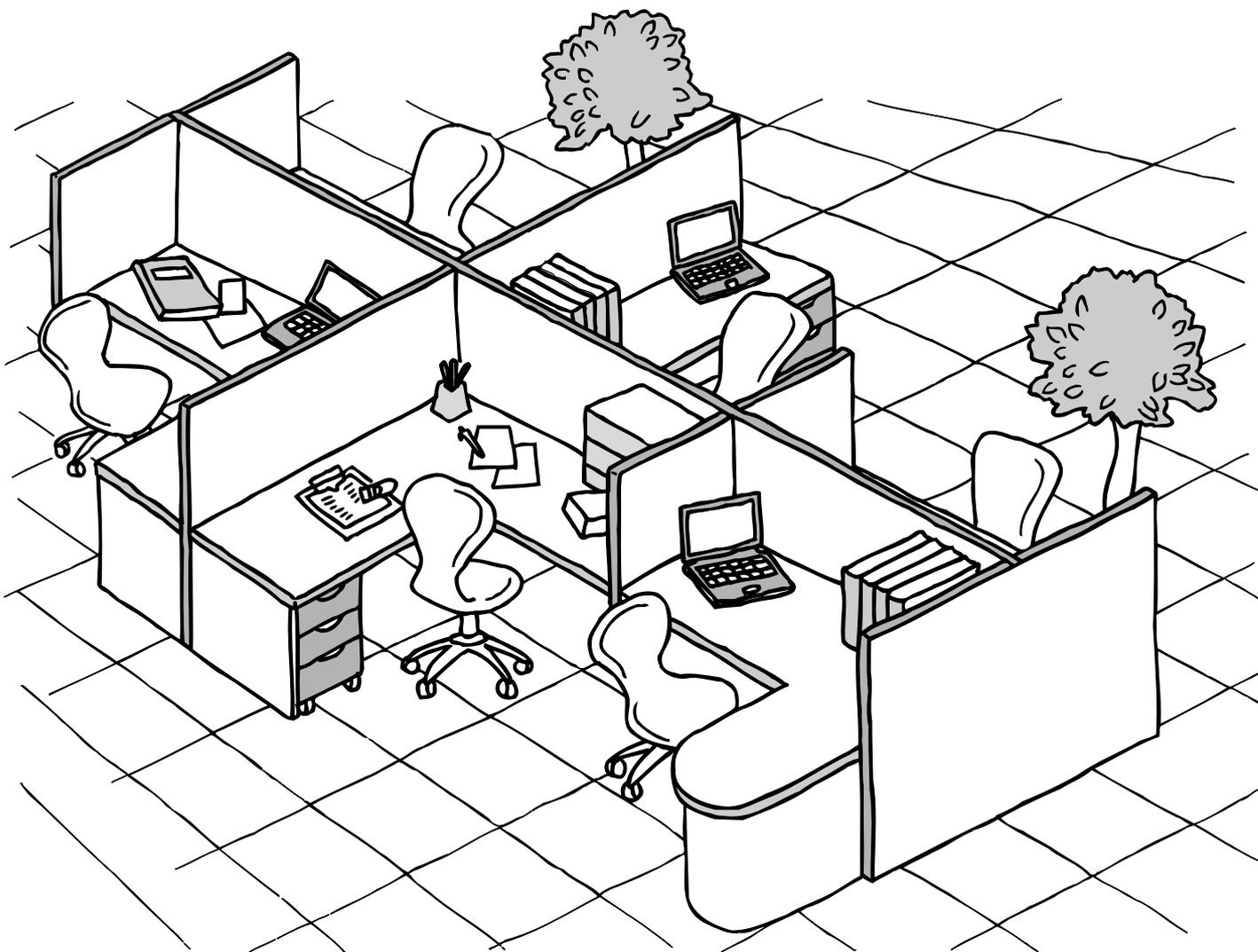# Panasonic®

Software
Operating Instructions
(For Panasonic Printing System Ver. 6)

Model No. DP-1510P/1810P/1810F/2000/2010E/2500/3000

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

English

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The contents of these Operating Instructions are subject to change without notice.

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Before Use

Printer Section

Troubleshooting

Precautions

• You need to read the software license agreement before setting up the Printer Driver.
• You need to read the following precautions which is described in the Machine's Operating Instructions.
  1. Installation
  2. Ventilation
  3. Handling
  4. Toner and Paper
  5. For your safety

Installing the Printer Driver

Windows 98/Me/NT/2000/XP

1

Insert the Panasonic Printing System Ver. 6 CD-ROM.

2

Click on the desired language.

3
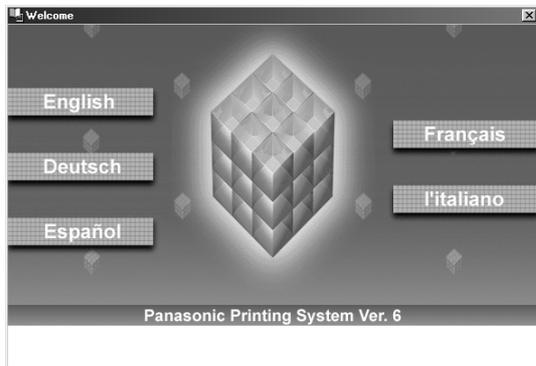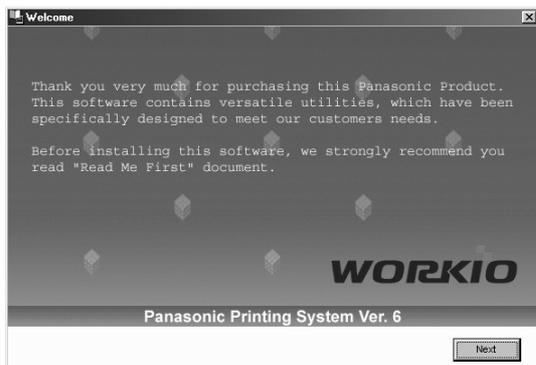
Click on the [Next] button.

4
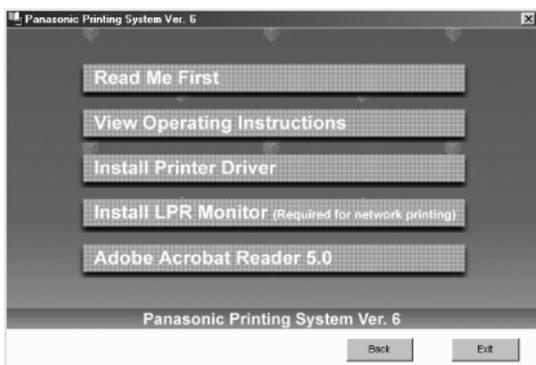
Click **Install Printer Driver**.

Continued on the next page...

Windows 98/Me/NT/2000/XP

5
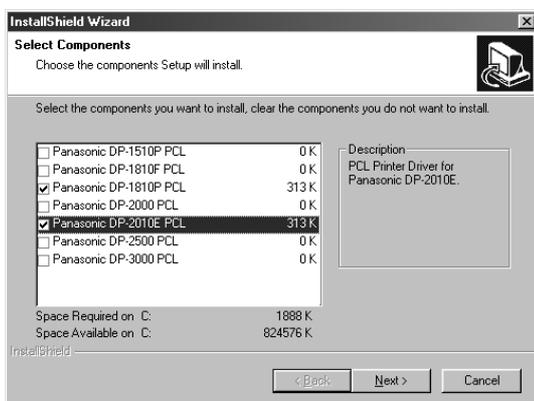
Select your machine's model(s) and click the [Next] button.

6
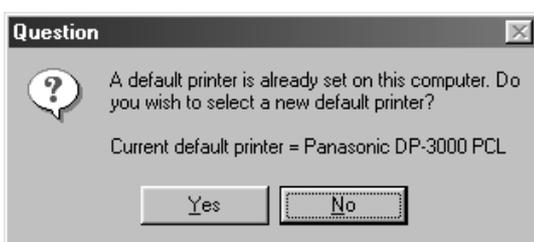
Click the [Yes] button if you would like to change your current default printer to the one that you are installing.

7
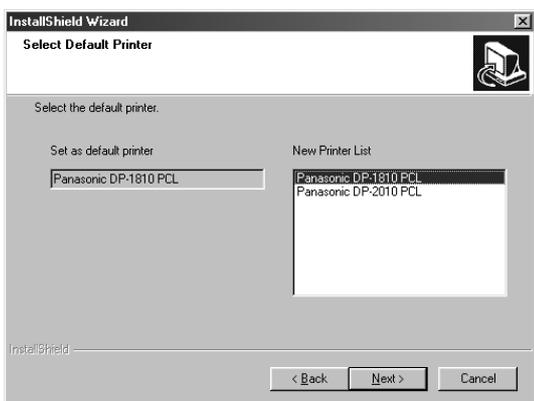
Select your new default printer from the New Printer List and click the [Next] button.

8
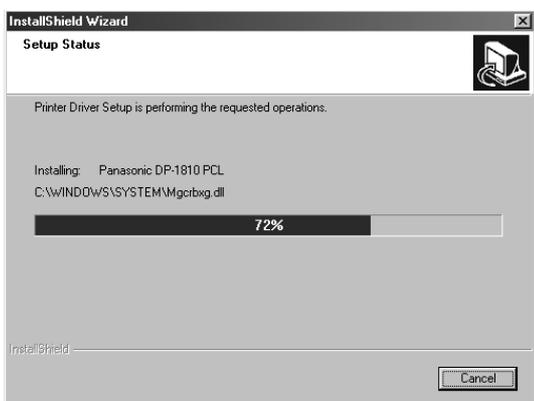
The required files are copied.

6

Windows 98/Me/NT/2000/XP

9

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

Click the | Finish | button to restart your computer.

The Panasonic/Panafax Printer Driver is installed, and the Panasonic/Panafax Printer icon(s) are added to the Printer folder.

If you are installing the Printer Driver for network printing, please contact your network administrator for the IP Address of the machine and proceed to the next section to install the LPR Monitor service after your computer has rebooted.

NOTE   1. *When installing on Windows NT 4.0 and Windows 2000/XP, log onto the computer/network with an account rights of Administrator.*

Printer Section

7

Installing the LPR (Line Printer Remote) Monitor

Windows 98/Me

1
Insert the provided CD-ROM.

2

Click on the desired language.

3
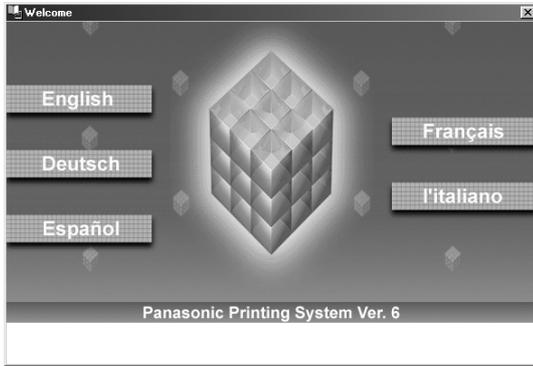
Click on the [Next] button.

4
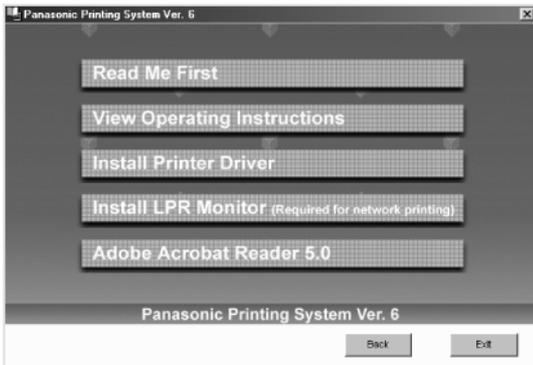
Click **Install LPR Monitor**.

5
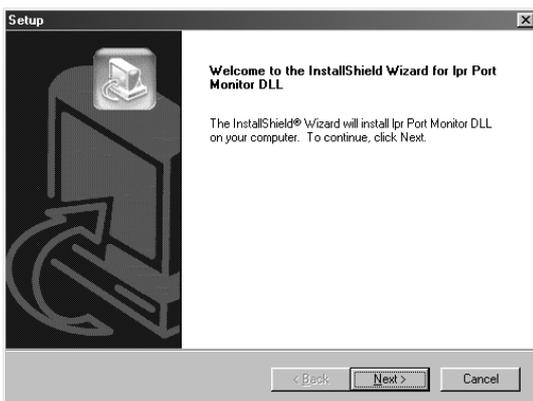
The **Setup** dialog box appears.

Click on the [Next] button.

Windows 98/Me

6
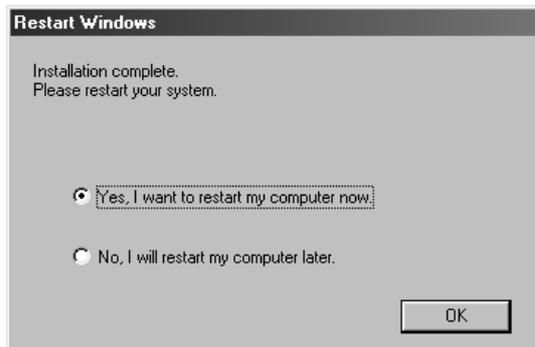
The setup program copies the necessary files onto your Hard Disk.
When the setup process is completed, a message is displayed prompting you to restart your computer.
It is recommended that you restart your computer now so that the LPR Monitor is started.

Click on the [OK] button.
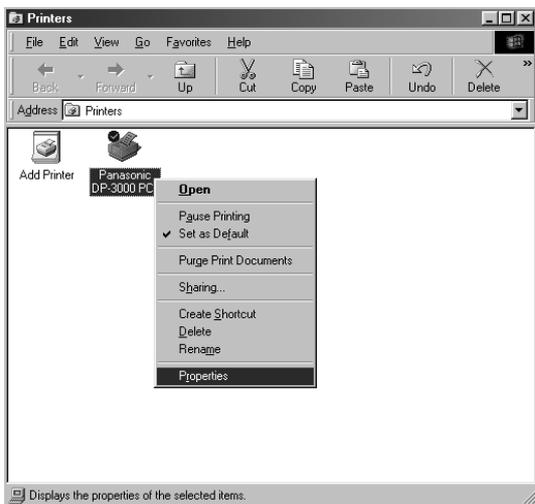
7

After your computer is rebooted, click the **Start** button, point to **Settings**, and then click **Printers**.

The **Printers** folder appears.

Right-click on your desired printer (Ex. Panasonic DP-3000 PCL) and select **Properties** from the pop-up menu.

8
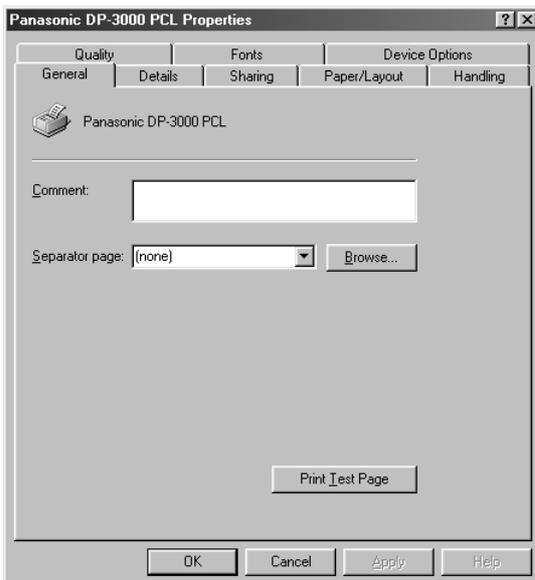
The printer properties dialog box appears.

The following step is to Register the LPR Port for network printing.

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

Continued on the next page...

Installing the LPR (Line Printer Remote) Monitor

Windows 98/Me

9
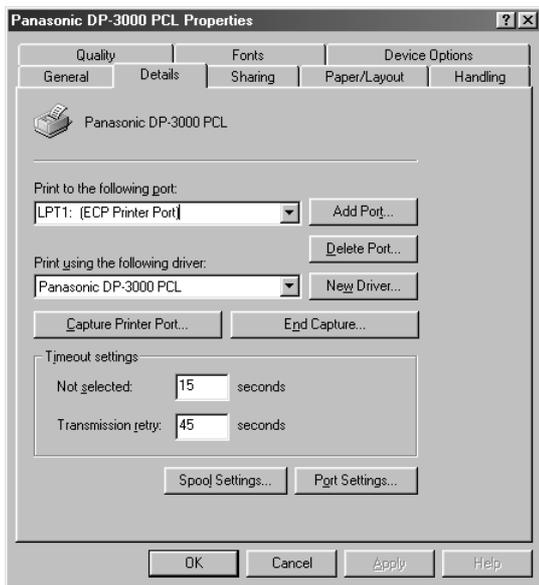
Select the **Details** tab and click on the Add Port... button.

