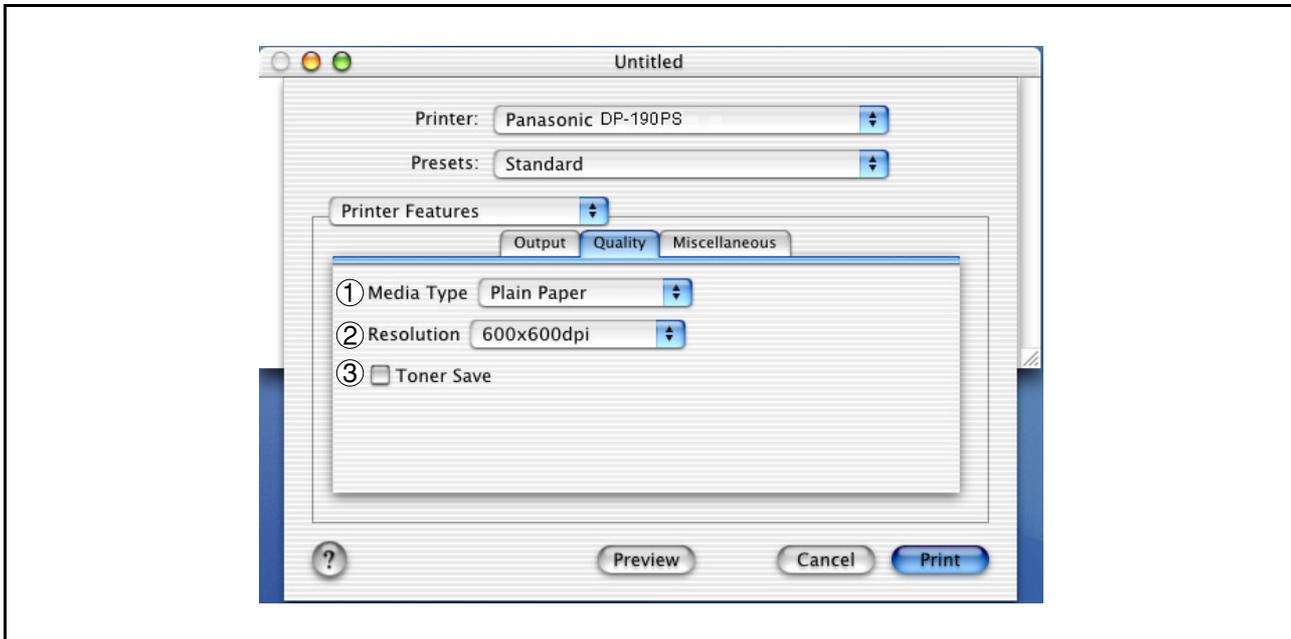
4. Punch (For DP-3530/4530/6030 only)

Select the punch position. Available if the optional Punch Unit is installed.

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

Quality Tab:



1. Media Type

Select the paper type.

Note: If selecting other than **Plain Paper** for the **Media Type**, the printer driver will select the **Bypass Tray** if **Auto Select** was selected as the **All pages from:** within the **Paper Feed** Menu (see page 104).

2. Resolution

Select the resolution you want for printing (300/600/1200dpi Enhanced).

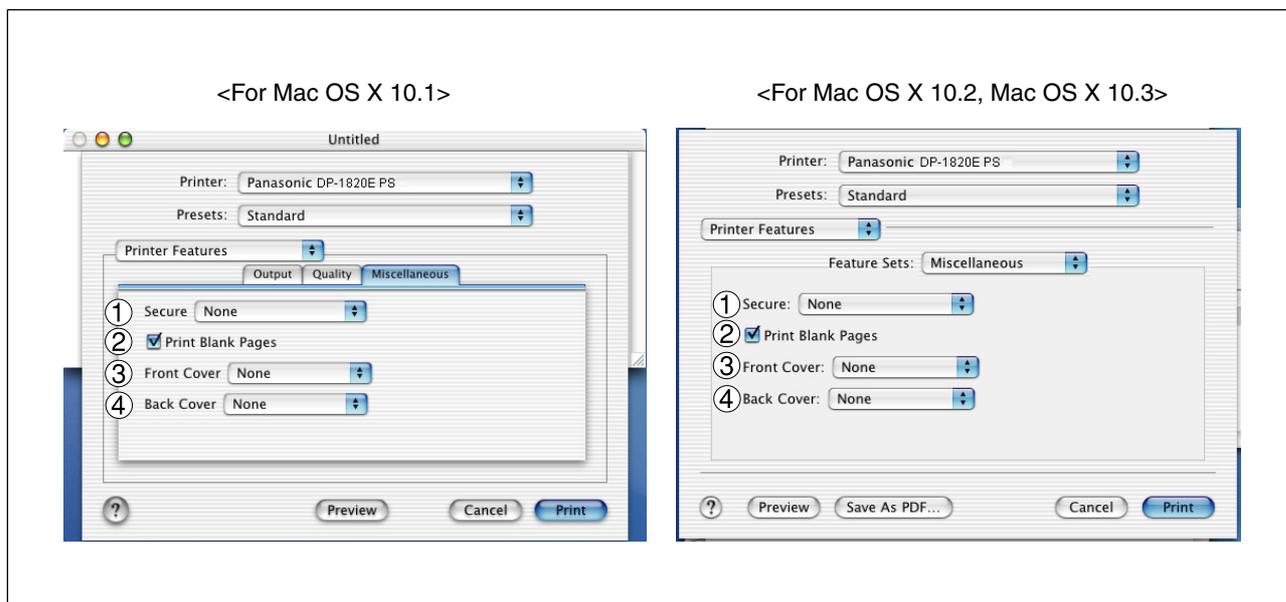
3. Toner Save (For DP-180/190 only)

This setting saves toner by reducing its consumption, and it is cost-effective when printing many draft copies prior to the final document.

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

Miscellaneous Tab: (DP-180/190/1520P/1820P/1820E)



1. Secure

Select Mailbox or Secure Mailbox if storing the print data into the mailbox of the machine. Available if the optional Hard Disk Drive Unit (DA-HD18/HD19/HD30/HD60) is installed.

Note:

1. The PS Driver Security Utility must be installed in order to use the user ID password.
2. DA-HD18: For DP1520P/1820P/1820E; DA-HD19: For DP-180/190; DA-HD30: For DP-2330/3030; DA-HD60: For DP-3530/4530/6030.

2. Print Blank Pages

Select whether the blank pages are printed or not.

3. Front Cover Page

Select to insert a blank page as a Front Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

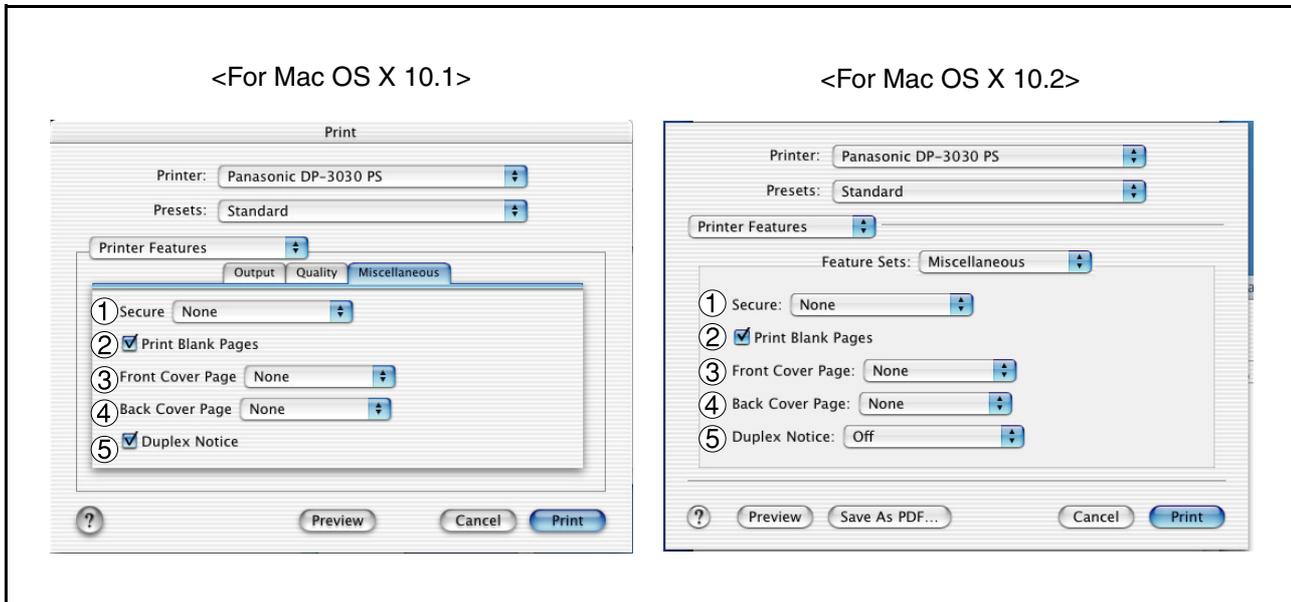
4. Back Cover Page

Select to insert a blank page as a Back Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

Miscellaneous Tab: (DP-2330/3030/3530/4530/6030)



1. Secure

Select the Mailbox or Secure Mailbox if storing the print data into the mailbox of the machine. Available if the optional Hard Disk Drive Unit (DA-HD30/HD60) is installed.

Note: The PS Driver Security Utility must be installed in order to use the user ID password.

2. Print Blank Pages

Select whether the blank pages are printed or not.

3. Front Cover Page

Set to insert a blank page as the Front Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

4. Back Cover Page

Set to insert a blank page as the Back Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

5. Duplex Notice (For DP-2330/3030 only)

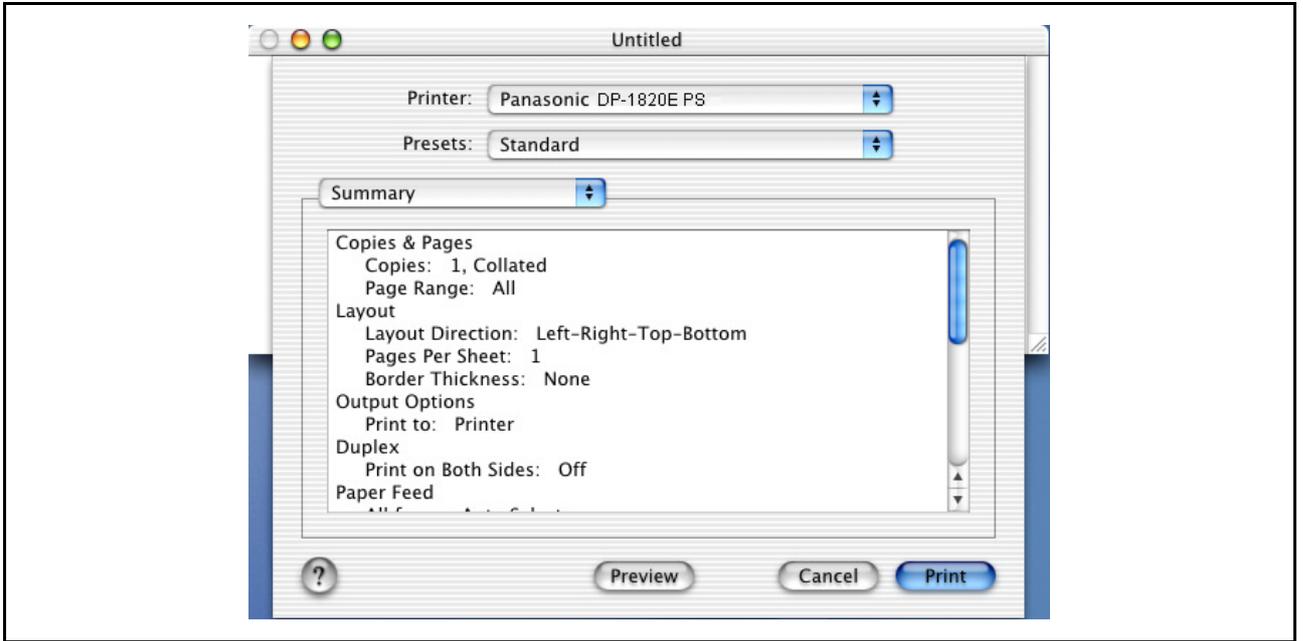
Check whether "2-Sided Print" is printed on the footer of 1st page when printing with 2-Sided Page Style.