10
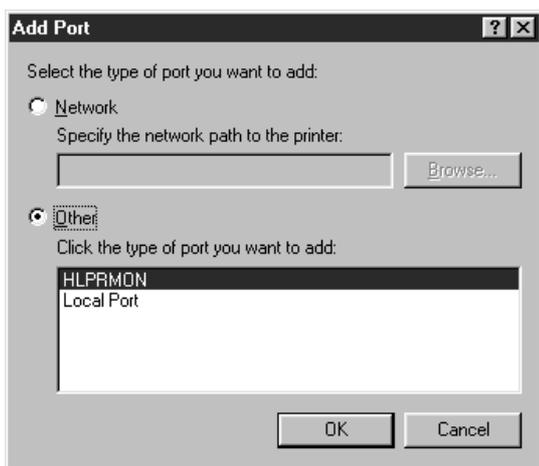
The **Add Port** dialog box appears. Click the **Other** radio button, and select **HLPRMON** from "Click the type of port you want to add:" and click on the OK button.

11
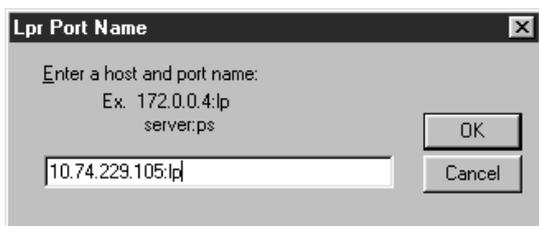
The **LPR Port Name** dialog box appears.

Type the IP Address of the machine and "lp"as the queue name separated by a ":"

Ex: 10.74.229.105:lp

Click on the OK button. If an error occurs because the queue name was already used for the same IP Address, select a different unique name such as "lpr".

Windows 98/Me

12

```
Panasonic DP-3000 PCL Properties                          ? X
┌──────────────────────────────────────────────────────┐
│  Quality     │      Fonts      │     Device Options     │
│ General │  Details  │  Sharing  │  Paper/Layout │ Handling│
│                                                        │
│  🖨  Panasonic DP-3000 PCL                             │
│                                                        │
│  Print to the following port:                          │
│  ┌──────────────────────────────┐ ┌─────────────┐     │
│  │10.74.229.105:lp (Lpr Port Monitor)│▼│ │  Add Port...  │     │
│  └──────────────────────────────┘ └─────────────┘     │
│                                    ┌─────────────┐     │
│  Print using the following driver:  │ Delete Port...│     │
│  ┌──────────────────────────────┐ └─────────────┘     │
│  │Panasonic DP-3000 PCL         │▼│ ┌─────────────┐    │
│  └──────────────────────────────┘ │  New Driver...│    │
│  ┌──────────────────┐ ┌──────────────┐                │
│  │Capture Printer Port...│ │ End Capture...│                │
│  └──────────────────┘ └──────────────┘                │
│  ┌─Timeout settings──────────────────────────────┐    │
│  │  Not selected:    │15 │ seconds                 │    │
│  │  Transmission retry: │45 │ seconds              │    │
│  └───────────────────────────────────────────────┘    │
│         ┌──────────┐ ┌──────────┐                     │
│         │Spool Settings...│ │Port Settings...│                     │
│         └──────────┘ └──────────┘                     │
│                                                        │
│    ┌────┐ ┌──────┐ ┌──────┐ ┌──────┐                 │
│    │ OK │ │Cancel│ │Apply │ │ Help │                 │
│    └────┘ └──────┘ └──────┘ └──────┘                 │
└──────────────────────────────────────────────────────┘
```
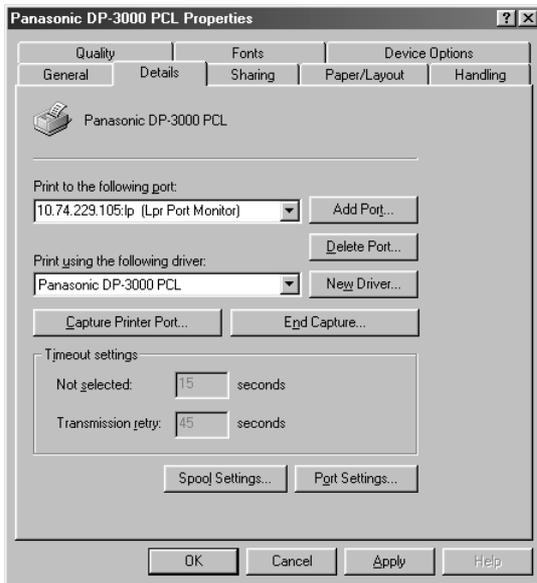
The screen reverts to the Printer's Properties.

Check that the "Print to the following port:" was changed as entered, and click on the **Apply** button first and then on the [OK] button.

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

Printer Section

11

Installing the LPR (Line Printer Remote) Monitor

Windows NT 4.0

Log in using an account with the administrator's right.

1
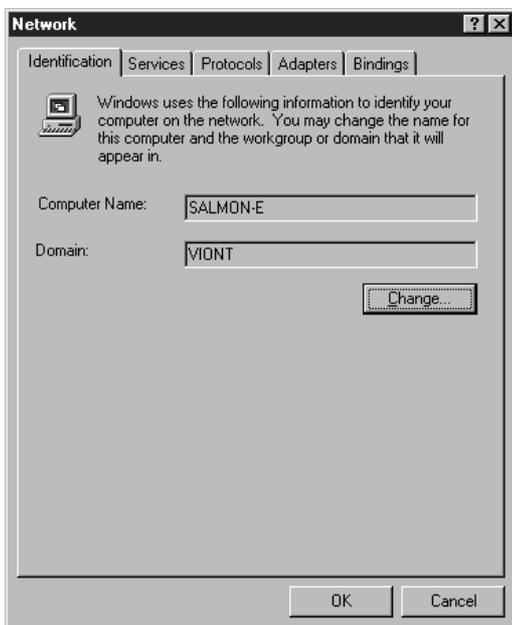
Click on the **Start** button, point to **Settings**, and click **Control Panel**.

The **Control Panel** window appears.

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

The **Network** dialog box appears.

2
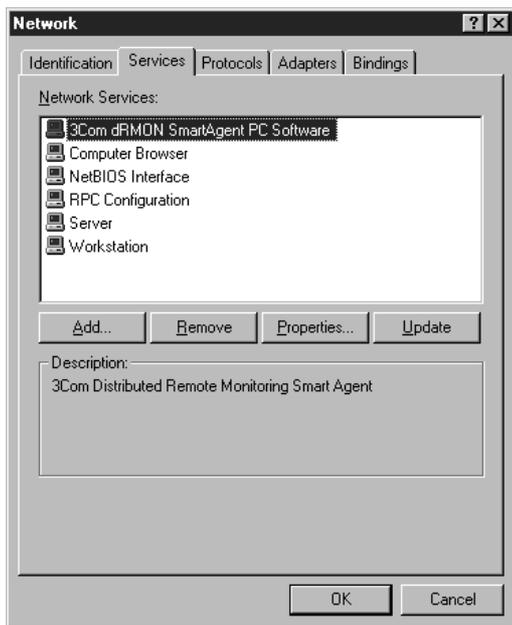
Click on the **Services** tab.

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 over to Step 7. Otherwise continue installing the LPR Service.

3
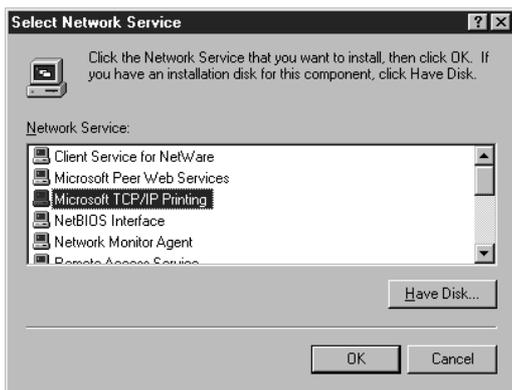
Click on the [Add...] button to display the **Select Network Service** dialog box, then select **Microsoft TCP/IP Printing**.

Click on the [OK] button.

Windows NT 4.0

4
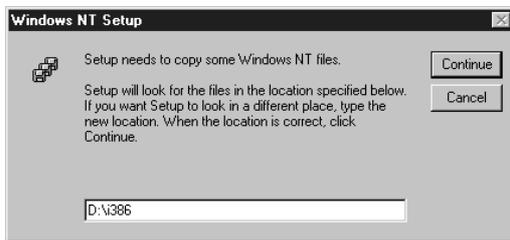
The **Windows NT Setup** dialog box appears.

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

Click on the ⌈ Continue ⌋ button.

5
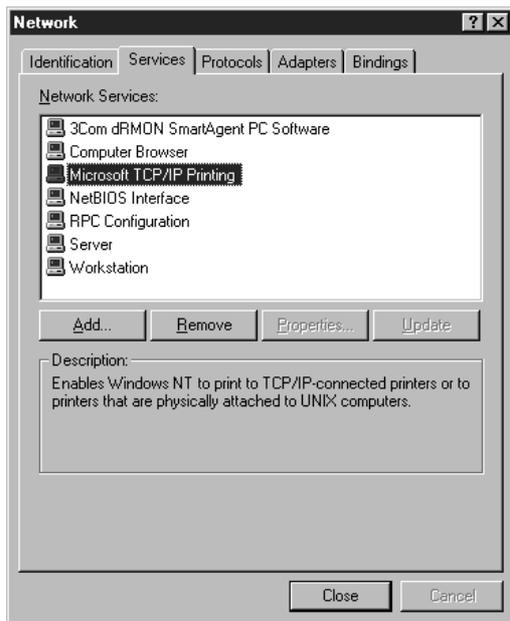
After the files are copied into your Hard Drive, the display returns to the Network dialog box. Confirm that the Microsoft TCP/IP Printing service was added to Network Services list.

Click on the ⌈ Close ⌋ button.

Note: *Delete and Reinstall the Microsoft TCP/IP Printing if an error occurs, and the Microsoft TCP/IP Printing is displayed in the Network Services list, but, the OK button does not change into a Close button.*

6
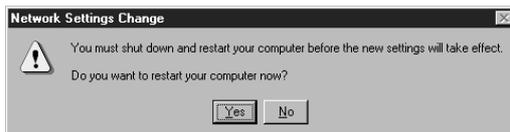
The **Network Settings Change** dialog box is displayed, click on the ⌈ Yes ⌋ button to confirm whether to restart your computer now.

You have now completed the LPR Service installation.

7

After your computer is rebooted, click the **Start** button, point to **Settings**, and then click **Printers**.

The **Printers** folder appears.

Right-click on your desired printer (Ex. Panasonic DP-3000 PCL) and select **Properties** from the pop-up menu.

Continued on the next page...

Installing the LPR (Line Printer Remote) Monitor

Windows NT 4.0

8
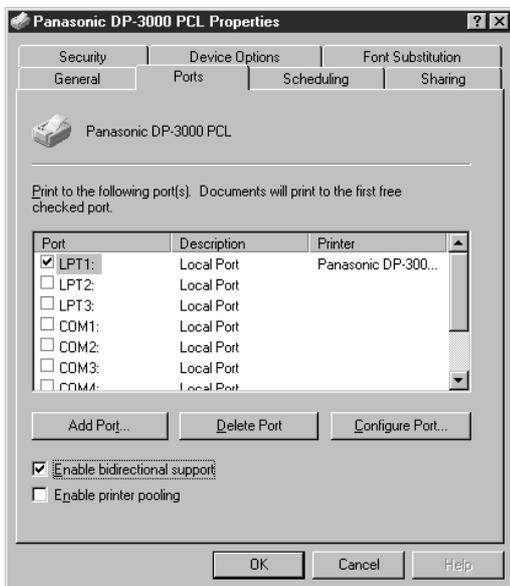
The following step is to Register the LPR Port for network printing.

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

Select the **Ports** Tab and click on the [Add Port...] button.

9
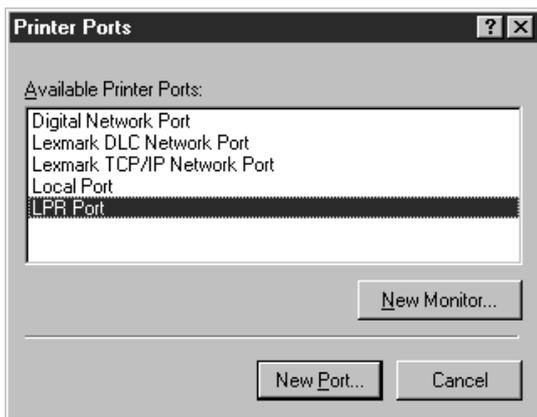
The **Printer Ports** dialog box appears.

Select **LPR Port** and click the [New Port] button.

10
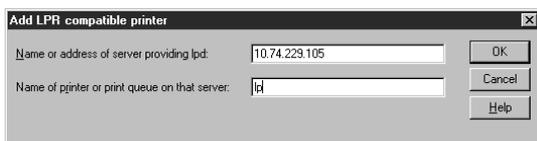
The **Add LPR compatible printer** dialog box appears.

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

Click on the [OK] button.

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

Windows NT 4.0

11
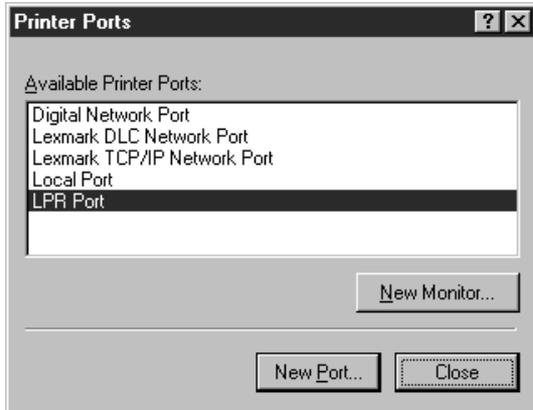
The **Printer Ports** dialog box appears.

Click on the [Close] button.

12
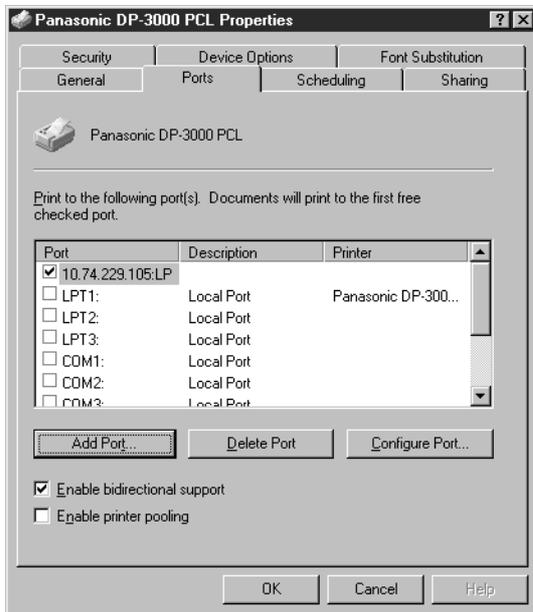
Select the printer port and click the [OK] button.

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

Installing the LPR (Line Printer Remote) Monitor

Windows 2000/XP

Log in using an account with the administrator's right.

1
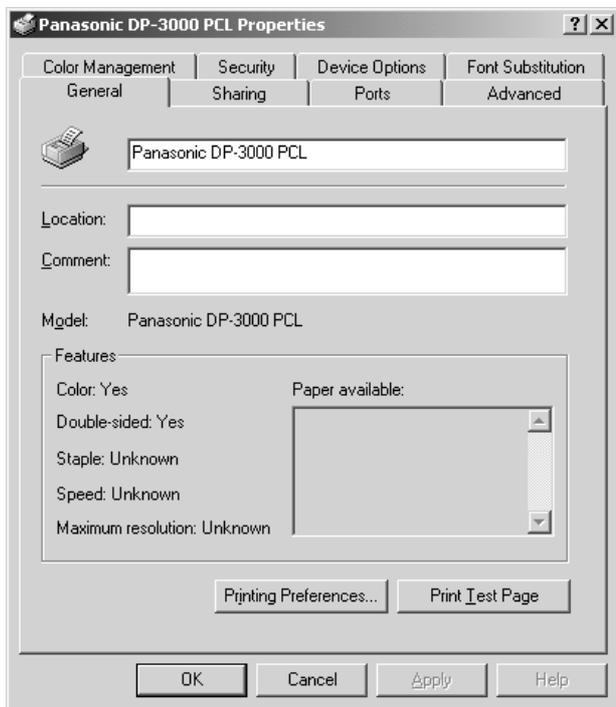
Open the **Printers** folder.

Right-click on your desired printer (Ex. Panasonic DP-3000 PCL) and select **Properties** from the pop-up menu.

The printer properties dialog box appears.

2

Select the **Ports** Tab and click on the Add Port... button.

Windows 2000/XP

3
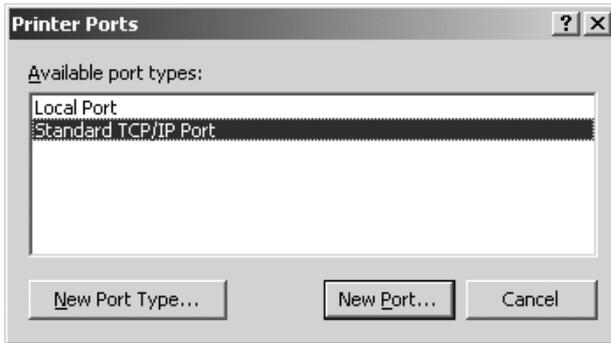
Select **Standard TCP/IP Port** and click the

New Port ... button.

4

Click on the Next button.

5
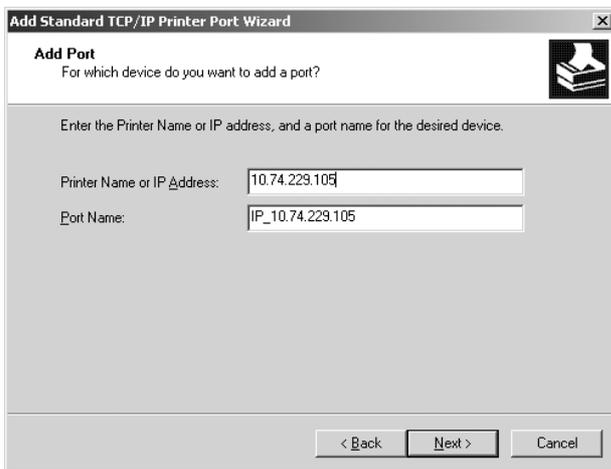
Enter the IP Address and the Port Name and

click the Next button.

Note: *The Port Name is automatically entered by Windows 2000/XP. You may change this as required.*

Continued on the next page...

Printer Section

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Windows 2000/XP

6

Select **Custom** and click the [Settings...] button.

7
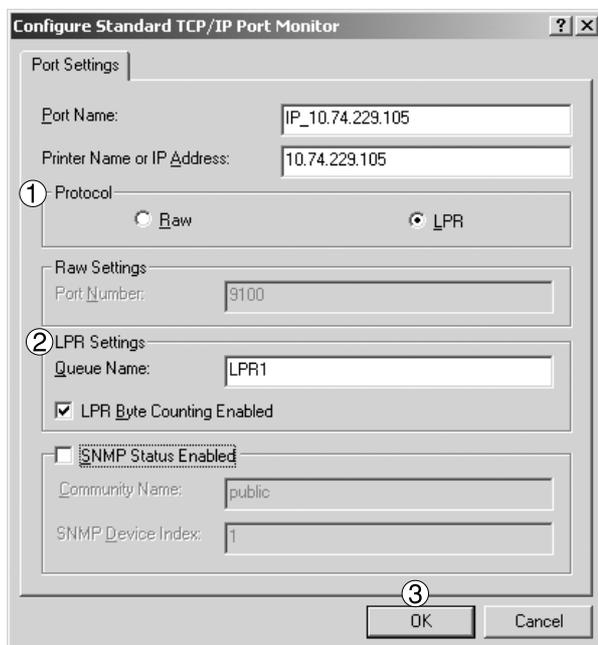
1. Under the Protocol, select **LPR**.
2. Under the LPR Settings, enter the **Queue Name** (Ex. LPR1) and check the **LPR Byte Counting Enabled**.
3. Click on the [OK] button.

8

Click on the [Next] button.

9

Click on the [Finish] button.

10
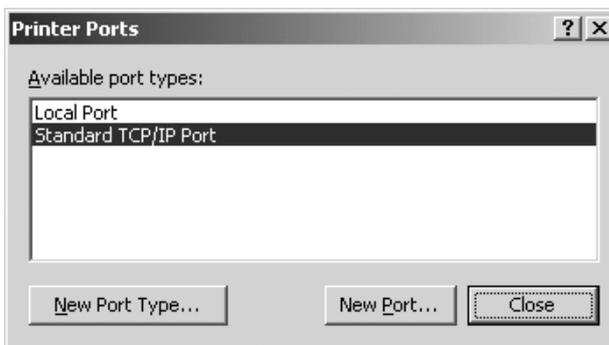
Click on the [Close] button.

11
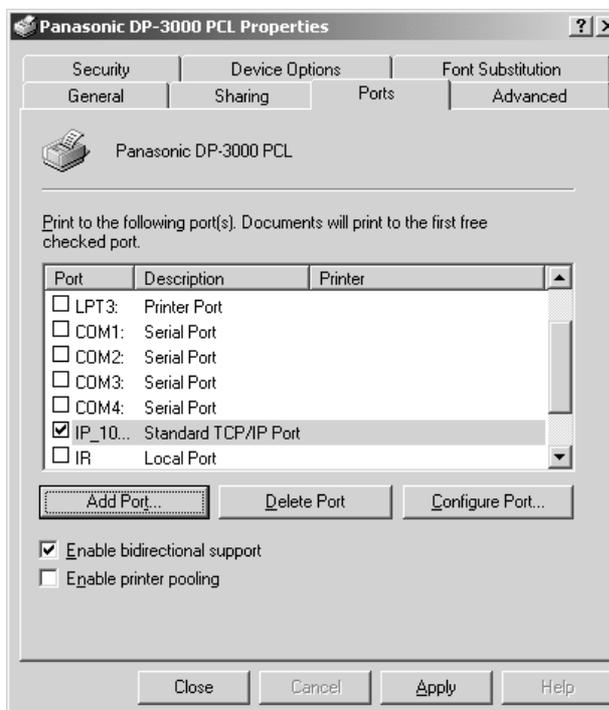
Click on the [Apply] button.

Click on the [OK] button.

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

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Configuring the Printer Driver Settings

Windows 98/Me

To change the printer settings, open the dialog box for the printer properties by the following steps.

1 Click the **Start** button, point to **Settings**, and then click **Printers**.

2 Right-click on the desired printer icon in the printers folder, and select **Properties** in the dropdown menu.

The printer properties dialog box appears.
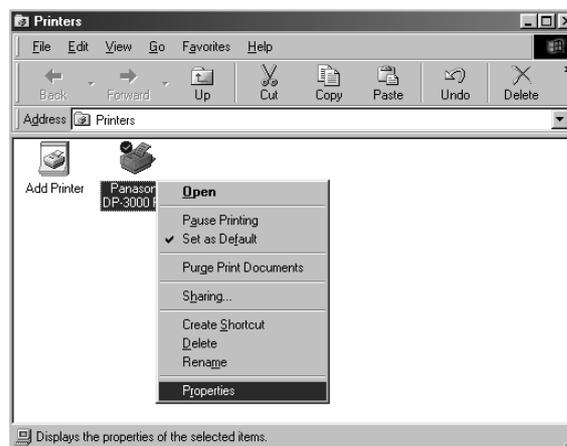
NOTE

1. *Upon printing, changing the properties of* ***Paper/Layout***, ***Handling***, ***Quality*** *and* ***Device Options*** *is allowed by clicking* ***Properties*** *in the print dialog box of an application.*
2. ***Sharing*** *Tab in property dialog box is not displayed unless printer sharing has been specified.*

Windows 98/Me

General Tab
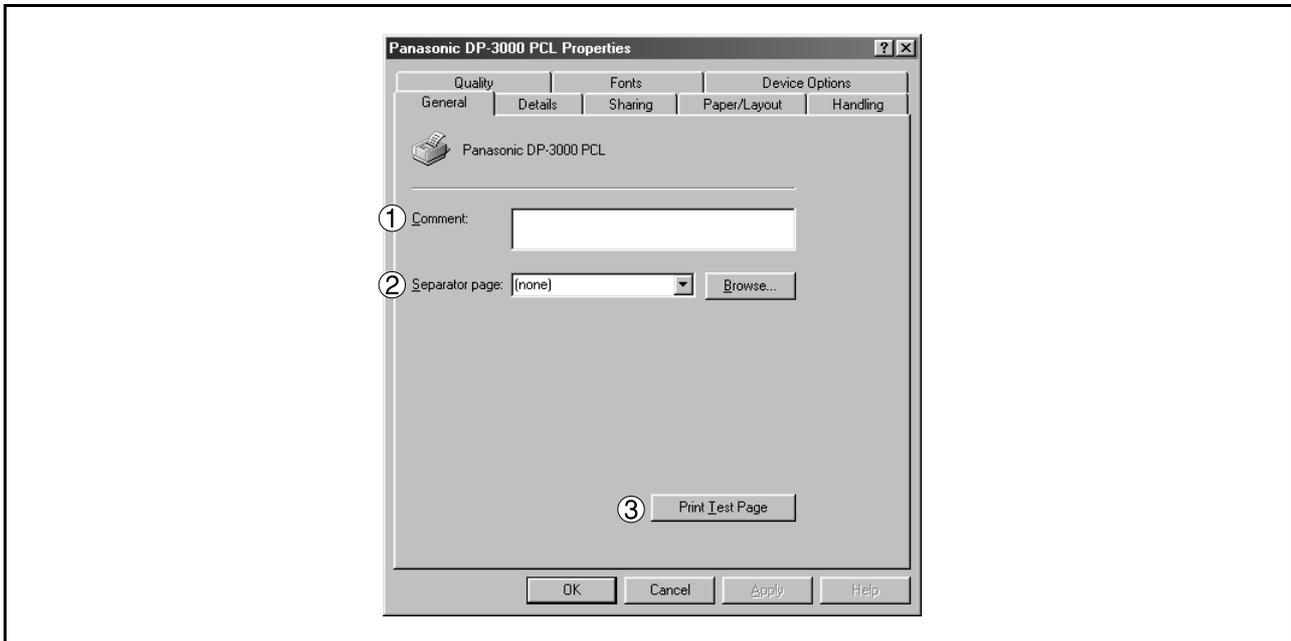
1. **Comment**
   Enter comments to the properties, if any.

   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 already set-up user will remain unchanged even if the comment is modified later.

2. **Separator page**
   This feature is not available on your machine.

3. | Print Test Page | **button**
   Prints a test page. This allows the user to verify if the printer is installed properly.

Printer Section

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Configuring the Printer Driver Settings

Windows 98/Me

Details Tab
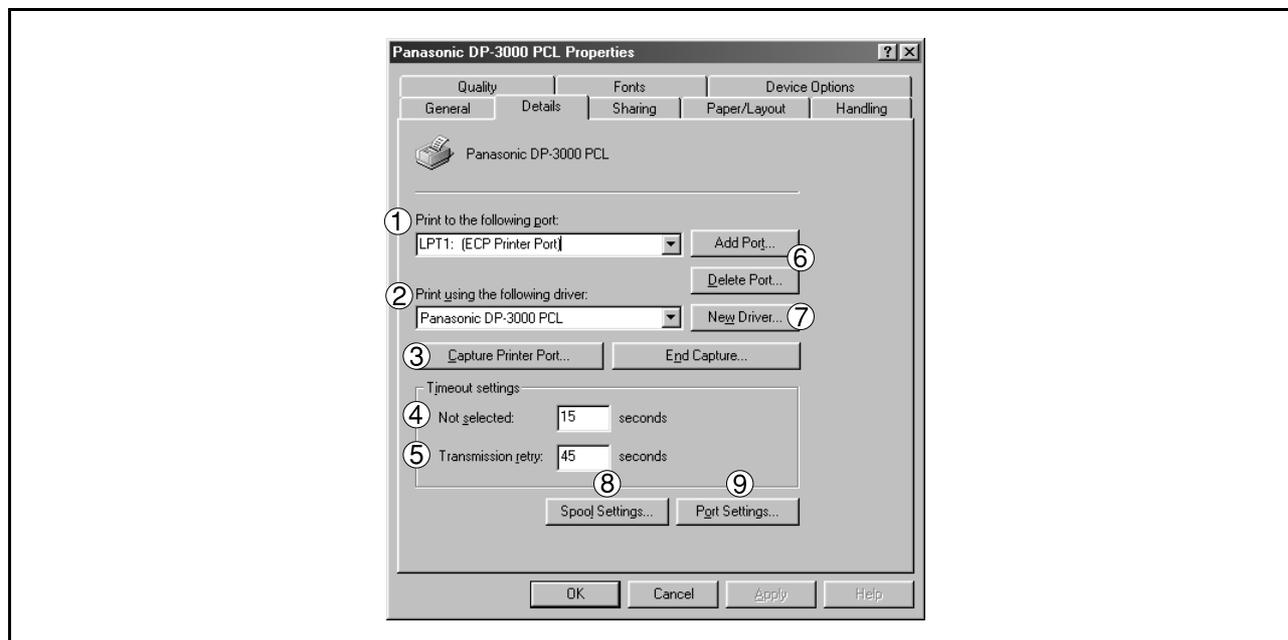
1. **Print to the following port**
   Displays either the port to which the printer is connected or the path to the network printer.

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

2. **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.

3. [Capture Printer Port...] / [End Capture...] **button**
   Assigns a port to the network drive or cancels a port assigned to the network drive.

4. **Timeout settings - Not selected**
   Specify the amount of time (in seconds) allowed to elapse before the printer becomes online. If the printer is not online within this duration, an error message will be displayed.

5. **Timeout settings - Transmission retry**
   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.

6. [Add Port...] / [Delete Port...] **button**
   Adds/deletes a new port or a new network path.

7. [New Driver...] **button**
   Updates or modifies the printer driver.

Windows 98/Me

8. | Spool Settings... | **button**

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

• **Spool Data Type**

Select spool data type (EMF format or RAW format). Specifying RAW format results in longer time before placing an application operational after printing on the application.

Note: Spooling by EMF format (metafile compression) may cause the following problems on some application software.
1) Printing result is different from the screen display.
2) Printing requires excessive time.

• **Enable bidirectional support**

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

9. | Port Settings... | **button**

Modifies printer port settings.