Select the binding side (Long Edge/Short Edge) if using on Mac OS X 10.2/10.3.

Configuring the Printer Driver Settings (Macintosh)

Mac OS X

Summary Menu

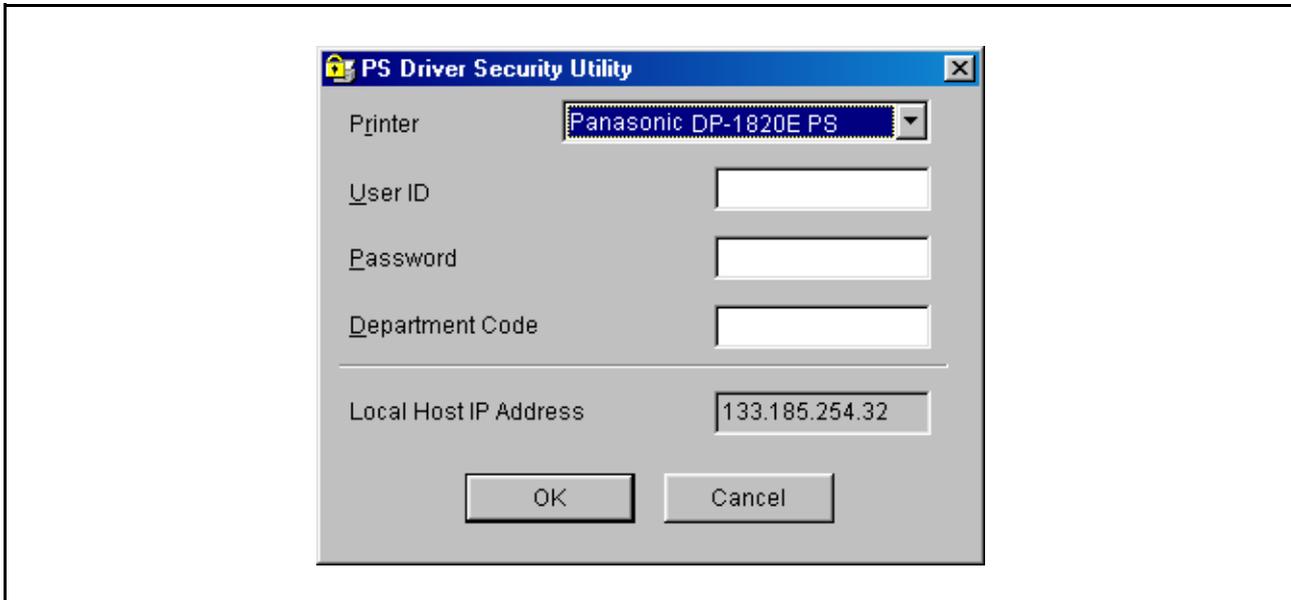


Functions and settings of the printer are displayed.

Configuring the PS Driver Security Utility

Windows 98/Me/NT/2000/XP/Server 2003

Selecting **Panasonic** → **PS Printer Driver** → **PS Driver Security Utility** from Programs on the Start menu.



- **Printer**
Select the printer.
- **User ID**
Input the user ID (8-digit number maximum) to be used for Mailbox or Secure Mailbox.
- **Password**
Input the password (4-digit number) to be used for Secure Mailbox.
- **Department Code**
Input the department code (8-digit number maximum) to be used by the accounting manager.
- **Local Host IP Address**
Displays the IP address where notification of completion is to be sent.
- **OK**
Stores the input values and closes the utility.
- **Cancel**
Cancels the input values and closes the utility.

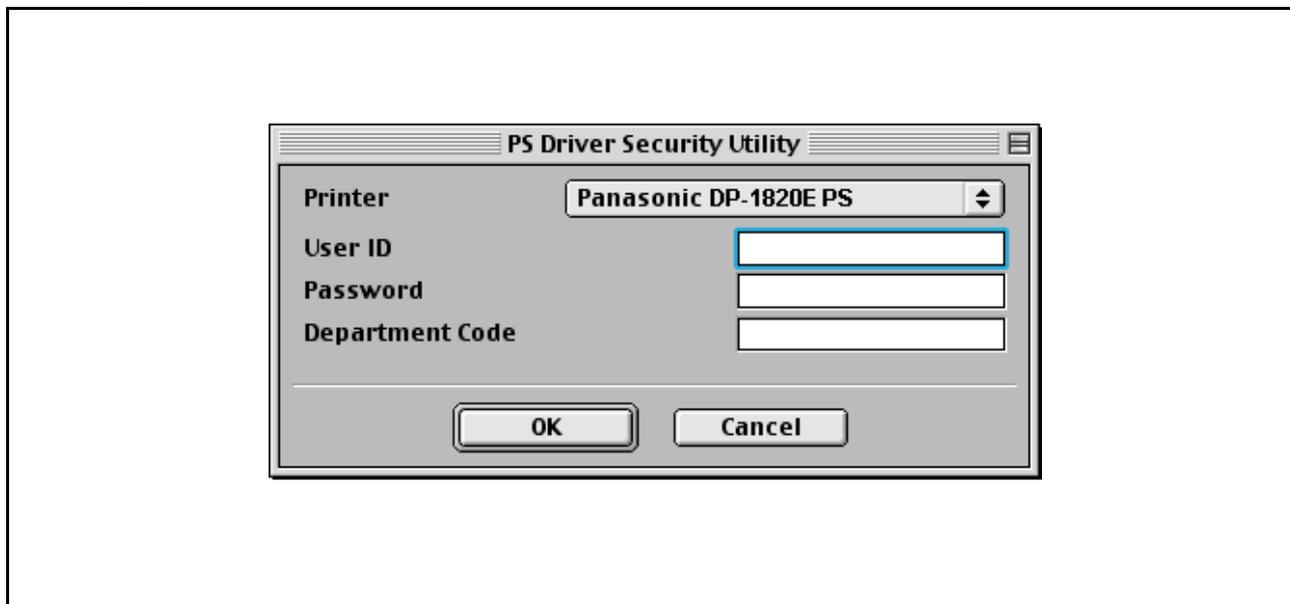
NOTE

1. The department code must be input for customers for which charge management is to be performed using an accounting management application.
2. <For Windows 98/Windows Me users>
When the setup is completed, a message is displayed prompting you to restart your PC. Click the button to restart your PC.
After rebooting your PC, re-configure the Device Options Tab settings (see page 61) because the default settings are restored.

Configuring the PS Driver Security Utility

Mac OS 8.6/9.x/X

If you are using Mac OS X, use the PS Driver Security Utility to change the setting before adding the printer. If you have already added the printer, delete it, change the setting using the PS Driver Security Utility, then add the printer.



- **Printer**
Select the printer.
- **User ID**
Input the user ID (8-digit number maximum) to be used for Mailbox or Secure Mailbox.
- **Password**
Input the password (4-digit number) to be used for Secure Mailbox.
- **Department Code**
Input the department code (8-digit number maximum) to be used by the accounting manager.
- **OK**
Stores the input values and closes the utility.
- **Cancel**
Cancels the input values and closes the utility.

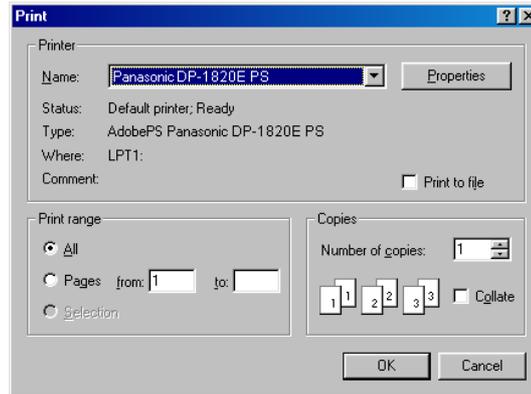
NOTE

1. The department code must be input for customers for which charge management is to be performed using an accounting management application.

Printing from Windows Applications

If the printer driver is installed properly and a printer is selected as the default printer in the printer setup, printing can be accomplished from any Windows application with simple operations.

Printing from most Windows applications, select **File** menu > **Print**, the Print dialog box appears.



• Printing

After selecting the page range to be printed and the number of copies, click the **OK** button to start printing.

While documents are being printed, a printer icon appears in the System Tray near the clock on the bottom right hand corner of the screen. The icon disappears when printing is completed.

You may double-click on the printer indicator in the System Tray to open and verify the details of the print queue in the spooler.

• User Settings

In the Print dialog box, click the **Properties...** button (upper-right corner), the printer properties window appears.

The appropriate operating system shows different properties in the window.

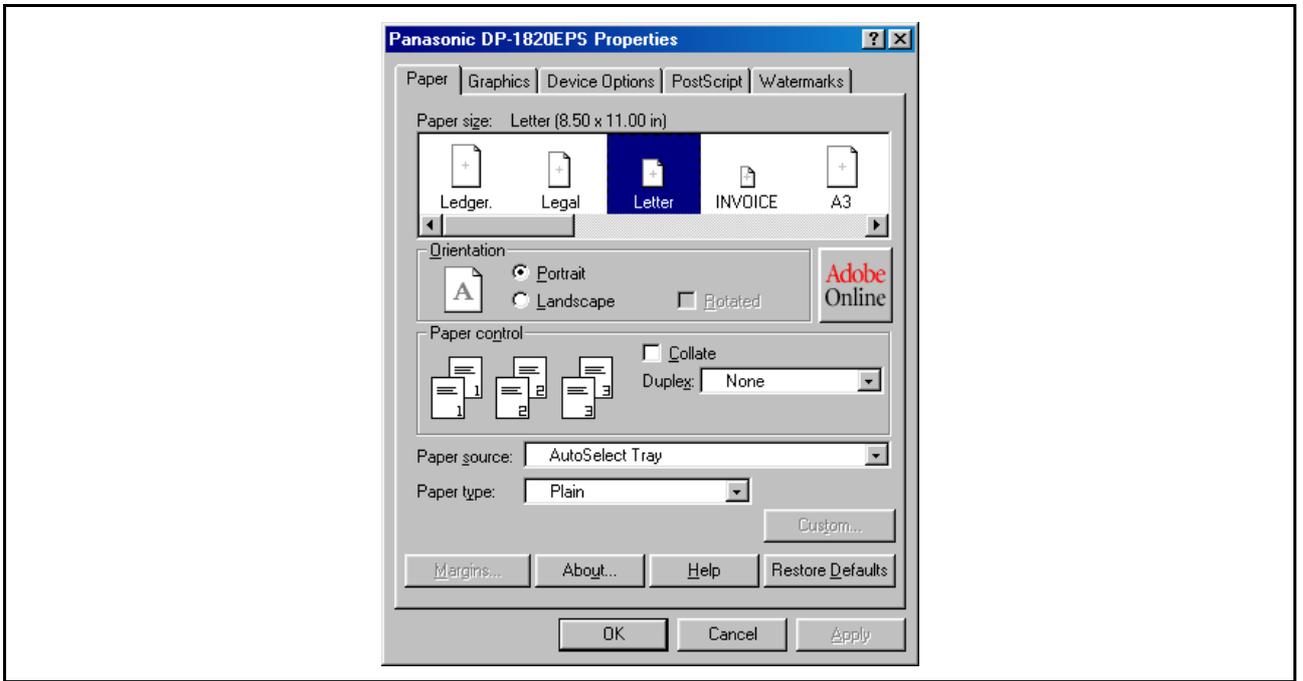
NOTE

1. Follow the steps below to set a default printer:
 - a) Click the **Start** button and select **Printers** in the **Settings** menu or **Printers Fases** for Windows XP/Windows Server 2003.
 - b) Select the printer icon in the window and select **[Set As Default]** in popup menu by right-clicking it. Then the check mark is displayed.

Printing from Windows Applications

Windows 98/Windows Me

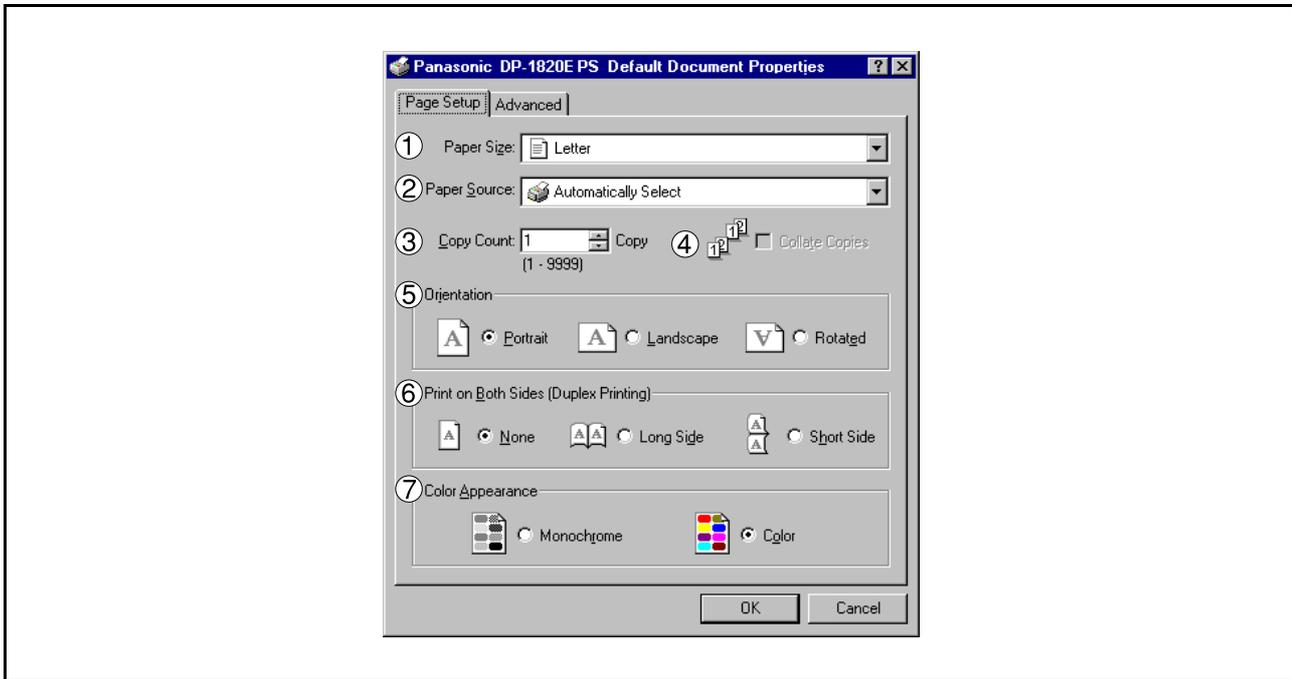
Paper Tab



Refer to "Configuring the Printer Driver Settings" for details on settings (see page 57).

Windows NT 4.0 (User)

Page Setup Tab



1. Paper Size

Select a document size.

2. Paper Source

Specify where the paper you want to use is located in the device. If you choose **Automatically Select**, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

Note: 1. If no paper size match is found, the printer drive will select the Tray 1. (DP-180/190)
2. If no paper size match is found, the printer drive will select the Bypass Tray. (DP-1520P/1820P/1820E/2330/3030/3530/4530/6030)

3. Copy Count

Specify the number of copies to be printed.

4. Collate Copies

Select if you wish each set of multiple copies collated when you print them. Otherwise, each page is printed in individual groups.

5. Orientation

Select the print orientation (Portrait/Landscape/Rotated).
(The Rotated output is the same as that of Landscape.)

6. Print on Both Sides (Duplex Printing) (For DP-180/190/1820E/2330/3030/3530/4530/6030 only)

Specify whether and how the printer should print the document on both sides of the paper.

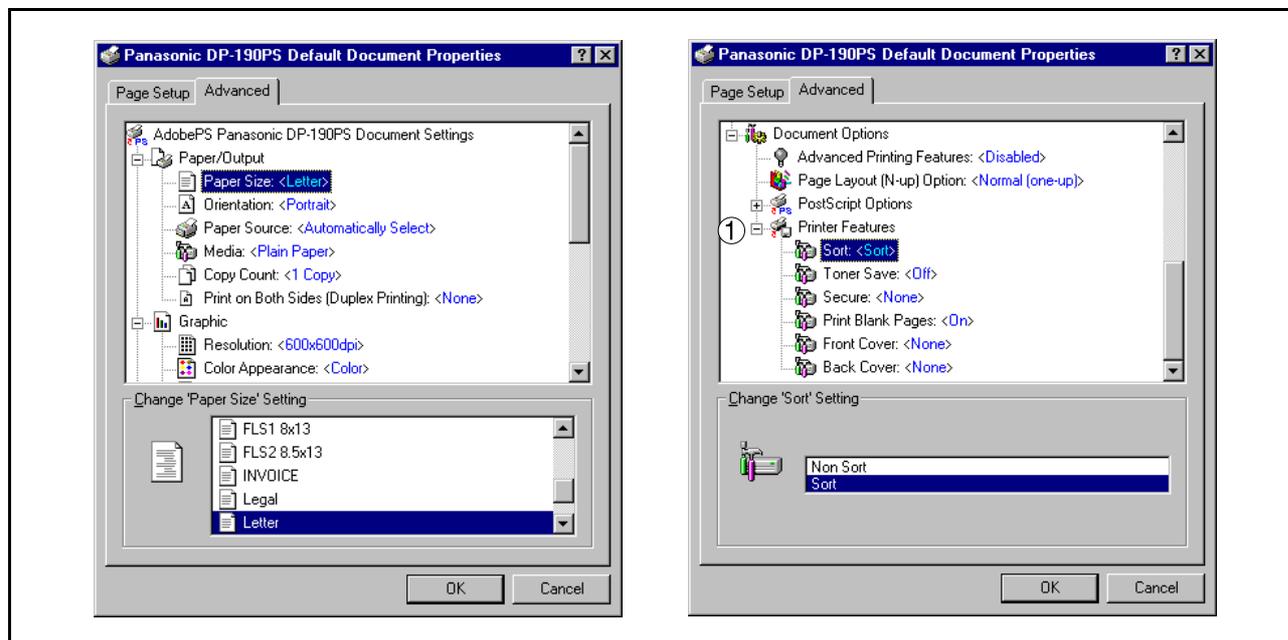
7. Color Appearance

This feature is not available on these machines.

Printing from Windows Applications

Windows NT 4.0 (User)

Advanced Tab



1. Printer Features

- **Sort**

Select whether to Stack or Sort when printing multiple copies.

Note: Paper must be loaded into the machine in both directions when using the Rotate Stack and Rotate Sort functions (i.e. Letter and Letter-R, A4 and A4-R).

- **Toner Save (For DP-180/190 only)**

This setting saves toner by reducing its consumption, and it is cost-effective when printing many draft copies prior to the final document.

- **Secure**

Select Mailbox or Secure Mailbox if storing the print data into the mailbox of the machine. Available if the optional Hard Disk Drive Unit (DA-HD18/HD19/HD30/HD60) is installed.

Note: 1. The PS Driver Security Utility must be installed in order to use the user ID password.

2. DA-HD18: For DP1520P/1820P/1820E; DA-HD19: For DP-180/190;
DA-HD30: For DP-2330/3030; DA-HD60: For DP-3530/4530/6030.

- **Print Blank Pages**

Select whether the blank pages are printed or not.

- **Tray Switching (For DP-2330/3030/3530/4530/6030 only)**

For uninterrupted printing, this setting allows automatic tray switching to another tray with same paper size, when the paper runs out of selected tray.

- **Front Cover Page**

Select to insert a blank page as a Front Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

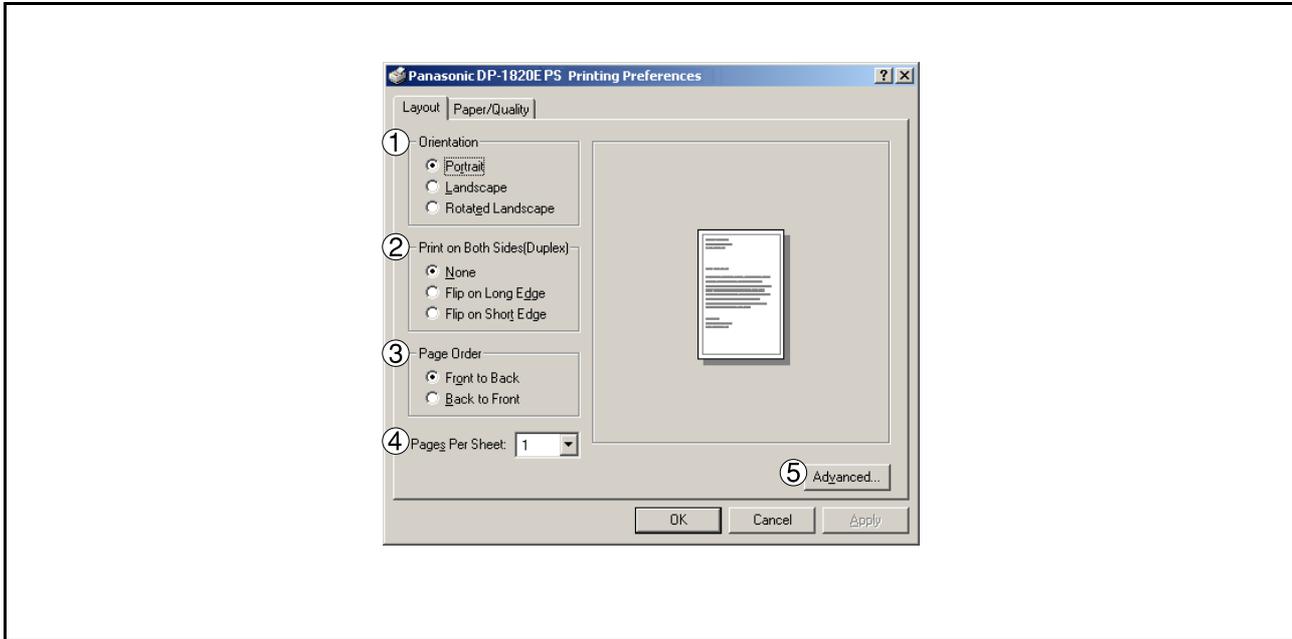
- **Back Cover Page**

Select to insert a blank page as a Back Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

Printing from Windows Applications

Windows 2000/Windows XP/Windows Server 2003 (User)

Layout Tab



1. Orientation

Select the print orientation (Portrait/Landscape/Rotated).
(The Rotated output is the same as that of Landscape.)

2. Print on Both Sides (Duplex) (DP-180/190/1820E/2330/3030/3530/4530/6030 only)

Specify whether and how the printer should print the document on both sides of the paper.

3. Page Order

Specify page order when printing multiple pages.

4. Pages Per Sheet

Specify the number for printing multiple documents on a single sheet of paper.