Printer Section

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Configuring the Printer Driver Settings

Windows 98/Me

Sharing Tab
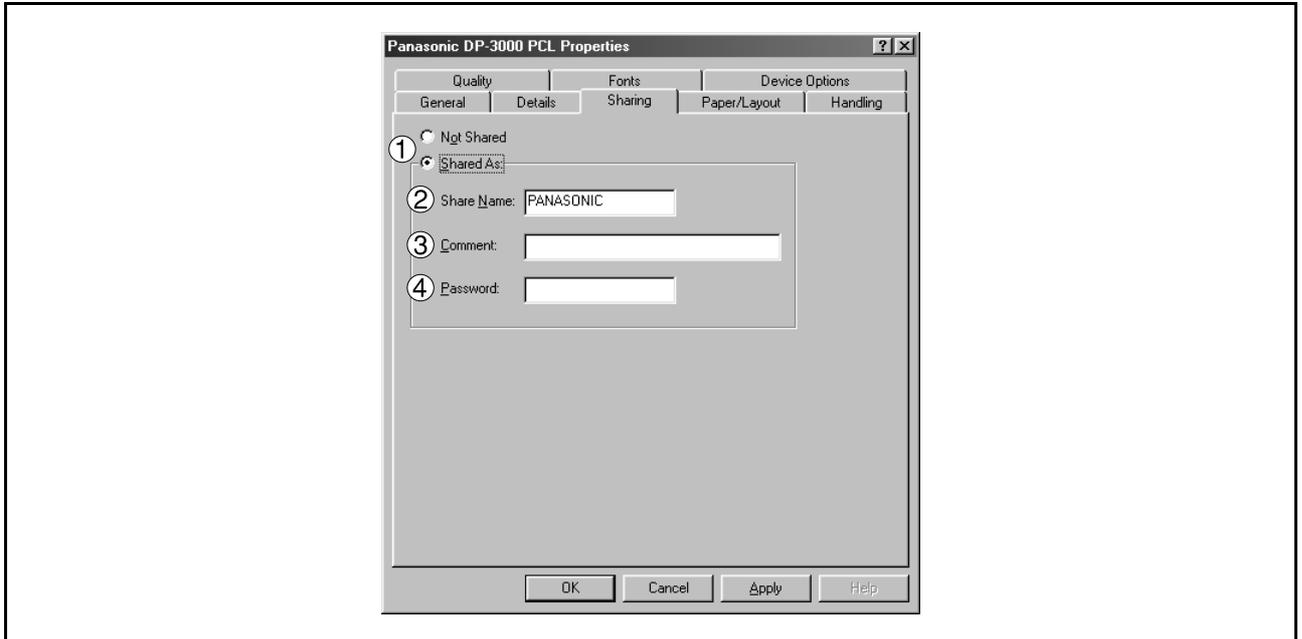
1. **Not Shared/Shared As**
   Select whether to display or use this printer with other computers.

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 at this time will be displayed when other users view information about the printer on the network.

3. **Comment**
   You can enter comment 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 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.*

Windows 98/Me

Device Options Tab

1. **Security Print Password (For DP-1810F/2000/2500/3000)**
   Set the password for Security Print, to enable the feature.

2. **Duplex Unit (For DP-2000/2500)**
   Check this checkbox if the Automatic Duplex Unit (DA-MD200) is installed.

3. **Inner Tray (For DP-2000/2500/3000)**
   Check this checkbox if the Exit Tray (Inner) and the Dual-Path Exit Guide Unit (DA-XN200/FK200) are installed.
   Specifying inner bins, Inner 1 and Inner 2, is allowed for printing on the printer.

4. **Outer Tray (For DP-2000/2500/3000)**
   Check this checkbox if the Outer Tray (DA-XT200) is installed.
   Setting of this option is allowed when the Inner Tray option is enabled.

5. **Finisher (For DP-2000/2500/3000)**
   Check this checkbox if the 1-Bin Finisher (DA-FS200) is installed.
   Setting of this option is allowed when the Inner Tray option is enabled. The staple function also is selectable when this option is enabled.

6. **Number of Paper Tray**
   Select the number of available paper trays for the printer if an optional Paper Feed Module is installed.

7. **Printer/Fax Memory (For DP-1810F/2000/2500/3000)**
   Select the size of the Expansion Flash Memory Card or whether a Fax Option (2MB) has been installed, to enable Security Print.

8. Restore Defaults **button**
   Return all items in the **Device Options** Tab to standard settings (default).

9. About... **button**
   Displays the version information about the printer driver.

NOTE   *1. **Device Options** Tab specifies device-specific settings and settings of optional devices.*

Printer Section

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Configuring the Printer Driver Settings

Windows 98/Me

Paper/Layout Tab

1. **Paper Size**
   Select a document size.

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

3. **Orientation**
   Select the print orientation (Portrait/Landscape).

4. **Copies (1-999)**
   Specify the number of copies to be printed. If the number of copies to be printed can be specified within the application, indicate one copy here and specify the number of copies in the Print dialog box of the application.

   DP-1510P/1810P/1810F/2010E/3000 Driver only

   - **Printer controlled**
     The printer controls numbers of copies.
     (Prints faster utilizing the Sort Memory of printer.)

     Note: If the Collation can be specified on the application's Print dialog box, make sure it is unchecked in order for this setting to function properly.

   - **Printer driver controlled**
     The printer driver controls number of copies.
     (Prints slower not utilizing the Sort Memory of printer.)
   ---

5. **Zoom (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.

Windows 98/Me

6. **Magnify**

   Select a fixed enlargement/reduction ratio according to the paper size. Specifying the magnification ratio changes the Zoom to display the actual enlargement/reduction percentage.

7. **N in 1**

   Specify the layout pattern for printing multiple documents on a single sheet of paper.
   Selecting 2 in 1 or 4 in 1 changes the Zoom to display the actual enlargement/reduction percentage.

   Note: 2 in 1 or 4 in 1 allows the user to select the following layouts under the Position field:

2 in 1 Portrait

| 1 | 2 | | 2 | 1 |
Pattern 1   Pattern 2

2 in 1 Landscape

Pattern 1   Pattern 2

4 in 1 Portrait

Pattern 1   Pattern 2   Pattern 3   Pattern 4

4 in 1 Landscape

Pattern 1   Pattern 2   Pattern 3   Pattern 4

8. [Restore Defaults] **button**

   Return all items in **Paper/Layout** Tab to standard settings (default).

9. [About...] **button**

   Displays the version information about the printer driver.

Printer Section

Configuring the Printer Driver Settings

Windows 98/Me

Handling Tab

1. **Sorter**
   Select whether to Stack or Sort when printing multiple copies.
   Note 1) When the **Staple** is set to On, the **Rotate-Sort** and **Shift-Sort** is not activated even if it is selected.
   2) **Shift-Sort** is not available on DP-1510P/1810P/1810F/2010E.

2. **Printing on both sides (Duplex) (For DP-2000/2010E/2500/3000)**
   Select duplex printing for printing on both sides.
   Note 1) Duplex Printing is allowed only when the Dual-Path Exit Guide Unit, Paper Transport Unit and Automatic Duplex Unit (DA-FK200/FK210/MD200) are mounted.
   2) Check [Duplex Unit] check box in **Device Options** Tab.

3. **Flipping Direction (For DP-2000/2010E/2500/3000)**
   Select binding side (Long Edge/Short Edge) for duplex printing.

4. **Binding Margin (For DP-2000/2010E/2500/3000)**
   Select the binding margin upon duplex printing.
   The width of the binding margin is specified on the main unit.

5. **Output Tray (For DP-2000/2500/3000)**
   Specify the output destination. (Auto Selection, Inner Tray 1, Inner Tray 2)
   Note 1) Output Tray selection is allowed only with Dual-Path Exit Guide Unit, Paper Transport Unit, Exit Tray (Outer) or 1-Bin Finisher (DA-FK200/FK210/XT200/FS200) is installed.
   2) Check [Inner Tray], [Finisher / Outer Tray] check boxes in **Device Options** Tab.

Windows 98/Me

6. **Staple (For DP-2000/2500/3000)**

Specifying staple printing is allowed if the output bin is set to outer.

Note 1) Staple printing is allowed only with Electronic Sorting Board (DA-ES200 : For DP-2000 only) and 1-Bin Finisher (DA-FS200) mounted.

2) Select "Sort" in the sort menu.

3) Paper is stapled at the top left or at the top right. (See table below.)

Document orientation	Paper orientation	Stapling position
Letter A4	Letter A4	Top left — Letter A4
	Letter/A4	Top right — Letter A4 — Note) Stapling on Invoice/B5 sheet is not allowed.
Letter/A4	Letter A4	Top right — Letter/A4
	Letter/A4	Top left — Letter/A4 — Note) Stapling on Invoice/B5 sheet is not allowed.
Ledger Legal A3 FLS B4	Ledger/ Legal/ A3/FLS/B4	Ledger Legal A3 FLS B4 — Top right — Note) Stapling on Invoice/B5 sheet is not allowed.
Ledger/ Legal/ A3/FLS/B4		Top left — Ledger/ Legal/ A3/FLS/B4 — Note) Stapling on Invoice/B5 sheet is not allowed.

Printer Section

Configuring the Printer Driver Settings

Windows 98/Me

7. **Image Overlay**
   Select if you want to use the Overlay feature for printing.
   Checking the Save As Overlay check box will save the page to be printed as an overlay image to the selected Image Name.

   • **To Save an Overlay Image**
   1. Create or open an existing file from your application.
   2. When you are ready to save the page as an Overlay Image, from the Menu bar, select **File | Print**.
   3. The Print dialog box appears. Select the Panafax facsimile unit printer driver and then click on the **Properties** button.
   4. From the printer driver Properties dialog box, click on the **Handling** tab.
   5. From the **Image Name** list box, select a desired name from the list.
      NOTE: You can edit the image name to better describe the Overlay Image content for future

      reference by clicking on the ⸢ Edit Image Name Table... ⸥ button.
   6. Check the **Save As Overlay** check box.
   7. Click **OK** to close and save the settings of the printer driver Properties dialog box.
   8. Click **OK** from your application's Print dialog box to save the page as an Overlay Image.

   • **To Print a document with an Overlay Image**
   1. Create or open an existing file to be printed with your application.
   2. When you are ready to print the document, from the Menu bar, select **File | Print**.
   3. The Print dialog box appears. Select the Panafax facsimile unit printer driver and then click on the **Properties** button.
   4. From the printer driver Properties dialog box, click on the **Handling** tab.
   5. From the **Image Name** list box, select a desired Overlay Image from the list.
   6. Be sure the **Save As Overlay** check box is not checked.
   7. Click **OK** to close and save the settings of the printer driver Properties dialog box.
   8. Click **OK** from your application's Print dialog box to begin printing the document with the selected Overlay Image on top of each pages.

8. ⸢ Edit Image Name Table... ⸥ **button**
   Edit the name of the Overlay Image to better describe its content.
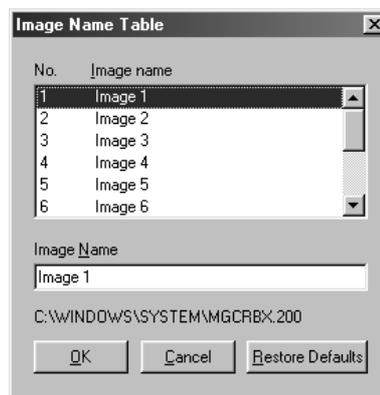
9. ⸢ Restore Defaults ⸥ **button**
   Return all items in the window to standard settings (default).

10. ⸢ About... ⸥ **button**
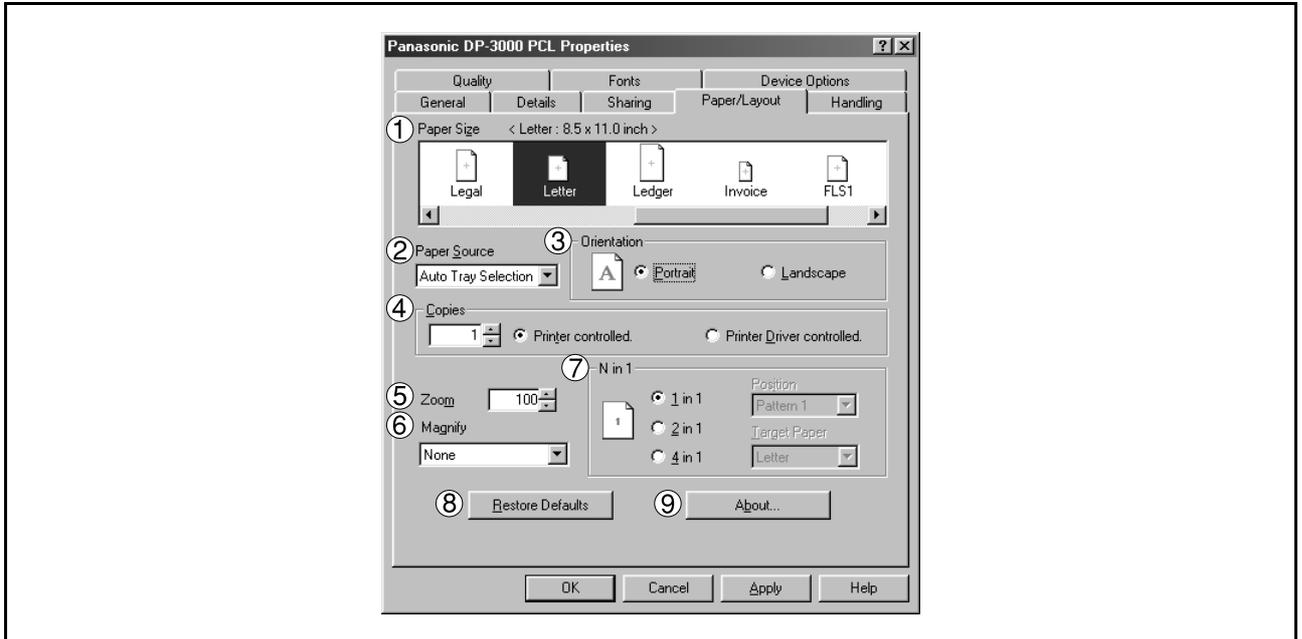   Displays the version information about the printer driver.

Windows 98/Me

Quality Tab
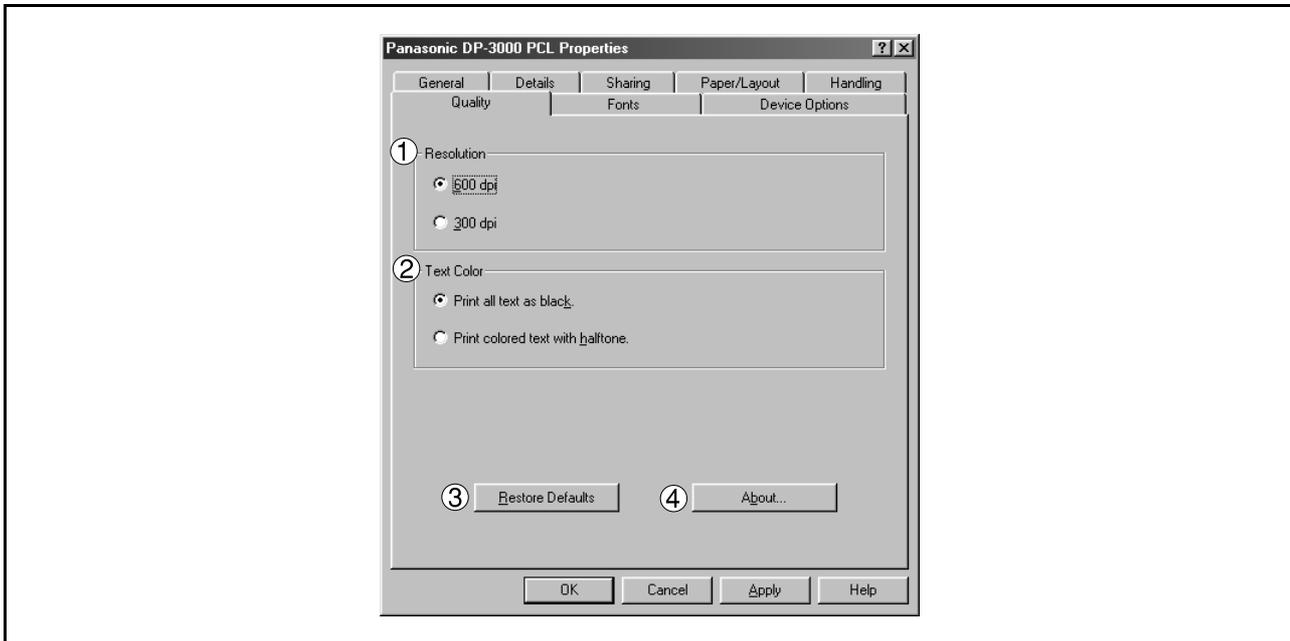
1. **Resolution**
   Select the printer resolution (300dpi/600dpi).

2. **Text Color**
   Select the print control of colored text.

   • **Print all text as black**
     All colored text is printed as solid black.

   • **Print colored text with halftone**
     Colored text is printed using shades of gray.

3. | Restore Defaults | **button**
   Return all items in the **Quality** Tab to standard settings (default).

4. | About... | **button**
   Displays the version information about the printer driver.