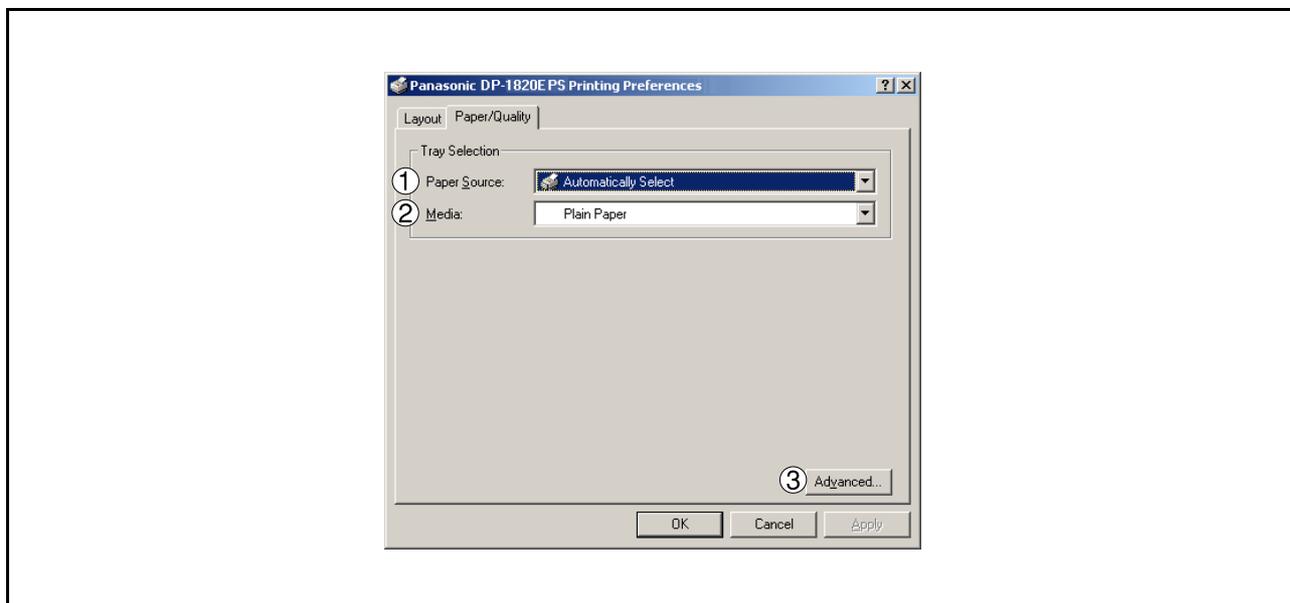
5. Advanced... button

Specifies advanced printer settings and options. Refer to "Windows 2000/Windows XP/Windows Server 2003 (Administrator)" (See page 84).

Printing from Windows Applications

Windows 2000/Windows XP/Windows Server 2003 (User)

Paper/Quality Tab (DP-180/190/1520P/1820P/1820E)



1. Paper Source

Specify where the paper you want to use is located in the device. If you choose **Automatically Select**, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

Note:

1. If no paper size match is found, the printer drive will select the Tray 1. (DP-180/190)
2. If no paper size match is found, the printer drive will select the Bypass Tray. (DP-1520P/1820P/1820E)

2. Media

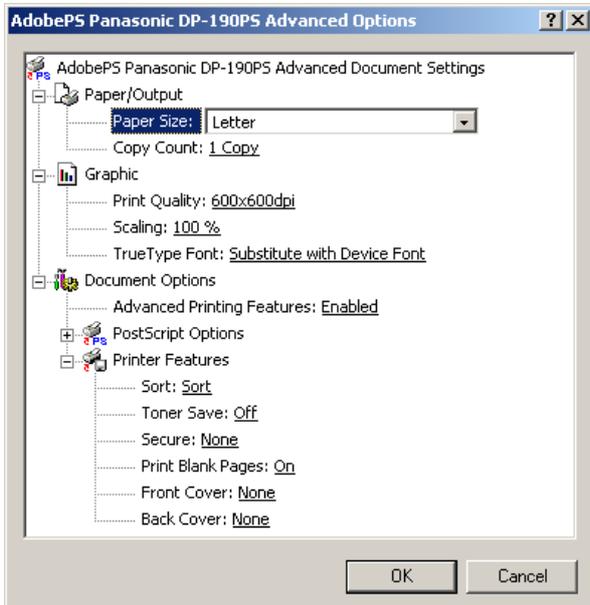
Select the paper type.

Note: If selecting other than **Plain Paper** for the **Paper Source**, the printer driver will select the **Bypass Tray** if **Automatically Select** was selected as the **Paper source** within the **Paper/Quality** Tab.

Windows 2000/Windows XP/Windows Server 2003 (User)

3. **Advanced...** button

Specifies advanced printer settings and options.



<Printer Features>

• **Sort**

Select whether to Stack or Sort when printing multiple copies.

Note: Paper must be loaded into the machine in both directions when using the Rotate Stack and Rotate Sort functions (i.e. Letter and Letter-R, A4 and A4-R).

• **Toner Save (For DP-180/190 only)**

This setting saves toner by reducing its consumption, and it is cost-effective when printing many draft copies prior to the final document.

• **Secure**

Select Mailbox or Secure Mailbox if storing the print data into the mailbox of the machine. Available if the optional Hard Disk Drive Unit (DA-HD18/HD19/HD30/HD60) is installed.

Note: 1. The PS Driver Security Utility must be installed in order to use the user ID password.
2. DA-HD18: For DP1520P/1820P/1820E; DA-HD19: For DP-180/190;
DA-HD30: For DP-2330/3030; DA-HD60: For DP-3530/4530/6030.

• **Print Blank Pages**

Select whether the blank pages are printed or not.

• **Tray Switching (For DP-2330/3030/3530/4530/6030 only)**

For uninterrupted printing, this setting allows automatic tray switching to another tray with same paper size, when the paper runs out of selected tray.

• **Front Cover Page**

Select to insert a blank page as a Front Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

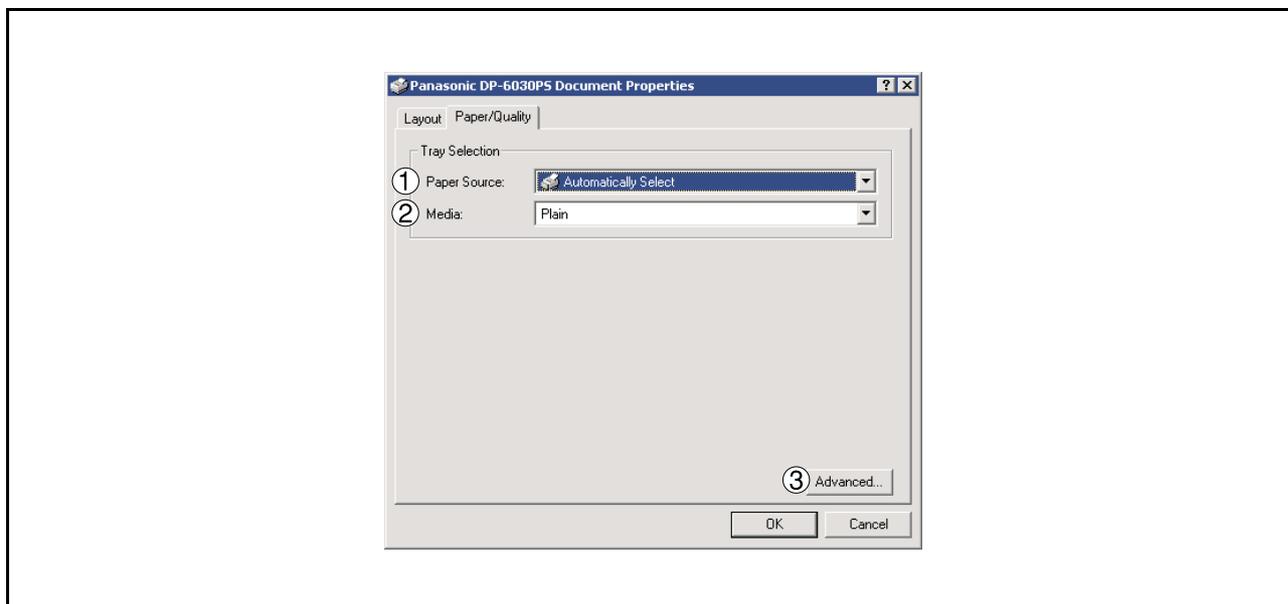
• **Back Cover Page**

Select to insert a blank page as a Back Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

Printing from Windows Applications

Windows 2000/Windows XP/Windows Server 2003 (User)

Paper/Quality Tab (DP-2330/3030/3530/4530/6030)



1. Paper Source

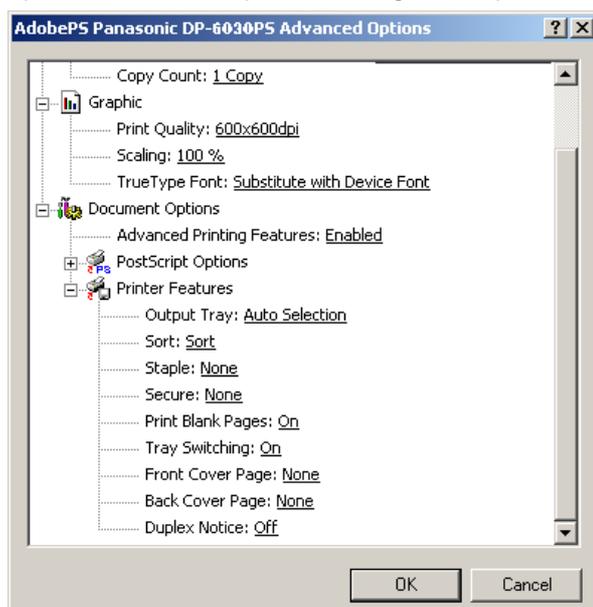
Specify where the paper you want to use is located in the device. If you choose **Automatically Select**, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

2. Media

Select the paper type.

3. button

Specifies advanced printer settings and options.



Windows 2000/Windows XP/Windows Server 2003 (User)

<Printer Features>

- **Output Tray**

Specifies which output bin to use for your printed document. Some printer models have more than one output bin you can use for sorting your documents.

- **Sort**

Select whether to Stack or Sort when printing multiple copies.

- **Staple**

Select the staple position. Available if the optional Finisher (DA-FS300, FS330, FS355, FS600 or FS605) is installed.

- **Secure**

Select the Mailbox or Secure Mailbox if storing the print data into the mailbox of the machine. Available if the optional Hard Disk Drive Unit (DA-HD30/HD60) is installed.

Note: The PS Driver Security Utility must be installed in order to use the user ID password.

- **Print Blank Pages**

Select whether the blank pages are printed or not.

- **Tray Switching**

Allow the paper to be fed continuously if the same size of paper is loaded in another paper tray (Auto Tray Switching). If not selected, the machine will stop if paper runs out in the chosen paper tray.

- **Front Cover Page**

Set to insert a blank page as the Front Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

- **Back Cover Page**

Set to insert a blank page as the Back Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

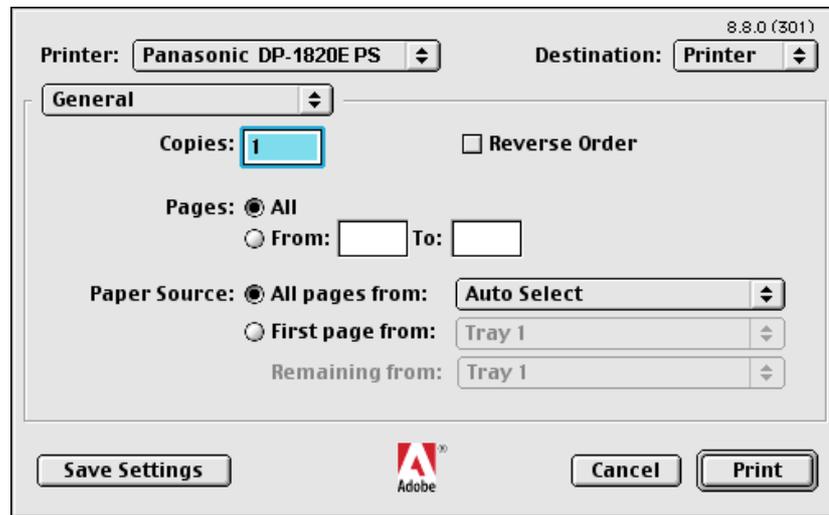
- **Duplex Notice (For DP-2330/3030 only)**

Check whether "2-Sided Print" is printed on the footer of 1st page when printing with 2-Sided Page Style.