NOTE

1. **dpi** *(dot per inch) means the number of dots contained in one inch. The higher the value is, the higher the resolution becomes.*

Printer Section

Configuring the Printer Driver Settings

Windows 98/Me

Fonts Tab
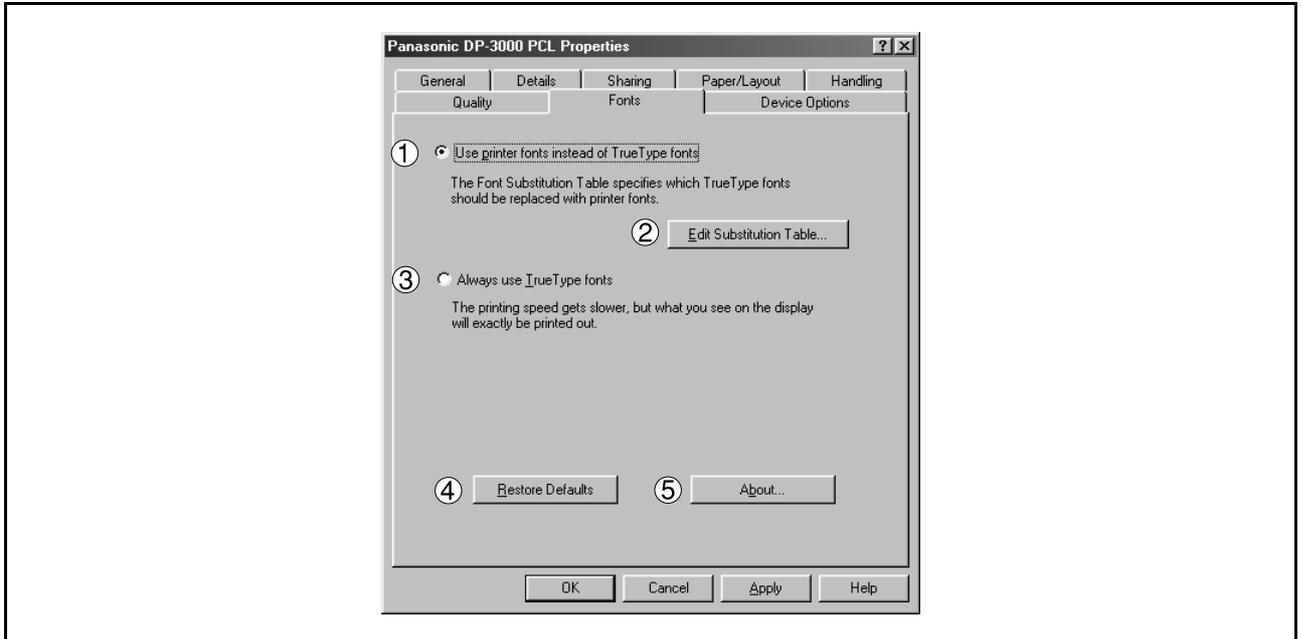
1. **Use printer fonts instead of TrueType fonts**
   Prints using printer fonts, substituting for the TrueType fonts used in the original document.
   The substituting printer font can be set with the Font Substitution Table.

2. Edit Substitution Table | button
   Displays and edit the Font Substitution Table.
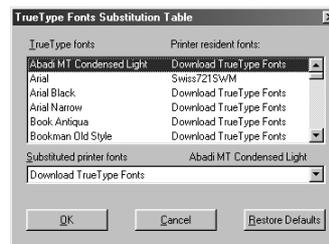
   In the original setting, the Font Substitution Table is set to substitute TrueType fonts with the most similar printer fonts. However, if you wish to modify the substitution, select a font from the list of TrueType fonts displayed at the top and then select a corresponding Printer font from the Substituted printer fonts list box.

3. **Always use TrueType fonts**
   Always uses TrueType fonts without substituting them with printer fonts.

4. Restore Defaults | **button**
   Return all items in the window to standard settings (default).

5. About... | **button**
   Displays the version information about the printer driver.

Windows NT 4.0 (Administrator)

To change the printer settings, open the dialog box for the printer properties by the following steps.

1 Log onto the computer/network with an account rights of Administrator.

2 Click the **Start** button, point to **Settings**, and then click **Printers**.

3 Right-click on the desired printer icon in the printers folder, and select **Properties** in the dropdown menu.

The printer properties dialog box appears.
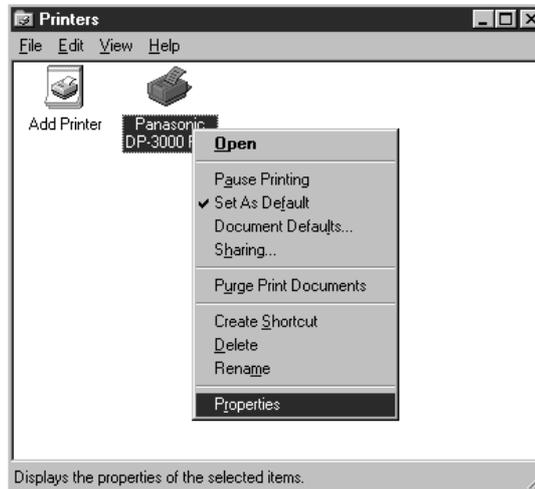
NOTE

1. In Windows NT 4.0, setting the properties depends on the log-in account. This section describes properties to be specified by an administrator (system manager).
See "Configuring the Printer Driver Settings (User)" for details of user properties. (See page 41)

Configuring the Printer Driver Settings
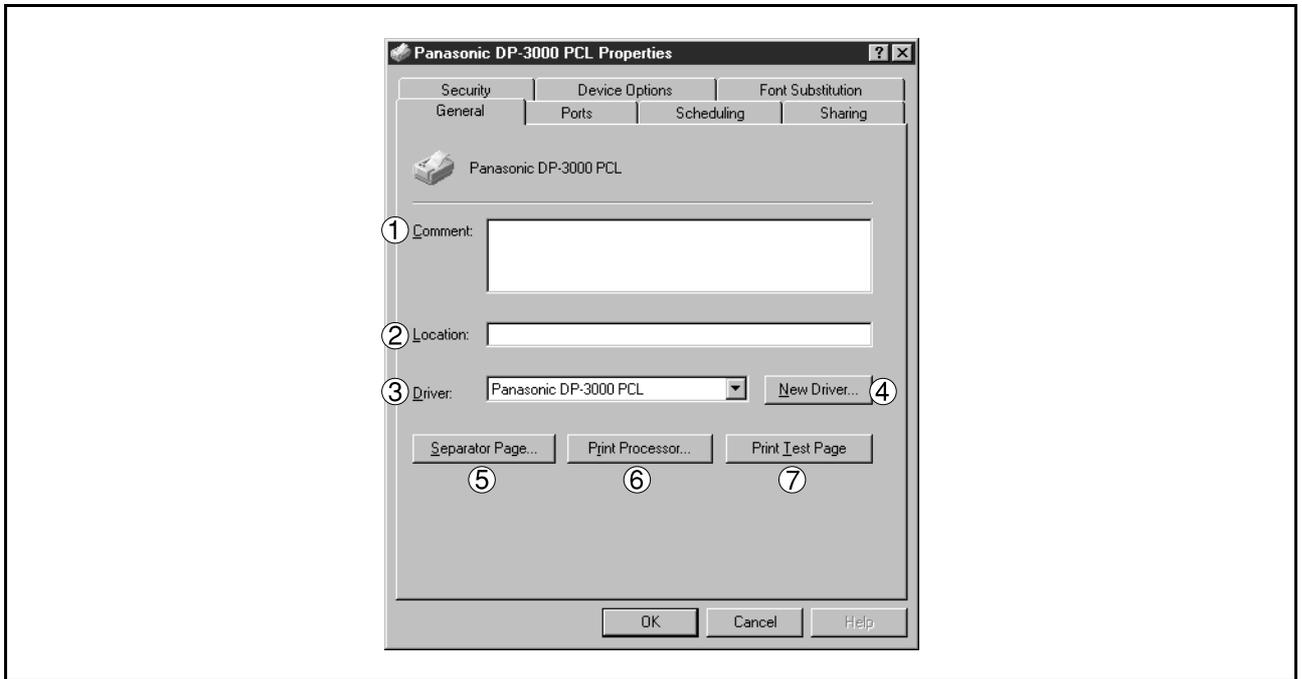
General Tab

1. **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 already set-up user will remain unchanged even if the comment is modified later.

2. **Location**
   Specify 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.

4. New Driver... **button**
   Updates or modifies the printer driver.

5. Separator Page... **button**
   This feature is not available on your machine.

6. Print Processor... **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.

7. Print Test Page **button**
   Prints a test page. This allows the user to verify if the printer is installed properly.

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Windows NT 4.0 (Administrator)

Ports Tab
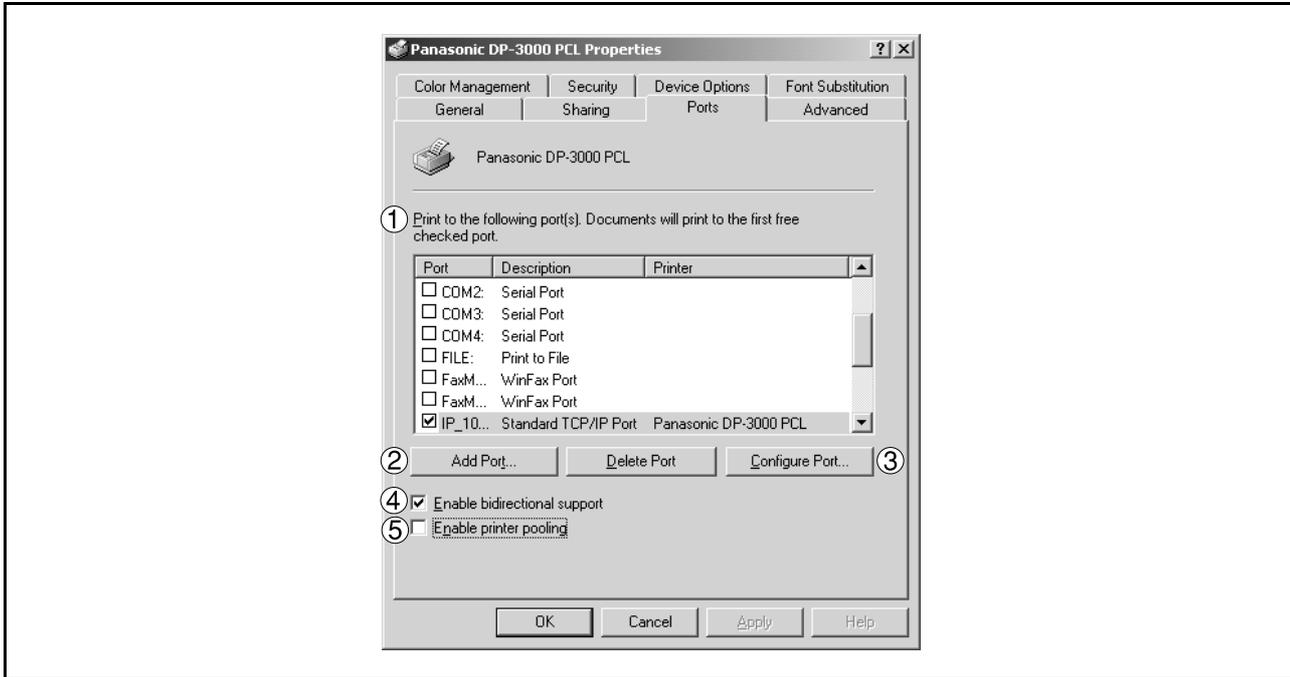
1. **Print to the following port(s)**
   Displays a list of available ports for printing (Port), their status (Description) and printers that are connected to these ports (Printer).

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**
   On a printer, this setting enables reception of configuration data and status data from computer. Be sure to check this checkbox when installing status monitor. Printing may be disabled without checking on the checkbox.

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

NOTE

1. *Specify time (seconds) waiting for the printer to be ready for printing. If a printer is not ready for printing after the specified time has elapsed, an error message is displayed.*
2. *If a timeout error occurs frequently upon printing a large size document, specify a larger value here.*

Printer Section

Configuring the Printer Driver Settings

Windows NT 4.0 (Administrator)

Scheduling Tab
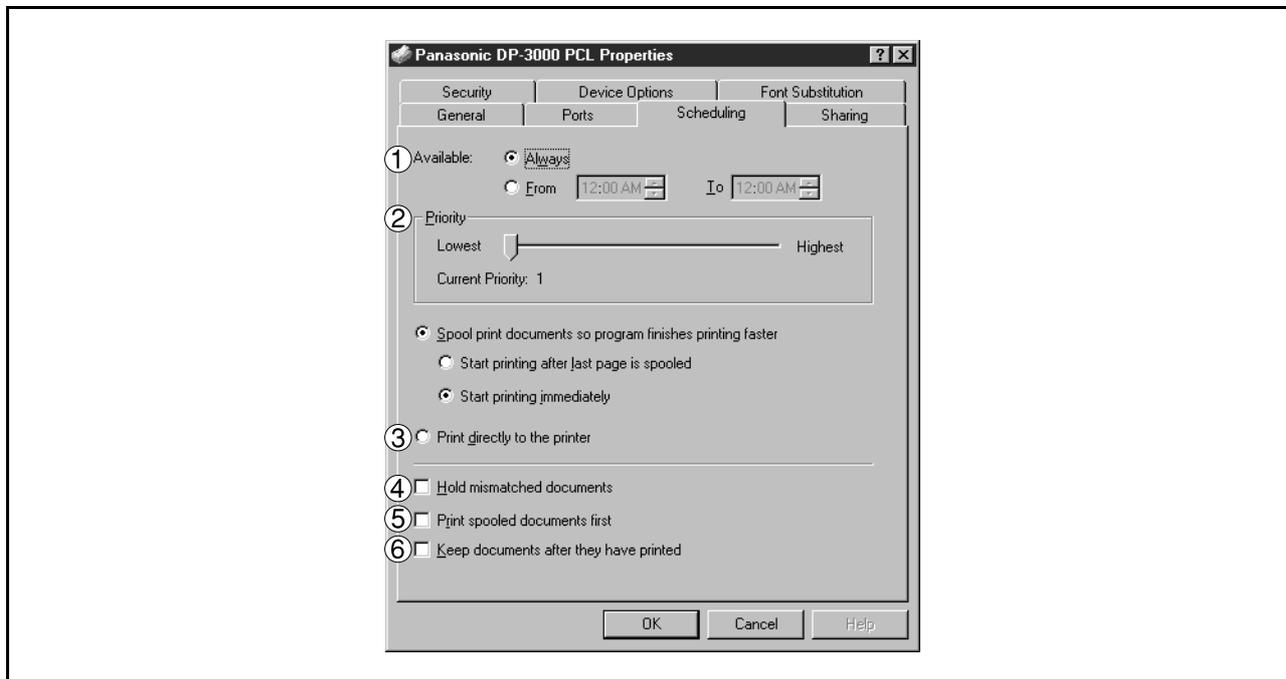
1. **Available**
   Schedules the printer for operation. Specify operating hours when **From-To** is selected.

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 the 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.

Windows NT 4.0 (Administrator)

Sharing Tab
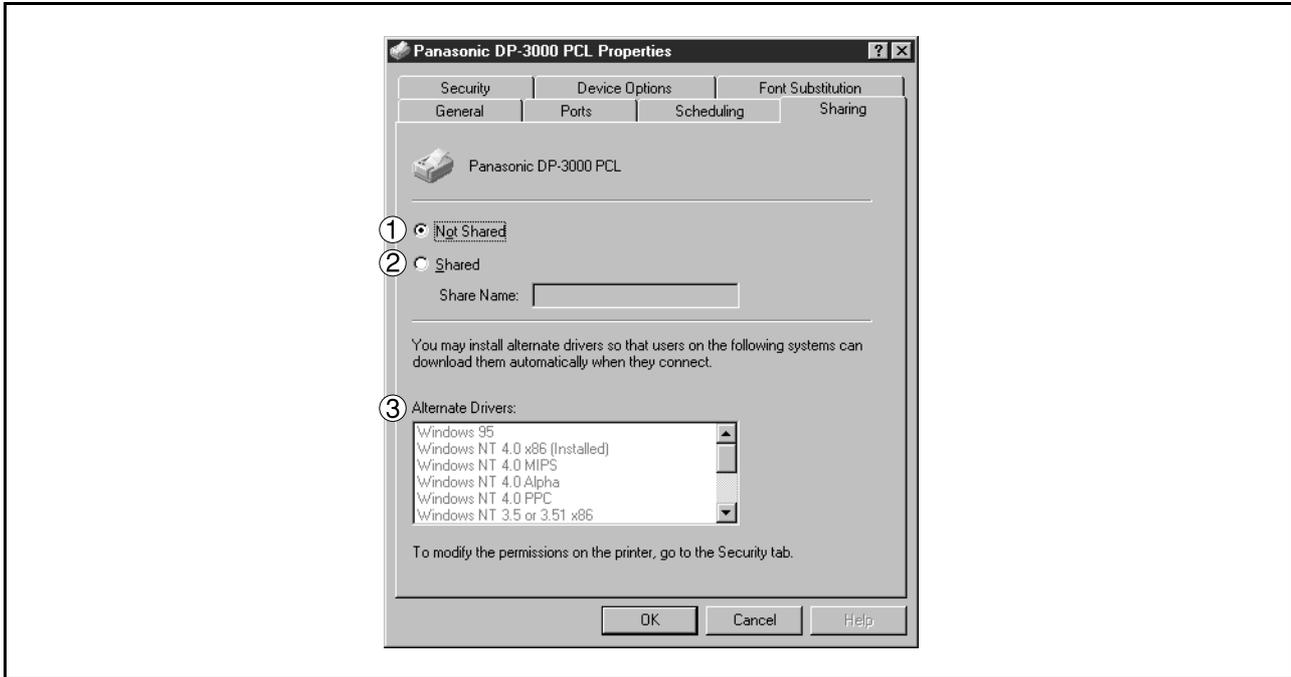
1. **Not Shared/Shared**
   Select whether to display or use this printer with other computers.

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 at this time will be displayed when other users view information about the printer on the network.

3. **Alternate Drivers**
   Specify the operating systems of other computers that might share this printer.

NOTE

1. *When sharing a printer on the network, the print driver is installed on one print server, 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 computers that will be sharing the printer.

Printer Section

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Configuring the Printer Driver Settings

Windows NT 4.0 (Administrator)

Security Tab
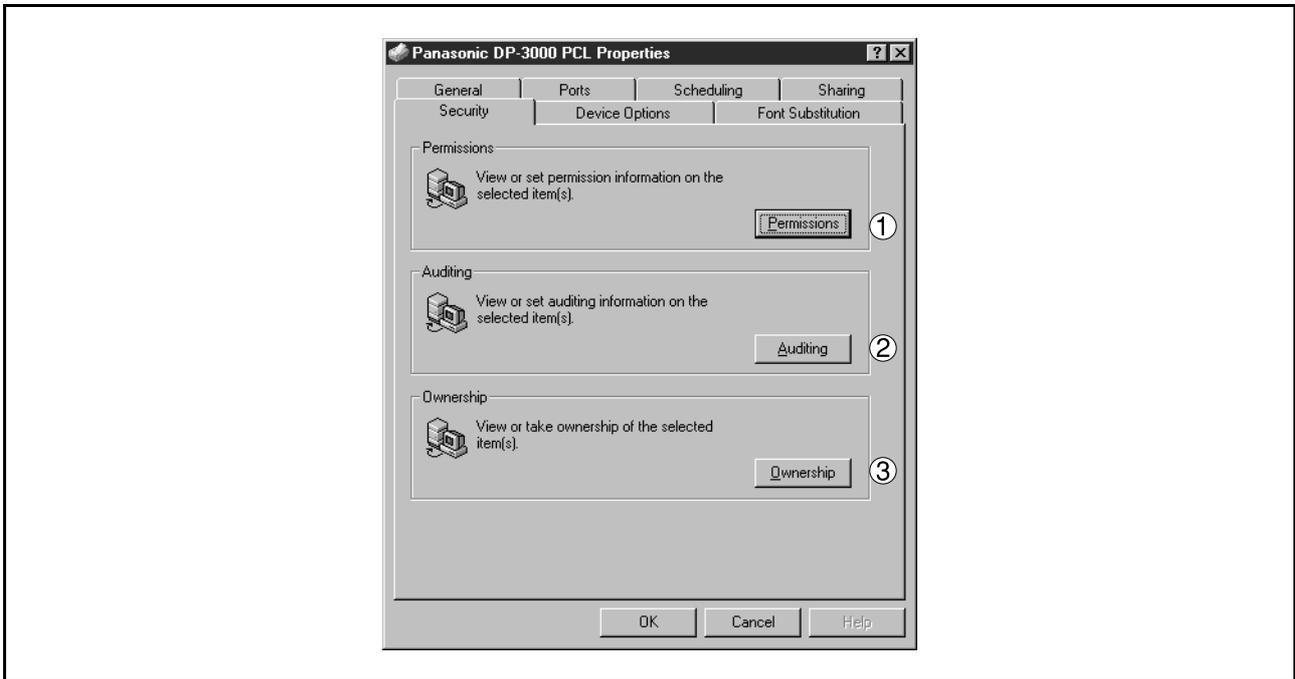
1. **Permissions button**
   Set printer access privileges.

2. **Auditing button**
   Displays the persons who used this printer and how they used.

3. **Ownership button**
   Set the ownership of the printer.

NOTE

1. In order to utilize these features, you need to have selected Audit... from User Manager's Policies and have enabled File and Object Access in the Audit Policy dialog box.

Windows NT 4.0 (Administrator)

Device Options Tab

1. **Security Print Password (For DP-1810F/2000/2500/3000)**
   Set the password for Security Print, to enable the feature.

2. **Duplex Unit (For DP-2000/2500)**
   Check this checkbox if the Automatic Duplex Unit (DA-MD200) is installed.

3. **Inner Tray (For DP-2000/2500/3000)**
   Check this checkbox if the Exit Tray (Inner) and the Dual-Path Exit Guide Unit (DA-XN200/FK200) are installed.
   Specifying inner bins, Inner 1 and Inner 2, is allowed for printing on the printer.

4. **Outer Tray (For DP-2000/2500/3000)**
   Check this checkbox if the Outer Tray (DA-XT200) is installed.
   Setting of this option is allowed when the Inner Tray option is enabled.

5. **Finisher (For DP-2000/2500/3000)**
   Check this checkbox if the 1-Bin Finisher (DA-FS200) is installed.
   Setting of this option is allowed when the Inner Tray option is enabled. The staple function also is selectable when this option is enabled.

6. **Number of Paper Tray**
   Select the number of available paper trays for the printer if an optional Paper Feed Module is installed.

7. **Printer/Fax Memory (For DP-1810F/2000/2500/3000)**
   Select the size of the Expansion Flash Memory Card or whether a Fax Option (2MB) has been installed, to enable Security Print.

8. | Restore Defaults | **button**
   Return all items in the **Device Options** Tab to standard settings (default).

9. | About... | **button**
   Displays the version information about the printer driver.

NOTE   *1. **Device Options** Tab specifies device-specific settings and settings of optional devices.*

Windows NT 4.0 (Administrator)

Font Substitution Tab

Displays and edit the Font Substitution Table.

In the original setting, the Font Substitution Table is set to substitute TrueType fonts with the most similar printer fonts. However, if you wish to modify the substitution, select a font from the list of TrueType fonts displayed at the top and then select a corresponding Printer font from the Substituted printer fonts list box.

Windows NT 4.0 (User)

To change the printer settings, open the dialog box for the printer properties by the following steps.

1 Select **Print** in the **File** menu of the application.

2 Select the printer model in the name box.

3 Click the [Properties...] button in the **Print** dialog box.

4 The printer properties dialog box appears. Click the desired tabs of the dialog box and specify the properties.

Printer Section

NOTE

1. In Windows NT 4.0, setting properties depends on the log-in account. This section describes properties to be specified by a user, upon executing a print operation on an application. See "Configuring the Printer Driver Settings (Administrator)" for details of administrator properties. (See page 33)

Configuring the Printer Driver Settings

Windows NT 4.0 (User)

Paper/Layout Tab

1. **Paper Size**
   Select a document size.

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

3. **Orientation**
   Select the print orientation (Portrait/Landscape).

4. **Copies (1-999)**
   Specify the number of copies to be printed. If the number of copies to be printed can be specified within the application, indicate one copy here and specify the number of copies in the Print dialog box of the application.

   DP-1510P/1810P/1810F/2010E/3000 Driver only

   ● **Printer controlled**
   The printer controls numbers of copies.
   (Prints faster utilizing the Sort Memory of printer.)

   Note: If the Collation can be specified on the application's Print dialog box, make sure it is unchecked in order for this setting to function properly.

   ● **Printer driver controlled**
   The printer driver controls number of copies.
   (Prints slower not utilizing the Sort Memory of printer.)
   ---

5. **Zoom (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.

Windows NT 4.0 (User)

6. **Magnify**

   Select a fixed enlargement/reduction ratio according to the paper size. Specifying the magnification ratio changes the Zoom to display the actual enlargement/reduction percentage.

7. **N in 1**

   Specify the layout pattern for printing multiple documents on a single sheet of paper.
   Selecting 2 in 1 or 4 in 1 changes the Zoom to display the actual enlargement/reduction percentage.

   Note: 2 in 1 or 4 in 1 allows the user to select the following layouts under the Position field:

2 in 1 Portrait

| 1 | 2 |

Pattern 1

| 2 | 1 |

Pattern 2

2 in 1 Landscape

| 1 |
| 2 |

Pattern 1

| 2 |
| 1 |

Pattern 2

4 in 1 Portrait

| 1 | 2 |
| 3 | 4 |

Pattern 1

| 1 | 3 |
| 2 | 4 |

Pattern 2

| 2 | 1 |
| 4 | 3 |

Pattern 3

| 3 | 1 |
| 4 | 2 |

Pattern 4

4 in 1 Landscape

| 1 | 2 |
| 3 | 4 |

Pattern 1

| 1 | 3 |
| 2 | 4 |

Pattern 2

| 2 | 1 |
| 4 | 3 |

Pattern 3

| 3 | 1 |
| 4 | 2 |

Pattern 4

8. Restore Defaults **button**

    Return all items in **Paper/Layout** Tab to standard settings (default).

9. About... **button**

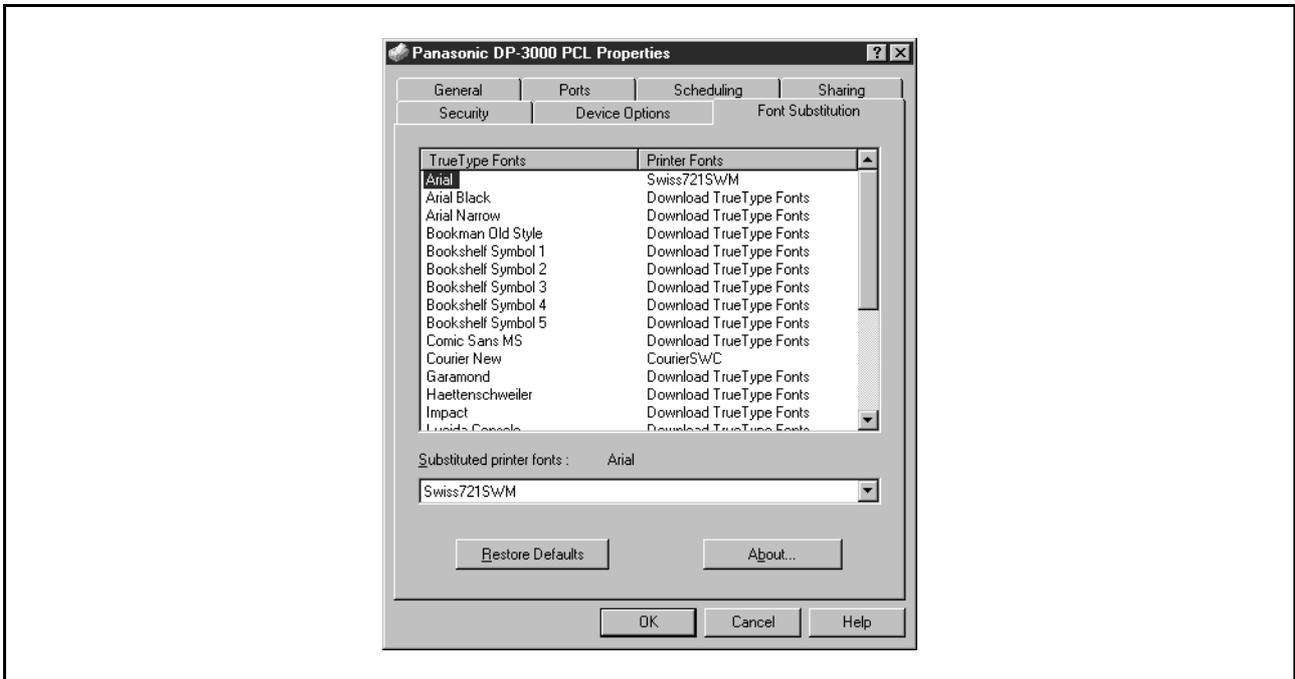   Displays the version information about the printer driver.

Configuring the Printer Driver Settings

Windows NT 4.0 (User)

Handling Tab

1. **Sorter**
   Select whether to Stack or Sort when printing multiple copies.
   Note 1) When the **Staple** is set to On, the **Rotate-Sort** and **Shift-Sort** is not activated even if it is selected.
   2) **Shift-Sort** is not available on DP-1510P/1810P/1810F/2010E.

2. **Printing on both sides (Duplex) (For DP-2000/2010E/2500/3000)**
   Select duplex printing for printing on both sides.
   Note 1) Duplex Printing is allowed only when the Dual-Path Exit Guide Unit, Paper Transport Unit and Automatic Duplex Unit (DA-FK200/FK210/MD200) are mounted.
   2) Check [Duplex Unit] check box in **Device Options** Tab.

3. **Flipping Direction (For DP-2000/2010E/2500/3000)**
   Select binding side (Long Edge/Short Edge) for duplex printing.

4. **Binding Margin (For DP-2000/2010E/2500/3000)**
   Select the binding margin upon duplex printing.
   The width of the binding margin is specified on the main unit.

5. **Output Tray (For DP-2000/2500/3000)**
   Specify the output destination. (Auto Selection, Inner Tray 1, Inner Tray 2)
   Note 1) Output Tray selection is allowed only with Dual-Path Exit Guide Unit, Paper Transport Unit, Exit Tray (Outer) or 1-Bin Finisher (DA-FK200/FK210/XT200/FS200) is installed.
   2) Check [Inner Tray], [Finisher / Outer Tray] check boxes in **Device Options** Tab.

Windows NT 4.0 (User)

6. **Staple (For DP-2000/2500/3000)**
   Specifying staple printing is allowed if the output bin is set to outer.
   Note 1) Staple printing is allowed only with Electronic Sorting Board (DA-ES200 : For DP-2000 only) and
   1-Bin Finisher (DA-FS200) mounted.
   2) Select "Sort" in the sort menu.
   3) Paper is stapled at the top left or at the top right. (See table below.)

Document orientation	Paper orientation	Stapling position
Letter A4	Letter A4	Top left — Letter A4
	Letter/A4	Top right — Letter A4 — Note) Stapling on Invoice/B5 sheet is not allowed.
Letter/A4	Letter A4	Top right — Letter/A4
	Letter/A4	Top left — Letter/A4 — Note) Stapling on Invoice/B5 sheet is not allowed.
Ledger Legal A3 FLS B4	Ledger/ Legal/ A3/FLS/B4	Ledger Legal A3 FLS B4 — Top right — Note) Stapling on Invoice/B5 sheet is not allowed.
Ledger/ Legal/ A3/FLS/B4		Top left — Ledger/ Legal/ A3/FLS/B4 — Note) Stapling on Invoice/B5 sheet is not allowed.

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Windows NT 4.0 (User)

7. **Security Print (For DP-1810F/2000/2500/3000)**
   Select to enable Security Print.
   Note: Security print is allowed only when the security print password is set
   on the Device Options Tab. (See page 39)

8. | Restore Defaults | **button**
   Return all items in the window to standard settings (default).

9. | About... | **button**
   Displays the version information about the printer driver.