Printing from Macintosh Applications

If the printer driver is installed properly, printing can be accomplished from any Macintosh application with simple operations.

Printing from most Macintosh applications, select **File** menu > **Print**, the Print dialog box appears.



- **Printing**

After selecting the page range to be printed and the number of copies, click the **Print** button to start printing.

- **Printer Settings**

In print window, you will see a number of titles in the pop-up menu. Refer to "Configuring the Printer Driver Settings" for printer settings (See page 88).

Printing on Network

For sharing a printer by connecting two computers via a crossover cable or using a hub, a connection among computers must be established.

Establishing a connection among computers can be verified by displaying the connected computers in Network Neighborhood on the desktop.

The settings for printer sharing are specified by performing the following steps:

Printer server (PC connected to a printer)

- 1** Install the printer driver on the computer to be connected to the machine.
- 2** Click the **Start** button, select **Settings**, and then click **Printers**.
- 3** Right-click on the desired printer icon and select **[Sharing...]** in the popup menu.
- 4** Select **Shared As** in the properties dialog box.
- 5** Click the button.

Upon completion of the setting, the shape of the icon changes indicating that the printer is shared.

NOTE

1. Refer to the manual for the network card and Windows users' guide for connections among computers.
2. On Windows 98/Windows Me, a computer connected to a printer must be set up to allow printer sharing by performing the following operations:
 - a) Double-click on **Network** in control panel, and then click button in the **Network Configuration** tab.
 - b) Check **[I want to be able to allow others to print to my printer(s).]** in the File and Print Sharing dialog box.

Printing on Network

Remote (PC that uses another computer's printer)

- 1** Click the **Start** button, select **Settings**, and then click **Printers**.
- 2** Double-click **Add Printer** in the printers folder. Add Printer Wizard appears.
Click the button.
- 3** Select **Network Printer**.
Click the button.
- 4** Specify the other computer's printer by entering the network path.

Then, complete the installation following instructions of the Add Printer Wizard.

The operations above enables output from the remote computer to a printer connected to the printer server.

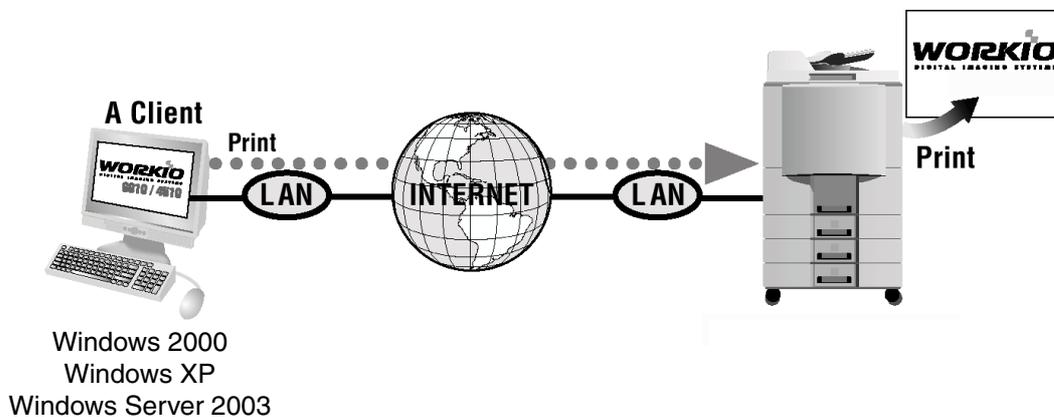
Internet Printing Protocol (IPP) Printing

General Description

Prints documents from a machine located in a remote area via the Internet without its access being blocked by a proxy server. This feature is only available on the Windows 2000, Windows XP or Windows Server 2003.

Compatible Models

- DP-1520P/1820P/1820E with PCL Printer Module (DA-PC180) or PS Printer Module (DA-MC180)
- DP-180/190 with PCL Printer Module (DA-PC188) or PS Printer Module (DA-MC188)
- DP-2310/3010 with PCL Printer Module (DA-PC300) or PS Printer Module (DA-MC300)
- DP-2330/3030 with PCL Printer Module (DA-PC301) or PS Printer Module (DA-MC301)
- DP-3510/3520/4510/4520/6010/6020 with PCL Printer Module (DA-PC600/PC601) or PS Printer Module (DA-MC600/601)
- DP-3530/4530/6030 with PCL Printer Module (DA-PC602) or PS Printer Module (DA-MC602)
- UF-9000 with PCL Printer Module (DA-PC190) or PS Printer Module (DA-MC190)



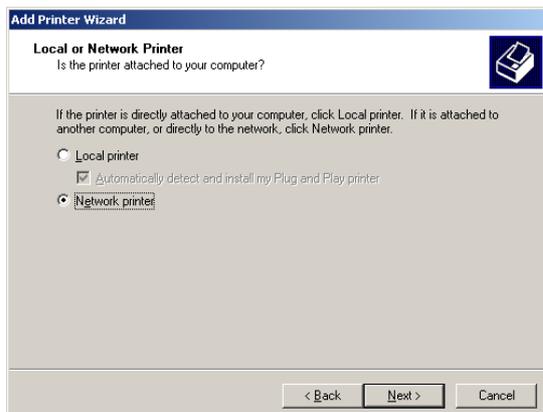
Setting the IPP Printing

1

Verify whether your PC is connected to the Internet or to the Intranet.

Open the **Add Printer Wizard**.

2



Select the **Network printer** and click the

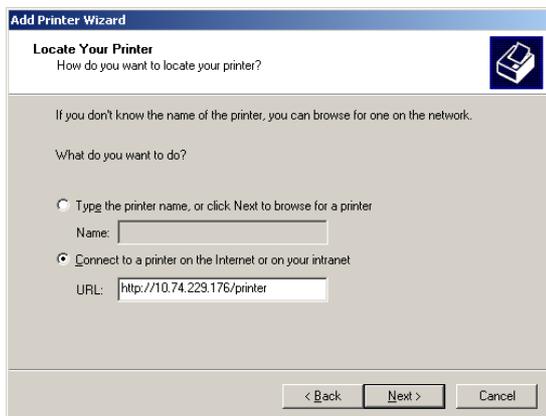
Next button.

Continued on the next page...

Internet Printing Protocol (IPP) Printing

Setting the IPP Printing

3



Select **Connect to a printer on the Internet or on your Intranet** and type the IP address of the remote machine and **/printer** in the URL window. (e.g. http://10.74.229.176/printer)

Click the **Next** button.

4

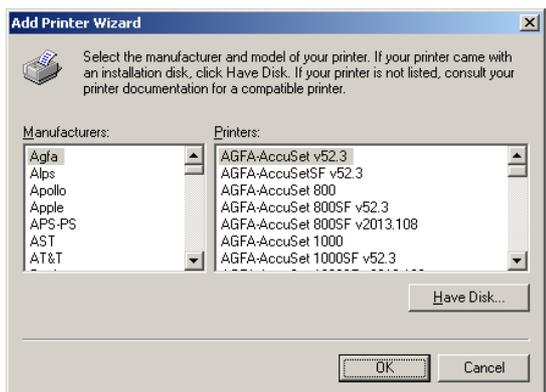


<Windows 2000 only>

Click the **OK** button if this message is shown.

If not, skip to Step 11.

5



1. Insert the CD-ROM included with the Option.

2. Click the **Have Disk...** button.

6

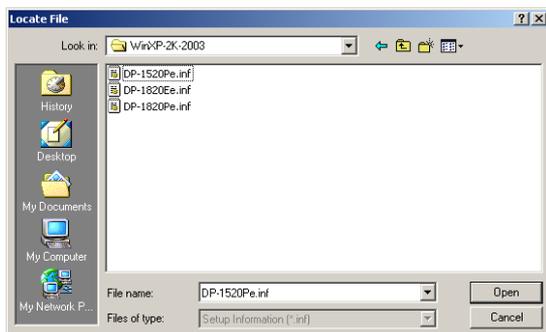


The **Install From Disk** dialogue box appears.

Click the **Browse...** button.

D:\English\PCL\Driver\WinXP-2K-2003
(where "D" is your CD-ROM drive).

7



Select the remote machine.

Click the **Open** button.

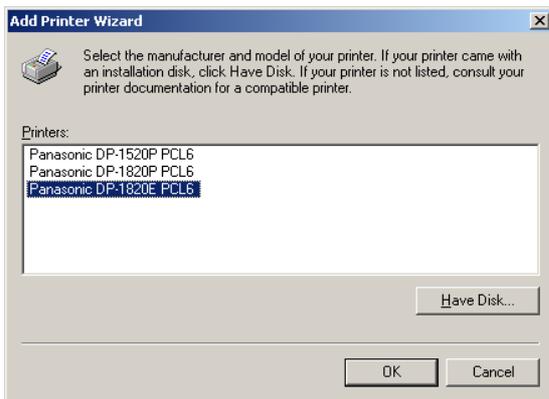
Setting the IPP Printing

8



Click the button.

9



Select the remote machine.

Click the button.

10



<Windows 2000>

Click the button.



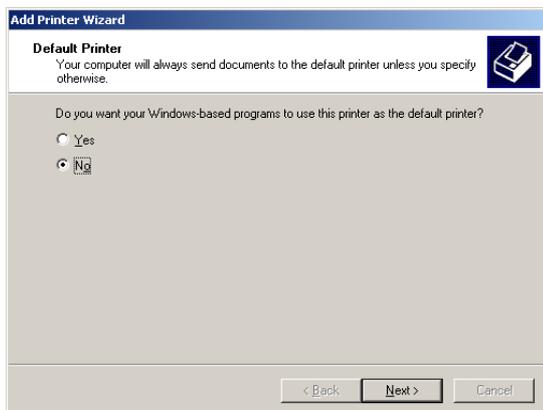
<Windows XP/Windows Server 2003>

Click the button.

Internet Printing Protocol (IPP) Printing

Setting the IPP Printing

11



Select **Yes** if you would like to change your current default printer and click the **Next** button.

12



Click the **Finish** button.

The IPP Printer Driver has been installed, and the Printer icon has been added to the Printer folder.

IPX-SPX Setup Wizard

If you wish to use your machine as a printer on the NetWare environment, install the set-up utility first using the Custom installation menu for the Panasonic Document Management System.

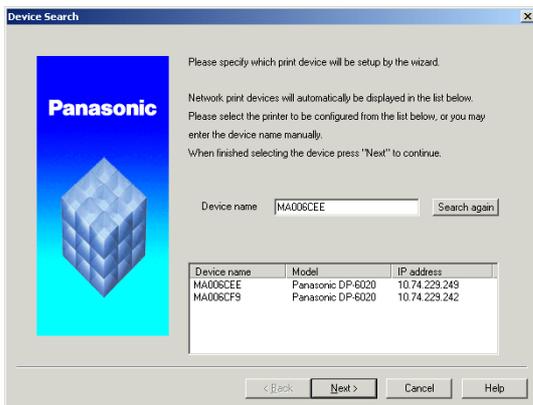
Compatible Models

- DP-2330/3030 with IPX/SPX Printer Module (DA-GC601, PC301, MC301)
- DP-3530/4530/6030 with IPX/SPX Printer Module (DA-GC601, PC602, MC602)

Note: DA-GC601 is not available in the USA and Canada.

Select **Panasonic** → **Panasonic Document Management System** → **IPX-SPX Setup Wizard** from **Programs** on the **Start** menu to activate the utility. To configure your PC for the NetWare environment, follow the procedure below:

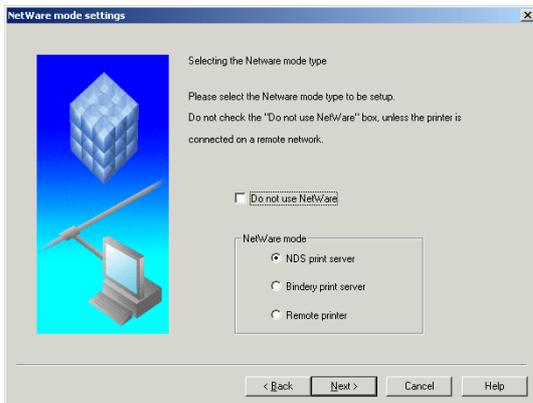
1



The machine(s) that are available on the NetWare environment are shown on the list.

Select the desired machine and click the **Next** button.

2

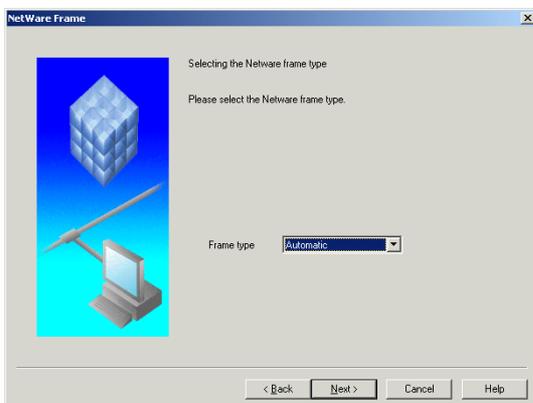


Make sure that the **Do not use NetWare** is not selected.

Select the desired **NetWare mode** and click the **Next** button.

1. **NDS print server**
2. **Bindery print server**
3. **Remote printer**

3

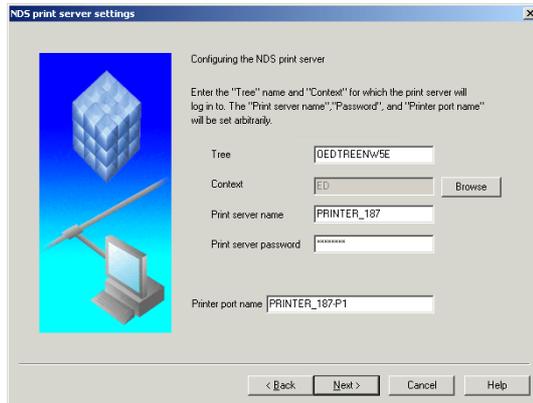


Select the **Frame type** and click the **Next** button.

1. **Automatic**
2. **IEEE 802.2**
3. **IEEE 802.3**
4. **ETHERNET II**
5. **IEEE SNAP**

IPX-SPX Setup Wizard

4a



NDS print server settings

Configuring the NDS print server

Enter the "Tree" name and "Context" for which the print server will log in to. The "Print server name", "Password", and "Printer port name" will be set arbitrarily.

Tree: OEDTREE\WSE

Context: ED

Print server name: PRINTER_187

Print server password: [REDACTED]

Printer port name: PRINTER_187-P1

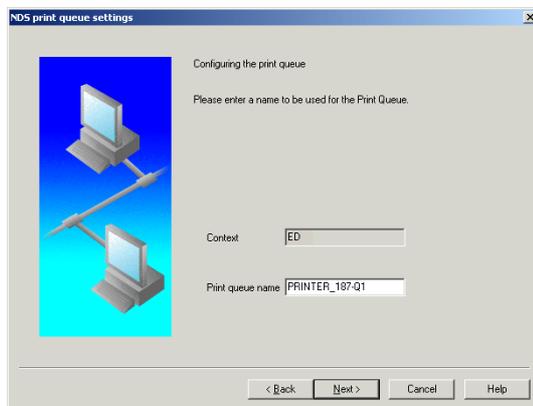
< Back Next > Cancel Help

<For NDS print server>

Set the **Tree**, **Context**, **Print server name**, **Printer server password** and **Print port name** for the NDS Printer Server and click the

button.

Note: Logon to the NetWare using an account with administrator rights.



NDS print queue settings

Configuring the print queue

Please enter a name to be used for the Print Queue.

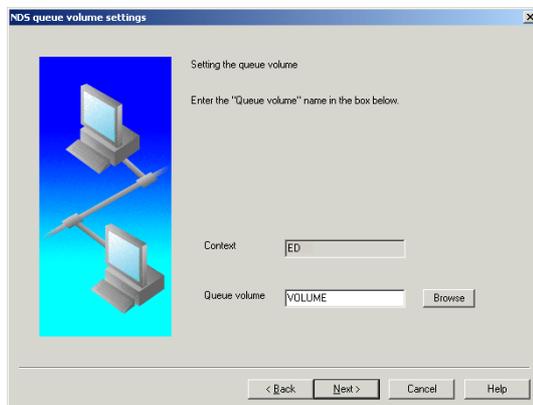
Context: ED

Print queue name: PRINTER_187-Q1

< Back Next > Cancel Help

Enter the **Print queue name** and click the

button.



NDS queue volume settings

Setting the queue volume

Enter the "Queue volume" name in the box below.

Context: ED

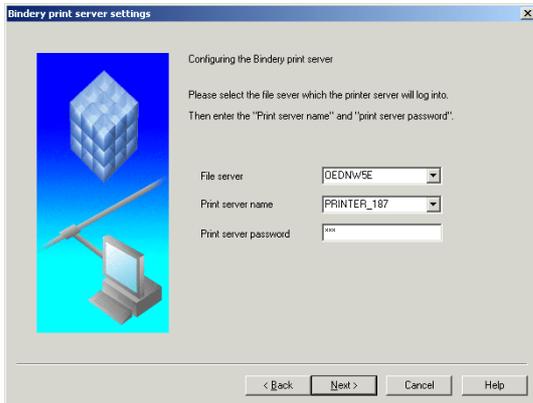
Queue volume: VOLUME

< Back Next > Cancel Help

Enter the **Queue volume** and click the

button.

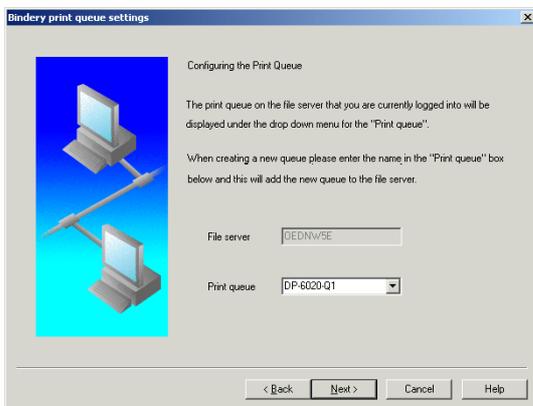
4b



<For Bindery print server>

Set the **File server**, **Print server name** and **Print server password** for the Bindery print server and click the button.

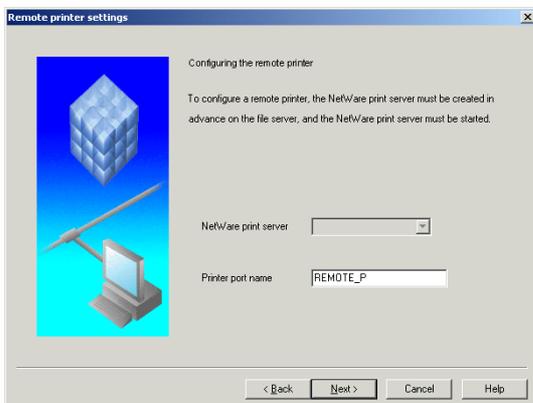
Note: Logon to the NetWare using an account with administrator rights.



Enter the **Print queue** and click the

button.

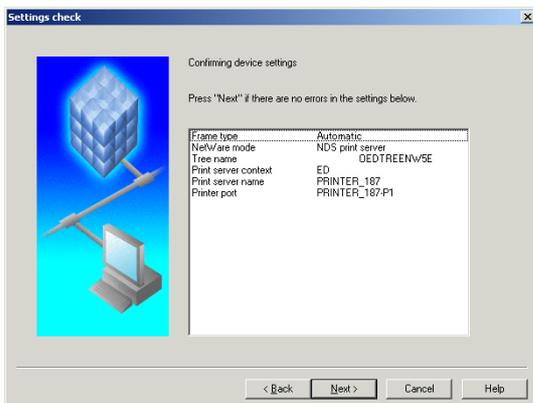
4c



<For Remote printer>

Set the **Printer port name** for the Remote printer and click the button.

5



The settings are shown on the list.

Click the button.

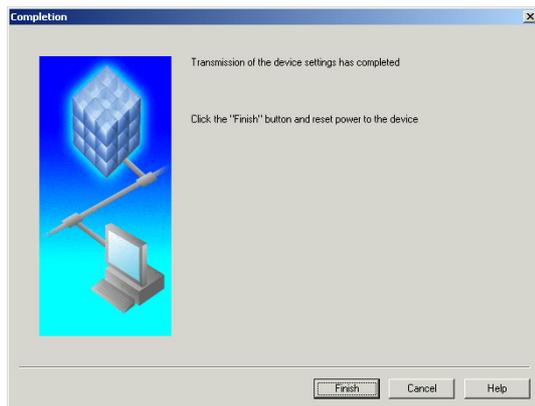
IPX-SPX Setup Wizard

6



Click the button to apply the settings.

7



Click the button.

Specifications

Available Paper Type and Paper Size

■ DP-1520P/1820P/1820E

Paper Type	Paper Size	Print from Paper Tray	Print from Sheet Bypass	Print from Optional Paper Trays	Print by 2-Sided Print Mode
Plain Paper	Ledger	Yes	Yes	Yes	Yes
	Letter	Yes	Yes	Yes	Yes
	Legal	Yes	Yes	Yes	Yes
	Invoice	Yes	Yes	Yes	Yes
	FLS1	Yes	Yes	Yes	Yes
	FLS2	Yes	Yes	Yes	Yes
	A3	Yes	Yes	Yes	Yes
	B4	Yes	Yes	Yes	Yes
	A4	Yes	Yes	Yes	Yes
	B5	Yes	Yes	Yes	Yes
A5	Yes	Yes	Yes	Yes	
Transparency	Letter	No	Yes	No	No
	A4	No	Yes	No	No
Label	Letter	No	Yes	No	No
	A4	No	Yes	No	No
Envelope	#9	No	No	No	No
	#10	No	Yes	No	No
	Monarch	No	No	No	No
	DL	No	Yes	No	No
	C5	No	No	No	No

Specifications

Available Paper Type and Paper Size

■ DP-180/190

Paper Type	Paper Size	Print from Paper Tray	Print from Sheet Bypass	Print from 2nd Paper Tray (Optional)	Print by 2-Sided Print Mode
Plain Paper	Letter	Yes	Yes	Yes	Yes
	Legal	Yes	Yes	Yes	Yes
	Invoice	No	Yes	No	No
	FLS1	No	Yes	No	No
	FLS2	No	Yes	No	No
	A4	Yes	Yes	Yes	Yes
	B5	Yes *1	Yes	Yes *1	Yes *1
	A5	Yes *1	Yes	No	No
Thick Paper	Letter	No	Yes	No	No
	Legal	No	Yes	No	No
	Invoice	No	Yes	No	No
	FLS1	No	Yes	No	No
	FLS2	No	Yes	No	No
	A4	No	Yes	No	No
	B5	No	Yes	No	No
	A5	No	Yes	No	No
Cotton Paper	Letter	Yes	Yes	No	No
	Legal	Yes	Yes	No	No
	Invoice	No	Yes	No	No
	FLS1	No	Yes	No	No
	FLS2	No	Yes	No	No
	A4	Yes	Yes	No	No
	B5	Yes *1	Yes	No	No
	A5	Yes *1	Yes	No	No
Transparency	Letter	Yes	Yes	No	No
	A4	Yes	Yes	No	No
Label	Letter	No	Yes	No	No
	A4	No	Yes	No	No
Envelope	#9	No	Yes	No	No
	#10	No	Yes	No	No
	Monarch	No	Yes	No	No
	DL	No	Yes	No	No
	C5	No	Yes	No	No