Windows NT 4.0 (User)

Quality Tab
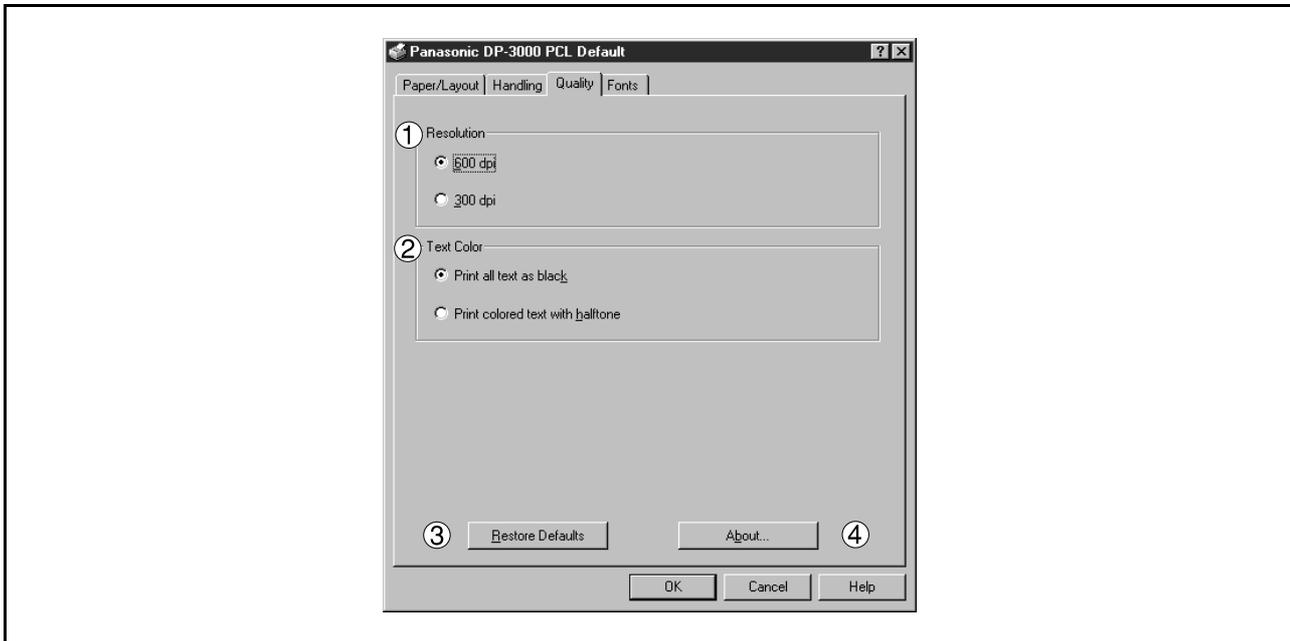
```
Panasonic DP-3000 PCL Default                          [?][X]

 Paper/Layout | Handling | Quality | Fonts |

  ┌─ Resolution ─────────────────────────────────────┐
  │   ● 600 dpi                                        │
  │                                                    │
  │   ○ 300 dpi                                        │
  └───────────────────────────────────────────────────┘

  ┌─ Text Color ─────────────────────────────────────┐
  │   ● Print all text as black                        │
  │                                                    │
  │   ○ Print colored text with halftone               │
  └───────────────────────────────────────────────────┘




       [ Restore Defaults ]          [ About... ]

                        [  OK  ]  [ Cancel ]  [ Help ]
```

1. **Resolution**
   Select the printer resolution (300dpi/600dpi).

2. **Text Color**
   Select the print control of colored text.

   • **Print all text as black**
     All colored text is printed as solid black.

   • **Print colored text with halftone**
     Colored text is printed using shades of gray.

3. [Restore Defaults] **button**
   Return all items in the **Quality** Tab to standard settings (default).

4. [About...] **button**
   Displays the version information about the printer driver.

NOTE

1. *dpi (dot per inch) means the number of dots contained in one inch. The higher the value is, the higher the resolution becomes.*

Printer Section

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Configuring the Printer Driver Settings

Windows NT 4.0 (User)

Fonts Tab
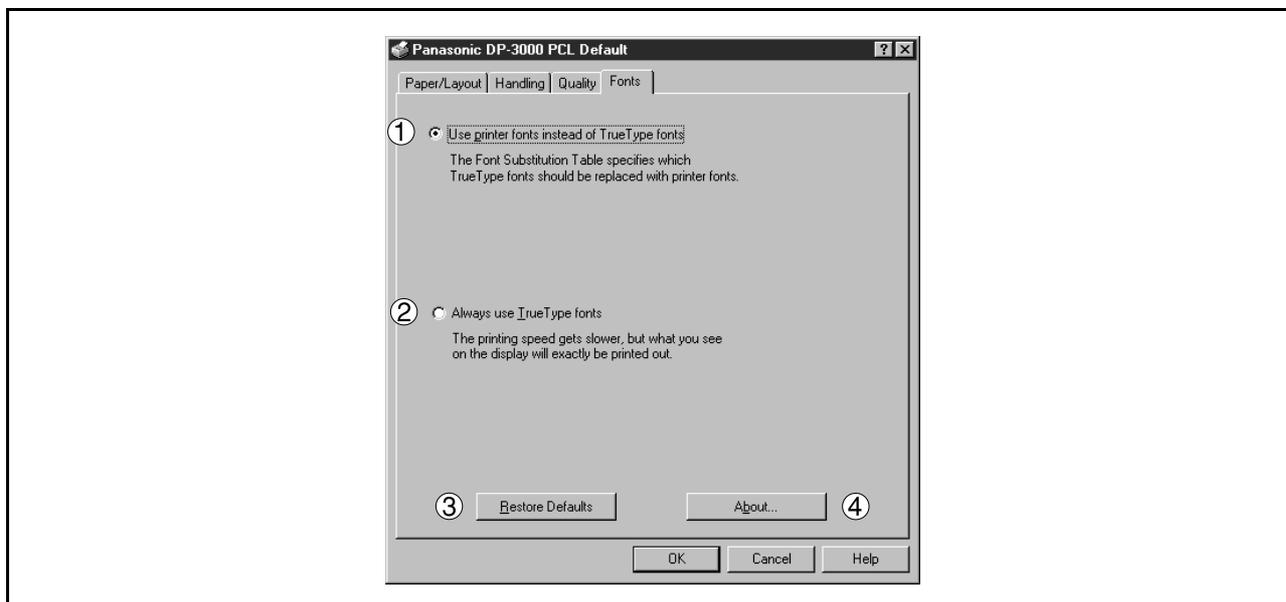
1. **Use printer fonts instead of TrueType fonts**
   Prints using printer fonts, substituting for the TrueType fonts used in the original document.
   The substituting printer font can be set with the Font Substitution Table.

2. **Always use TrueType fonts**
   Always uses TrueType fonts without substituting them with printer fonts.

3. | Restore Defaults | **button**
   Return all items in the window to standard settings (default).

4. | About... | **button**
   Displays the version information about the printer driver.

NOTE   *1. For information regarding setting the Font Substitution Table, see **"Font Substitution Tab"** (See page 40).*

Windows 2000/XP (Administrator)

To change the printer settings, open the dialog box for the printer properties by the following steps.

1 Log onto the computer/network with an account rights of Administrator.

2 Click the **Start** button, point to **Settings**, and then click **Printers**.

3 Right-click on the desired printer icon in the printers folder, and select **Properties** in the dropdown menu.

The printer properties dialog box appears.

```
Printers                                    _ | □ | X |

  File   Edit   View   Favorites   Tools   Help

  ← Back  ▾  →  ▾  🔁  | ⊘Search  🔁Folders  ⏱History  | ⬚⬚  »

  Address 🖼 Printers                          ▾  ⌐Go

   🖨                 🖨
  Add Printer      Panasonic
                   DP-300  ┌─────────────────────────────┐
                          │  Open                        │
                          ├─────────────────────────────┤
                          │ ✔ Set as Default Printer     │
                          │  Printing Preferences...     │
                          ├─────────────────────────────┤
                          │  Pause Printing              │
                          │  Cancel All Documents        │
                          ├─────────────────────────────┤
                          │  Sharing...                  │
                          │  Use Printer Offline         │
                          ├─────────────────────────────┤
                          │  Create Shortcut             │
                          │  Delete                      │
                          │  Rename                      │
                          ├─────────────────────────────┤
                          │  Properties                  │
                          └─────────────────────────────┘
```

Printer Section

NOTE

1. In Windows 2000/XP, setting the properties depends on the log-in accounts. This section describes properties to be specified by an administrator (system manager). See "Configuring the Printer Driver Settings" for details of user properties. (See page 58)

Configuring the Printer Driver Settings

Windows 2000/XP (Administrator)

General Tab
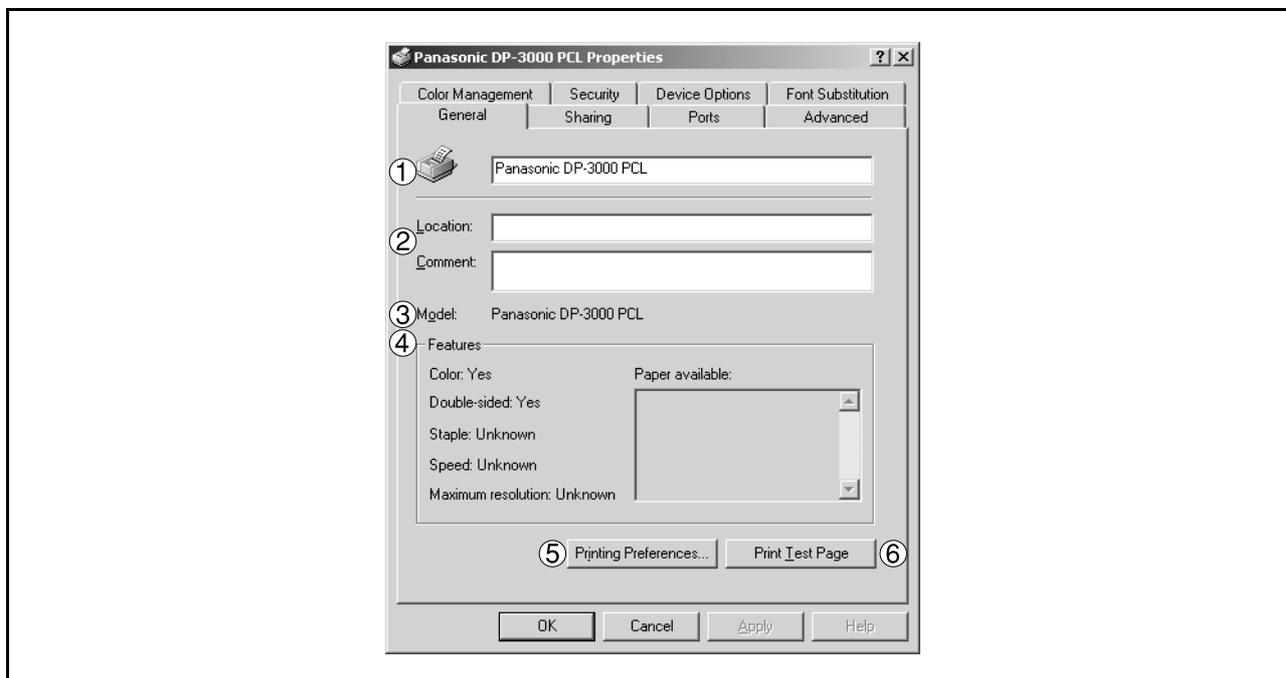
1. **Printer Name**
   Name of the printer specified upon installation is displayed.

2. **Location and Comment**
   Enter a comment about the location of the printer installation and information about the printer.

   If a printer is shared, the location and comment specified in this field appears when another user sets up this printer on his/her computer. After completion of setup, however, changing this comment does not update the location and comment appearing on users PCs.

3. **Model**
   Model name of the printer is displayed.

4. **Features**
   Functions and settings of the printer are displayed.

5. Printing Preferences... **button**
   Changes properties (print settings) specifiable for each user.
   Refer to "Configuring the Printer Driver Settings (User)" for details of settings (See page 58).

6. Print Test Page **button**
   Prints a test page. This allows the user to verify if the printer is installed properly.

Windows 2000/XP (Administrator)

Sharing Tab
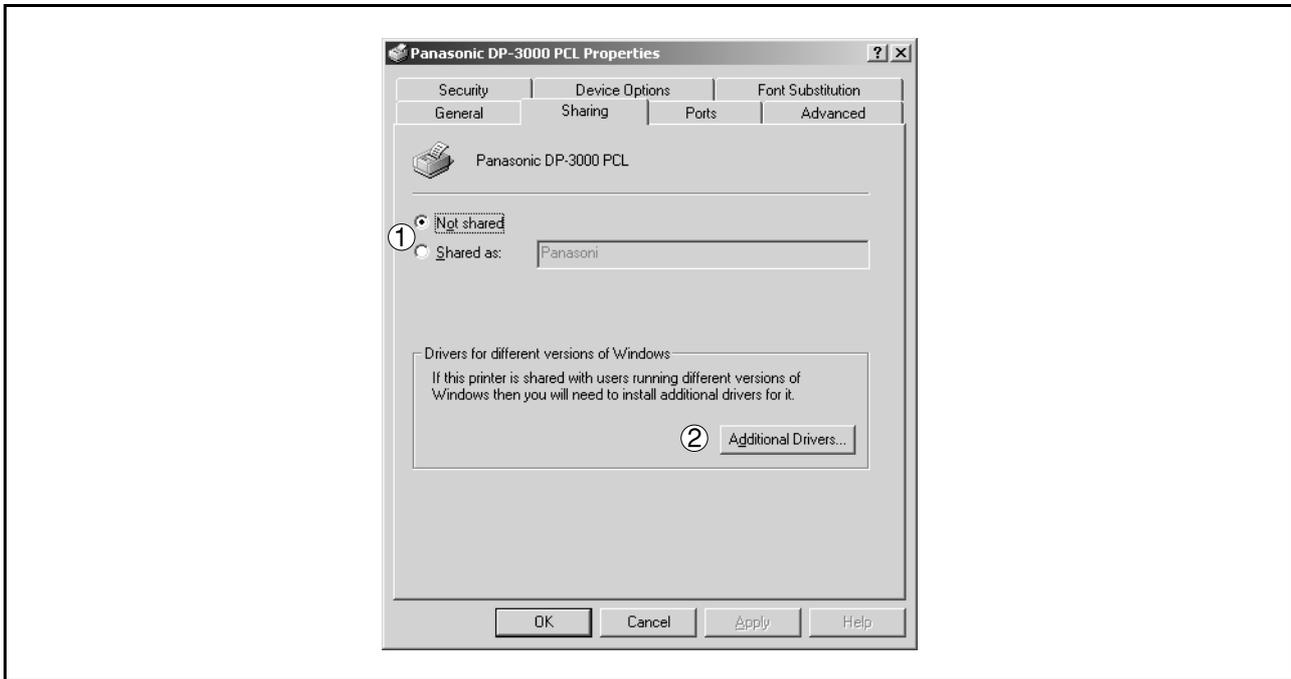
1. **Not Shared/Shared As**
   Specify if this printer is displayed or used on a computer of other users.

   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**
   Install additional printer drivers on the system.

   When users running different versions of Windows share a printer, installing additional drivers avoids the necessity for installing new drivers on their systems.

NOTE

1. When sharing a printer on the network, the print driver is installed on one print server, 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 computers that will be sharing the printer.