*1: For DP-180 only

Available Paper Type and Paper Size

■ DP-2330/3030

Paper Type	Paper Size	Print from Paper Tray	Print from Sheet Bypass	Print from Optional Paper Trays	Print with 2-Sided Print Mode
Plain Paper	Ledger	Yes	Yes	Yes	Yes
	Letter	Yes	Yes	Yes	Yes
	Legal	Yes	Yes	Yes	Yes
	Invoice	Yes	Yes	Yes	Yes
	FLS1	Yes	Yes	Yes	Yes
	FLS2	Yes	Yes	Yes	Yes
	A3	Yes	Yes	Yes	Yes
	B4	Yes	Yes	Yes	Yes
	A4	Yes	Yes	Yes	Yes
	B5	Yes	Yes	Yes	Yes
	A5	Yes	Yes	Yes	Yes
Thick Paper	Ledger	No	Yes	No	No
	Letter	No	Yes	No	No
	Legal	No	Yes	No	No
	Invoice	No	Yes	No	No
	FLS1	No	Yes	No	No
	FLS2	No	Yes	No	No
	A3	No	Yes	No	No
	B4	No	Yes	No	No
	A4	No	Yes	No	No
	B5	No	Yes	No	No
	A5	No	Yes	No	No
Transparency	Letter	No	Yes	No	No
	A4	No	Yes	No	No
Label	Letter	No	Yes	No	No
	A4	No	Yes	No	No

Specifications

Available Paper Type and Paper Size

■ DP-3530/4530/6030

Paper Type	Paper Size	Print from Paper Tray	Print from Sheet Bypass	Print from Optional Paper Trays	Print with 2-Sided Print Mode
Plain Paper	Ledger	No	Yes	Yes	Yes
	Letter	Yes	Yes	Yes	Yes
	Legal	No	Yes	Yes	Yes
	Invoice	No	Yes	Yes	Yes
	FLS1	No	Yes	Yes	Yes
	FLS2	No	Yes	Yes	Yes
	A3	No	Yes	Yes	Yes
	B4	No	Yes	Yes	Yes
	A4	Yes	Yes	Yes	Yes
	B5	No	Yes	Yes	Yes
	A5	No	Yes	Yes	Yes
Thick Paper	Ledger	No	Yes	No	No
	Letter	No	Yes	No	No
	Legal	No	Yes	No	No
	Invoice	No	Yes	No	No
	FLS1	No	Yes	No	No
	FLS2	No	Yes	No	No
	A3	No	Yes	No	No
	B4	No	Yes	No	No
	A4	No	Yes	No	No
	B5	No	Yes	No	No
	A5	No	Yes	No	No
Transparency	Letter	No	Yes	No	No
	A4	No	Yes	No	No
Label	Letter	No	Yes	No	No
	A4	No	Yes	No	No

Available Paper Weight and Capacity

■ DP-1520P/1820P/1820E

	Paper Type	Print from Paper Tray	Print from Sheet Bypass	Print from Optional Paper Trays	Print with 2-Sided Print Mode
Paper Weights	Plain Paper	16 –24 lb (60 – 90 g/m ²)	15 –34 lb (55 – 133 g/m ²)	16 –24 lb (60 – 90 g/m ²)	17 –24 lb (64 – 90 g/m ²)
Paper Capacity	Plain Paper 20 lb (75 g/m ²)	550 sheets	50 sheets	550 sheets	550 sheets
	Transparency	No	10 sheets	No	No
	Label	No	10 sheets	No	No
	Envelope	No	5 sheets	No	No

■ DP-180/190

	Paper Type	Print from Paper Tray	Print from Sheet Bypass	Print from 2nd Paper Tray (Optional)
Paper Weights	Plain Paper	16 –28 lb (60 –105 g/m ²)	16 –28 lb (60 –105 g/m ²)	16 –28 lb (60 –105 g/m ²)
	Thick Paper	No	29 –44 lb (106 –165 g/m ²)	No
	Envelope	No	24 lb (90 g/m ²)	No
Paper Capacity	Plain Paper 20 lb (75 g/m ²)	250 sheets	1 sheet	550 sheets
	Transparency	20 sheets	1 sheet	No
	Label	No	1 sheet	No
	Envelope	No	1 sheet	No

Specifications

Available Paper Weight and Capacity

■ DP-2330/3030

	Paper Type	Print from Paper Tray	Print from Sheet Bypass	Print from Optional Paper Trays	Print with 2-Sided Print Mode
Paper Weights	Plain Paper	16 –24 lbs. (60 – 90 g/m ²)	15 –24 lbs. (55 – 90 g/m ²)	16 –24 lbs. (60 – 90 g/m ²)	17 –24 lbs. (64 – 90 g/m ²)
	Thick Paper	No	15 –34 lbs. (55 – 130 g/m ²)	No	No
Paper Capacity	Plain Paper 20lbs (75 g/m ²)	550 sheets	50 sheets	550 sheets	--
	Transparency	No	10 sheets	No	No
	Label	No	10 sheets	No	No
	Envelope	No	No	No	No

■ DP-3530/4530/6030

	Paper Type	Print from Paper Tray	Print from Sheet Bypass	Print from Optional Paper Trays	Print with 2-Sided Print Mode
Paper Weights	Plain Paper	16 –24 lbs. (60 – 90 g/m ²)	15 –24 lbs. (55 – 90 g/m ²)	16 –24 lbs. (60 – 90 g/m ²)	17 –24 lbs. (64 – 90 g/m ²)
	Thick Paper	No	15 –35 lbs. (55 – 133 g/m ²)	No	No
Paper Capacity	Plain Paper 20lbs (75 g/m ²)	1550+550 sheets	50 sheets	550 sheets	--
	Transparency	No	10 sheets	No	No
	Label	No	10 sheets	No	No
	Envelope	No	No	No	No

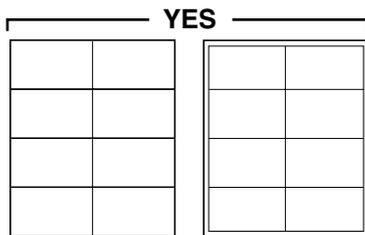
Transparencies and Labels

You may also print on high quality labels and transparencies that are made specifically for Laser printers. We recommend using the following types.

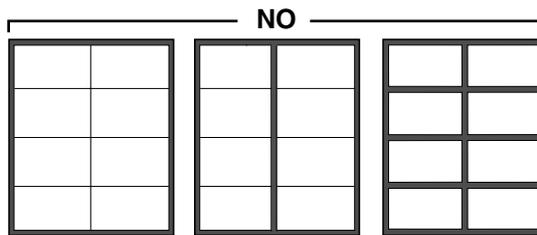
Paper Type	Paper Size	Recommended Type
Transparency	Letter/A4	3M PP2500 (For DP-1520P/1820P/1820E) 3M CG3300 (For DP-180/190) 3M PP2500 (For DP-2330/3030) 3M PP2500 (For DP-3530/4530/6030)
Label	Letter	Avery 5160 – 5163, Avery 5660 – 5663 (For DP-180/190)
	A4	Avery L7159 –L7164 (For DP-180/190)

- To avoid damaging the printer, do not use transparencies made for Inkjet printers.
- Do not use transparencies that have already been fed through the printer once.

Note: The labels must completely cover the backing material as shown below.



Labels cover the entire backing material



The backing material is exposed.

Specifications

Envelopes (For DP-180/190/1520P/1820P/1820E)

It is recommended that you purchase only high quality envelopes with diagonal seams as shown below.

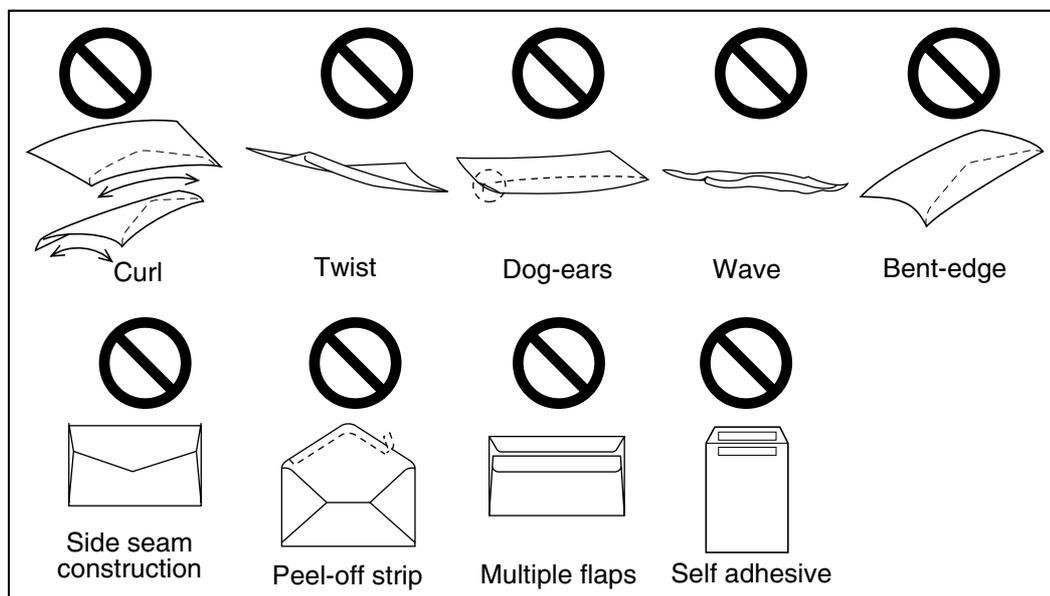


High quality envelopes have the following characteristics:

- A thin, sharply creased leading edge.
- Paper weight of 24 lb (90 g/m²).
- Flat, free of curls, wrinkles, nicks, etc.

It is not recommended that you use envelopes with any of the following characteristics (using these may result in paper jams or print quality problems).

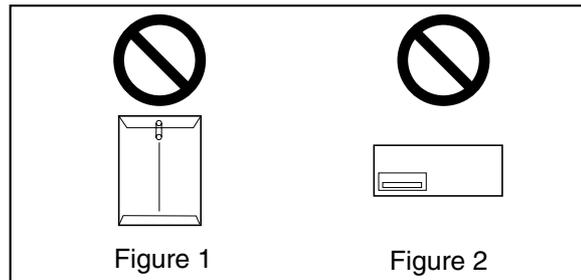
- Irregularly shaped envelopes
- Envelopes with curls, wrinkles, nicks, twists, dog-ears or other damage
- Envelopes with side seam construction
- Highly textured envelopes, or with extremely shiny surfaces
- Envelopes that seal by removing a peel-off strip
- Envelopes with more than one flap to be sealed
- Self-adhesive envelopes
- Envelopes that are baggy or not sharply creased
- Embossed envelopes
- Envelopes that have previously been printed with a laser printer
- Envelopes that have been previously printed inside



Envelopes (For DP-180/190/1520P/1820P/1820E)

Do not attempt to print on any of the following types of envelopes. These may cause damage to your printer.

- Envelopes with clasps, snaps or tie strings (see Figure 1)
- Envelopes with transparent windows (see Figure 2)
- Envelopes that will melt, discolor, scorch, offset or release hazardous emissions when exposed to 200 °C (392 °F) for 0.1 second
- Envelopes that use encapsulated types of adhesive that do not require moistening but rely on pressure to seal them



Always test a sample of the envelopes you are thinking of buying. Confirm that the envelope performs acceptably.

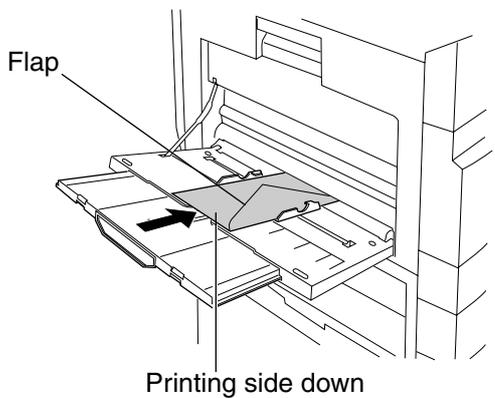
For best printing results

- Avoid printing in high humidity.
High humidity may cause the envelope to curl and pick up excess toner.
High humidity may also cause the envelope to seal.
- Envelope storage is very important. Store them away from moisture and humid air, where they can lay flat and their edges will not be bent or damaged. The humidity should not exceed 70%RH.

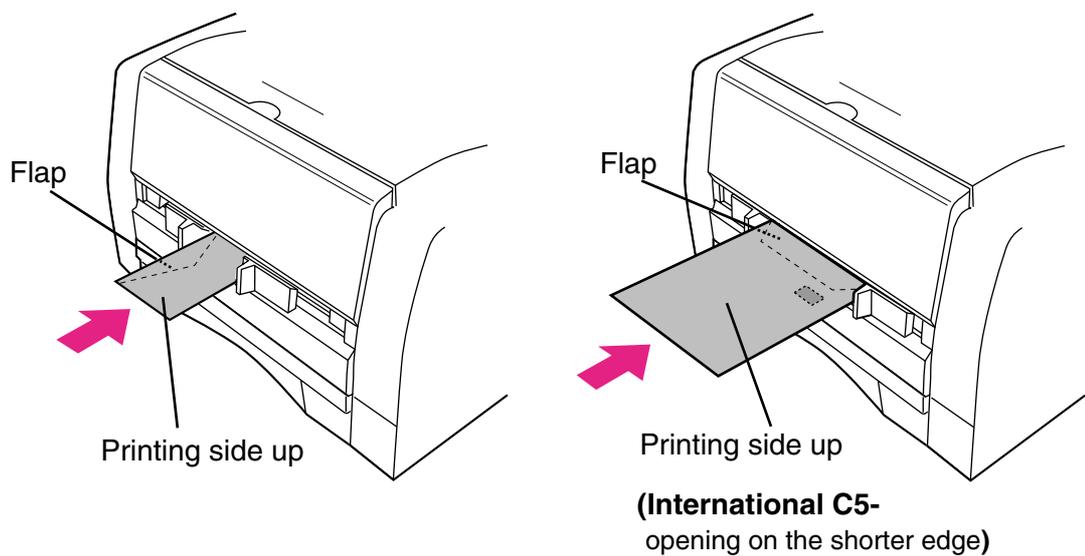
Specifications

Loading the Envelopes (For DP-180/190/1520P/1820P/1820E)

■ DP-1520P/1820P/1820E



■ DP-180/190



Printer Specifications

Printing Speed	DP-1520P	: 15 sheets/minute (A4/Letter size plain paper, simplex printing)
	DP-180	: 18 sheets/minute (A4 size plain paper, simplex printing)
	DP-1820P/1820E	: 18 sheets/minute (A4/Letter size plain paper, simplex printing)
	DP-190	: 19 sheets/minute (A4/Letter size plain paper, simplex printing)
	DP-2330	: 23 sheets/minute (A4 size plain paper, simplex printing)
	DP-3030	: 30 sheets/minute (A4 size plain paper, simplex printing)
	DP-3530	: 35 sheets/minute (A4 size plain paper, simplex printing)
	DP-4530	: 45 sheets/minute (A4 size plain paper, simplex printing)
	DP-6030	: 60 sheets/minute (A4 size plain paper, simplex printing)
Resolution (dots per inch)	300 x 300, 600 x 600, 1200 (Equivalent) x 600	
Interface	USB 1.1 (Except for DP-3530/4530/6030) Parallel Port (For DP-3530/4530/6030 only) Ethernet (10Base-T/100Base-TX)	
Applicable OS	Windows 98, Windows Me, Windows NT 4.0 (With Service Pack 3 or later is required), Windows 2000, Windows XP, Windows Server 2003 Macintosh OS 8.6-9.2.2 (Adobe PS 8.8 or higher), OS X10, OS X10.1, OS X10.2.1, OS X10.3	
Printer Working Memory	20MB (For DP-180/190/1520P/1820P/1820E only) 50MB (For DP-2330/3030/3530/4530/6030 only)	

Troubleshooting

Printing Operation Failure

If the printing operation fails, check the following items first:

- The connection cable (Parallel Printer Cable or Ethernet LAN Cable) is properly connected.
- Power of the device is turned ON.
- Paper is loaded properly in the device.
- An error message is not displayed on the device.

The above points can be verified by printing a test page. Refer to the following pages for the procedures on test page printing:

Windows 98/Windows Me	[General Tab]	(See page 53)
Windows NT 4.0	[General Tab]	(See page 69)
Windows 2000/Windows XP/Windows Server 2003	[General Tab]	(See page 78)

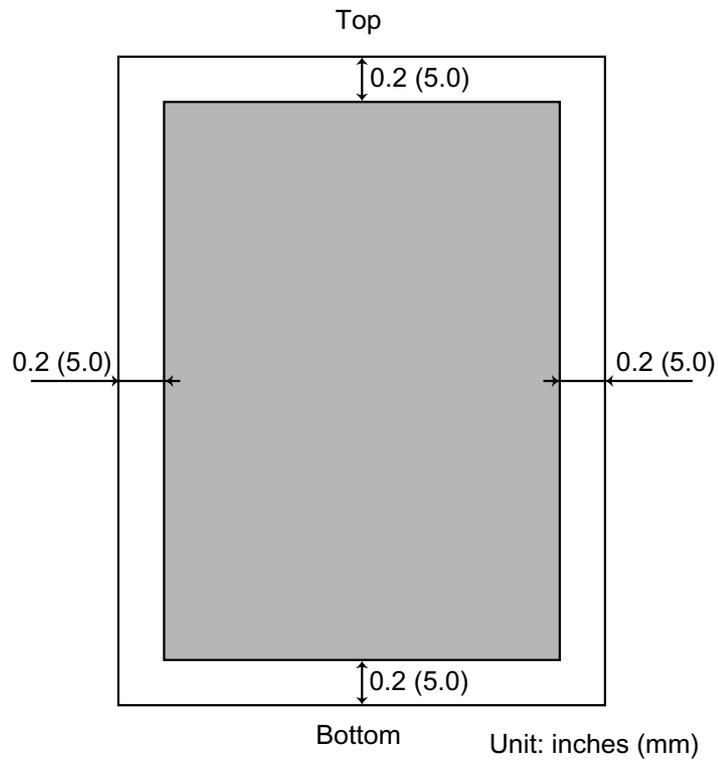
Documents Not Printing Correctly

Problem	Possible Cause / Solution(s)
Characters are not printed in the correct positions or the characters near the edges of the page are missing.	<ul style="list-style-type: none"> • Check and specify the paper size and orientation settings in the printer driver to coincide with the application. • The characters are outside the printing area of the machine.
Incorrect font type.	<ul style="list-style-type: none"> • Check whether the selected font is installed on the PC.
Printing stops in the middle of the run.	<ul style="list-style-type: none"> • Check if there is a Network problem.
Although print data is transferred to your machine, it does not print.	<ul style="list-style-type: none"> • Make sure the printer is online. • Make sure the machine is not in the Shutdown Mode. Press ENERGY SAVER key to return to standby mode. See the Operating Instructions for Copier & Network Scanner for details. • Make sure the USB printer cable is connected properly. • Restore the power if the ON LINE LED is Off even if the USB printer cable is connected.
Printing stops in the middle of the run.	<ul style="list-style-type: none"> • Check whether there is a Network problem.

Appendix

Printing Area

When printing to the device, there is a 0.2 inches (5.0 mm) non-printable margin on all 4 sides.



Font Table

No.	Symbol Set
1	Albertus ‡
2	Albertus Italic ‡
3	Albertus Light ‡
4	AntiqueOlive Bold §
5	AntiqueOlive Compact §
6	AntiqueOlive Italic §
7	AntiqueOlive Roman §
8	Apple Chancery ¨
9	Arial ‡
10	Arial Bold ‡
11	Arial Bold Italic ‡
12	Arial Italic ‡
13	ITC AvantGarde Gothic Book °
14	ITC AvantGarde Gothic Book Oblique °
15	ITC AvantGarde Gothic Demi °
16	ITC AvantGarde Demi Oblique °
17	Bodoni
18	Bodoni Bold
19	Bodoni Bold Italic
20	Bodoni Italic
21	Bodoni Poster
22	Bodoni Poster Compressed
23	ITC Bookman Demi °
24	ITC Bookman Demi Italic °
25	ITC Bookman Light °
26	ITC Bookman Light Italic °
27	Carta •
28	Chicago ¨
29	Clarendon †
30	Clarendon Bold †
31	Clarendon Light †
32	CooperBlack
33	CooperBlack Italic
34	Copperplate Gothic 33BC
35	Copperplate Gothic 32BC
36	Coronet ••
37	Courier
38	Courier Bold
39	Courier Bold Oblique
40	Courier Oblique

Continued on the next page...

Font Table

No.	Symbol Set
41	Eurostile **
42	Eurostile Bold **
43	Eurostile Bold Extended Two **
44	Eurostile Extended Two **
45	Geneva 𐀀
46	GillSans ‡
47	GillSans Bold ‡
48	GillSans Condensed Bold ‡
49	GillSans Bold Italic ‡
50	GillSans Condensed ‡
51	GillSans Extra Bold ‡
52	GillSans Italic ‡
53	GillSans Light ‡
54	GillSans Light Italic ‡
55	Goudy Oldstyle
56	Goudy Bold
57	Goudy Bold Italic
58	Goudy ExtraBold
59	Goudy Oldstyle Italic
60	Helvetica †
61	Helvetica Bold †
62	Helvetica Bold Oblique †
63	Helvetica Condensed †
64	Helvetica Condensed Bold †
65	Helvetica Condensed Bold Oblique †
66	Helvetica Condensed Oblique †
67	Helvetica Narrow †
68	Helvetica Narrow Bold †
69	Helvetica Narrow Bold Oblique †
70	Helvetica Narrow Oblique †
71	Helvetica Oblique †
72	HoeflerText Black 𐀀
73	HoeflerText Black Italic 𐀀
74	HoeflerText Italic 𐀀
75	HoeflerText Ornaments 𐀀
76	HoeflerText 𐀀
77	Joanna ‡
78	Joanna Bold ‡
79	Joanna Bold Italic ‡
80	Joanna Italic ‡
81	Letter Gothic

Font Table

No.	Symbol Set
82	Letter Gothic Bold
83	Letter Gothic Bold Slanted
84	Letter Gothic Slanted
85	ITC Lubalin Graph Book °
86	ITC Lubalin Graph Book Oblique °
87	ITC Lubalin Graph Demi °
88	ITC Lubalin Graph Demi Oblique °
89	Marigold °
90	ITC Mona Lisa Recut °
91	Monaco α
92	New Century Schoolbook Bold †
93	New Century Schoolbook Bold Italic †
94	New Century Schoolbook Italic †
95	New Century Schoolbook Roman †
96	NewYork α
97	Optima †
98	Optima Bold †
99	Optima Bold Italic †
100	Optima Italic †
101	Oxford °
102	Palatino Bold †
103	Palatino Bold Italic †
104	Palatino Italic †
105	Palatino Roman †
106	Stempel Garmond Bold †
107	Stempel Garmond Bold Italic †
108	Stempel Garmond Italic †
109	Stempel Garmond Roman †
110	ITC Symbol °
111	Tekton •
112	Times Bold †
113	Times Bold Italic †
114	Times Italic †
115	Times Roman †
116	Times New Roman ‡
117	Times New Roman Bold ‡
118	Times New Roman Bold Italic ‡
119	Times New Roman Italic ‡
120	Univers †
121	Univers Bold †
122	Univers Bold Oblique †

Continued on the next page...

Appendix

Font Table

No.	Symbol Set
123	Univers Oblique †
124	Univers Light †
125	Univers Light Oblique †
126	UniversCondensed †
127	UniversCondensed Bold †
128	UniversCondensed Bold Oblique †
129	UniversCondensed Oblique †
130	UniversExtended †
131	UniversExtended Bold †
132	UniversExtended Bold Oblique †
134	UniversExtended Oblique †
135	Wingdings ~
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