Printer Section

Configuring the Printer Driver Settings

Windows 2000/XP (Administrator)

Ports Tab
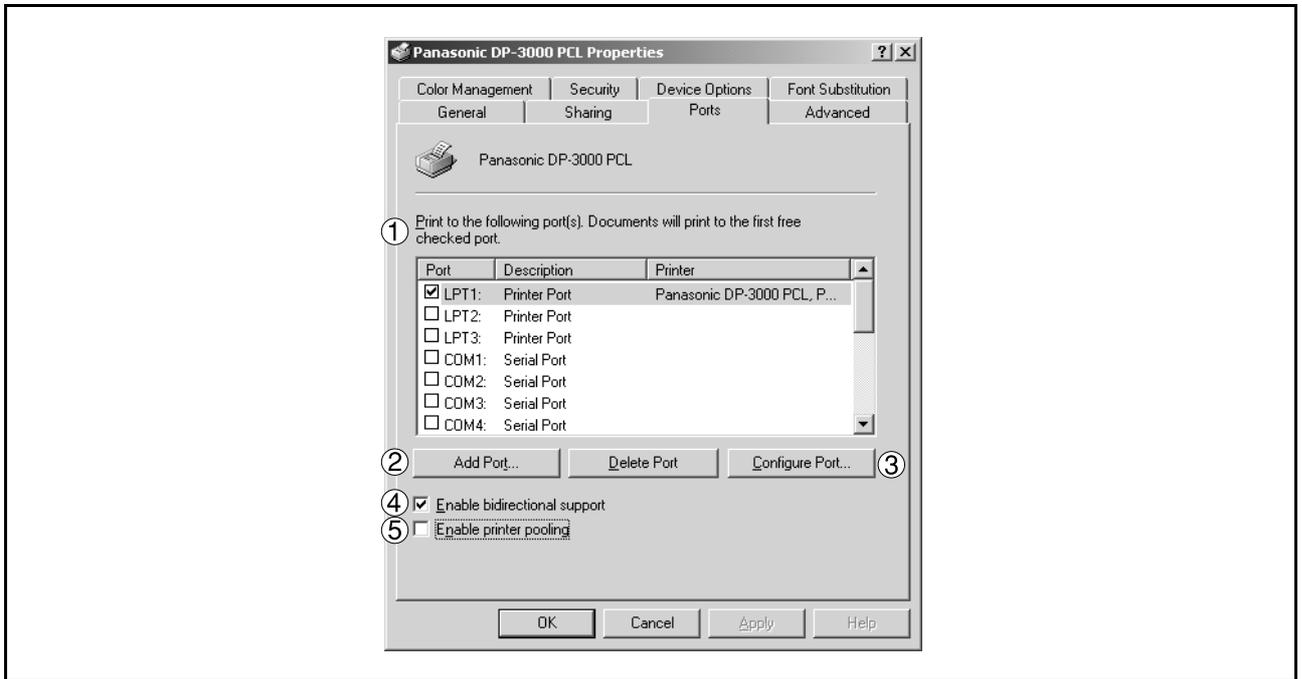
1. **Print to the following port(s)**
   Displays a list of ports that allows printing, their status (description), and printers connected to the ports.

2. [Add Port...] **/** [Delete Port...] **button**
   Adds/deletes a new port or a new network path.

3. [Configure Port...] **button**
   Configure the port that is selected. On a parallel port, wait time (in seconds) for retransmission is specified.

4. **Enable bidirectional support**
   On a printer, this setting enables reception of configuration data and status data from computer. Be sure to check this checkbox when installing status monitor. Printing may be disabled without checking on the checkbox.

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

NOTE
1. Specify the time (seconds) waiting for the printer to be ready for printing. If a printer is not ready for printing after the specified time has elapsed, an error message is displayed. If a timeout error occurs frequently upon printing a large size document, specify a larger value here.

Windows 2000/XP (Administrator)

Advanced Tab
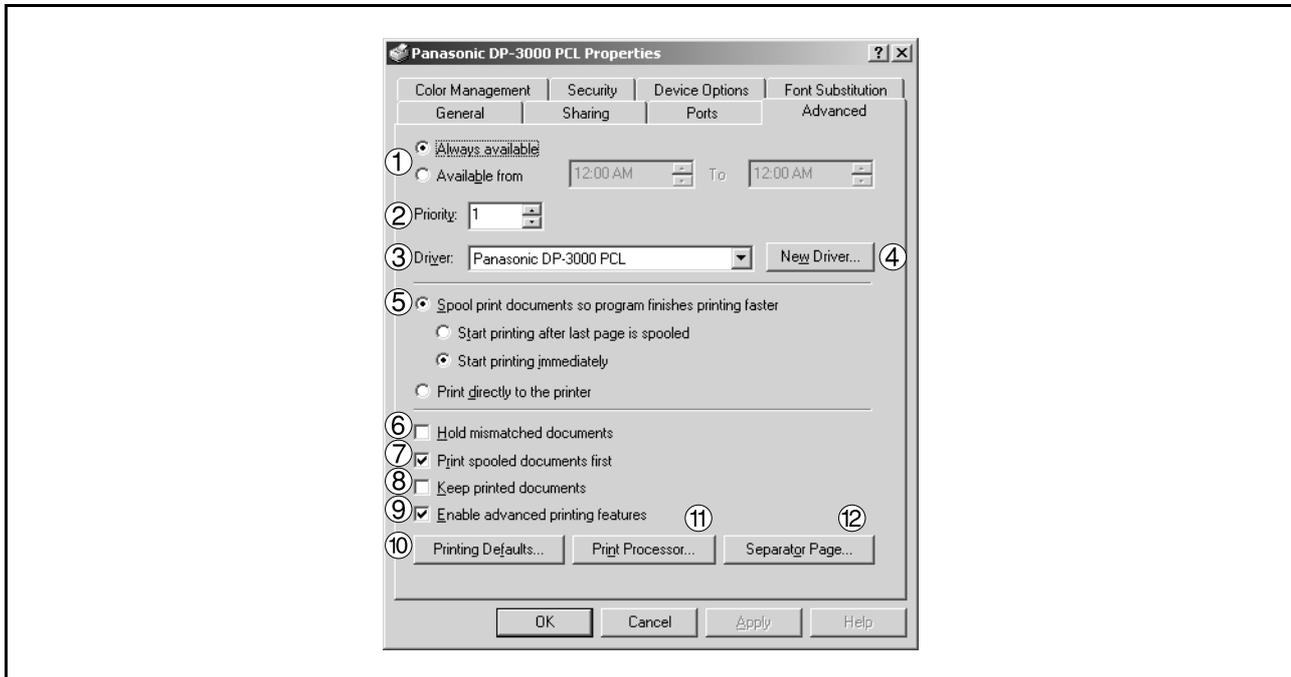
1. **Always available/Available from**
   Specify the operation schedule for a printer. Selecting **Available from** allows specifying an operation time.

2. **Priority**
   Specify the priority in printing. Priority is adjustable from 1 to 99. Document of higher priority are printed before those of lower priority.

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. New Driver... **button**
   Updates or modifies the printer driver.

5. **Spool print documents so program finishes printing faster**
   Specify the method of sending a document from the program 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**
   After printing, documents are kept in the queue. The documents are allowed to be reprinted directly from the queue regardless of the status of an application.

Configuring the Printer Driver Settings

9. **Enable advanced printing features**
   Enables advanced printing features. Optional features of the printer (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 disable the printing options also.

10. | Printing Defaults... | **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 "Configuring the Printer Driver Settings (User)" for detailed settings. (See page 58)

11. | Print Processor... | **button**
    Specify a print processor and data type to be used for printing.

    The processor and data type define operations of printers on Windows 2000/XP.

    Usually no change is required in the settings. Use of a printer on a special application, however, may require changes on the settings.

12. | Separator Page... | **button**
    This feature is not available on your machine.

Windows 2000/XP (Administrator)

Security Tab
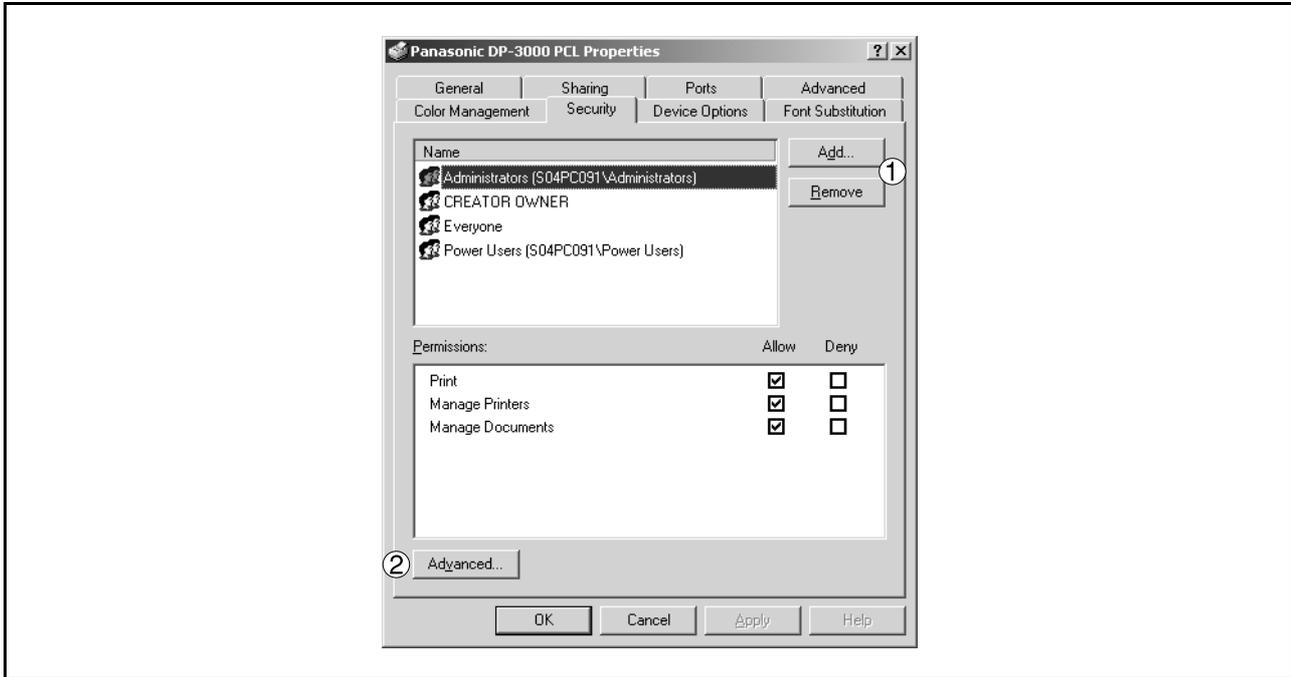
Displays a list of users and groups that are assigned access to this printer. A list of standard access permitted/prohibited for each group or user is displayed. Check the checkbox for permitting or prohibiting access. Gray checkbox indicates inheritance of access permission.

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

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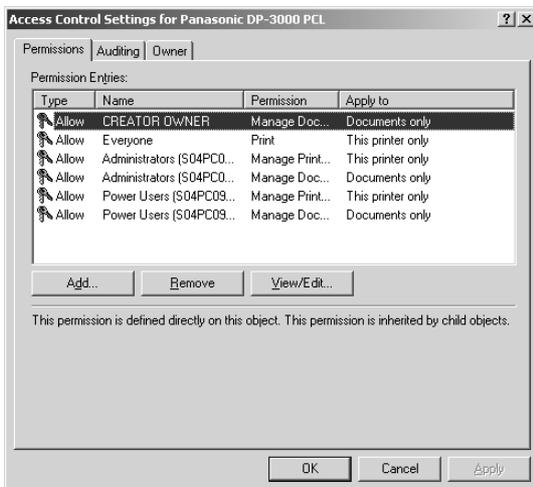
NOTE

1. Windows 2000/XP provides the capability of managing access to various objects (e.g. printers) by users.
2. Refer to manuals of Windows 2000/XP for details of access permission, audit, and owner.

Printer Section

Configuring the Printer Driver Settings

Windows 2000/XP (Administrator)

Device Options Tab

1. **Security Print Password (For DP-1810F/2000/2500/3000)**
   Set the password for Security Print, to enable the feature.

2. **Duplex Unit (For DP-2000/2500)**
   Check this checkbox if the Automatic Duplex Unit (DA-MD200) is installed.

3. **Inner Tray (For DP-2000/2500/3000)**
   Check this checkbox if the Exit Tray (Inner) and the Dual-Path Exit Guide Unit (DA-XN200/FK200) are installed.
   Specifying inner bins, Inner 1 and Inner 2, is allowed for printing on the printer.

4. **Outer Tray (For DP-2000/2500/3000)**
   Check this checkbox if the Outer Tray (DA-XT200) is installed.
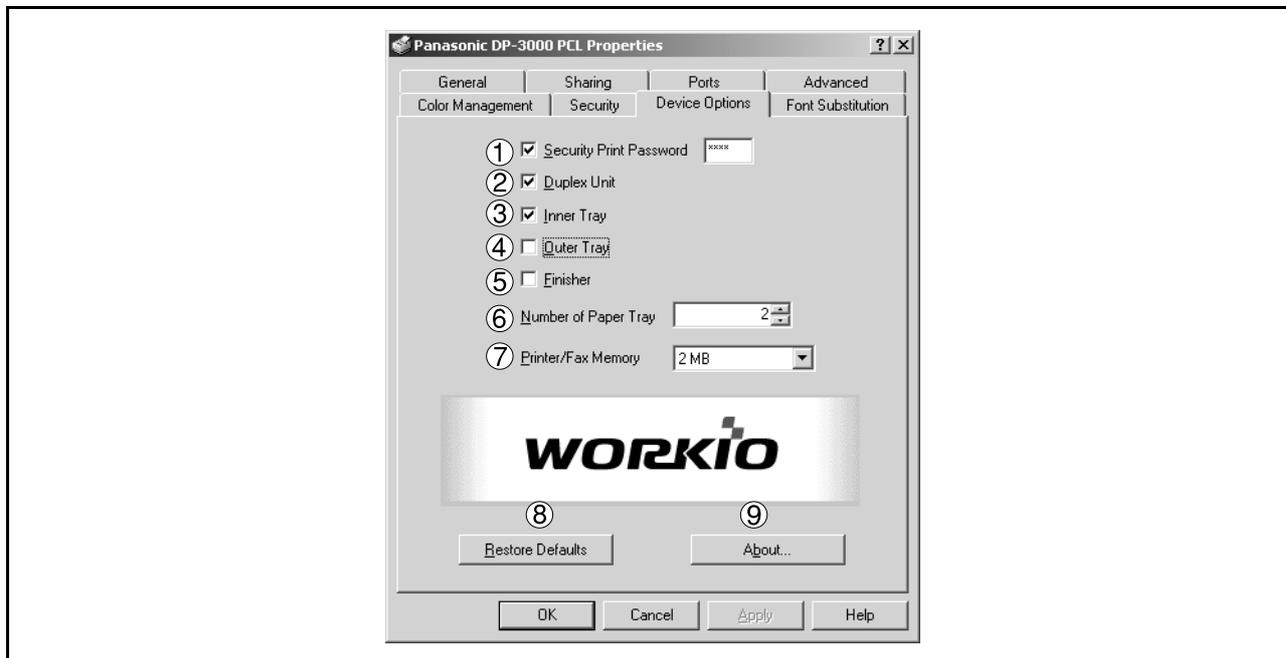   Setting of this option is allowed when the Inner Tray option is enabled.

5. **Finisher (For DP-2000/2500/3000)**
   Check this checkbox if the 1-Bin Finisher (DA-FS200) is installed.
   Setting of this option is allowed when the Inner Tray option is enabled. The staple function also is selectable when this option is enabled.

6. **Number of Paper Tray**
   Select the number of available paper trays for the printer if an optional Paper Feed Module is installed.

7. **Printer/Fax Memory (For DP-1810F/2000/2500/3000)**
   Select the size of the Expansion Flash Memory Card or whether a Fax Option (2MB) has been installed, to enable Security Print.

8. | Restore Defaults | **button**
   Return all items in the **Device Options** Tab to standard settings (default).

9. | About... | **button**
   Displays the version information about the printer driver.

NOTE   *1. **Device Options** Tab specifies device-specific settings and settings of optional devices.*

Windows 2000/XP (Administrator)

Font Substitution Tab

Displays and edit the Font Substitution Table.

In the original setting, the Font Substitution Table is set to substitute TrueType fonts with the most similar printer fonts. However, if you wish to modify the substitution, select a font from the list of TrueType fonts displayed at the top and then select a corresponding Printer font from the Substituted printer fonts list box.

Printer Section

Configuring the Printer Driver Settings

Windows 2000/XP (User)

Changes the printer settings. Display the printer settings dialog box by the steps below:

1 Select **Print** in the **File** menu of the application.

2 Select the printer model in the name box.

3 Click the | Properties... | button in the **Print** dialog box.

4 The printer properties dialog box appears. Click the desired tabs of the dialog box and specify the properties.

NOTE

1. *In Windows 2000/XP, setting the properties depends on the log-in accounts. This section describes properties to be specified by a user, upon executing a print operation on an application. See "Configuring the Printer Driver Settings (Administrator)" for details of administrator (system manager) properties. (See page 49)*

Windows 2000/XP (User)

Paper/Layout Tab

1. **Paper Size**
   Select a document size.

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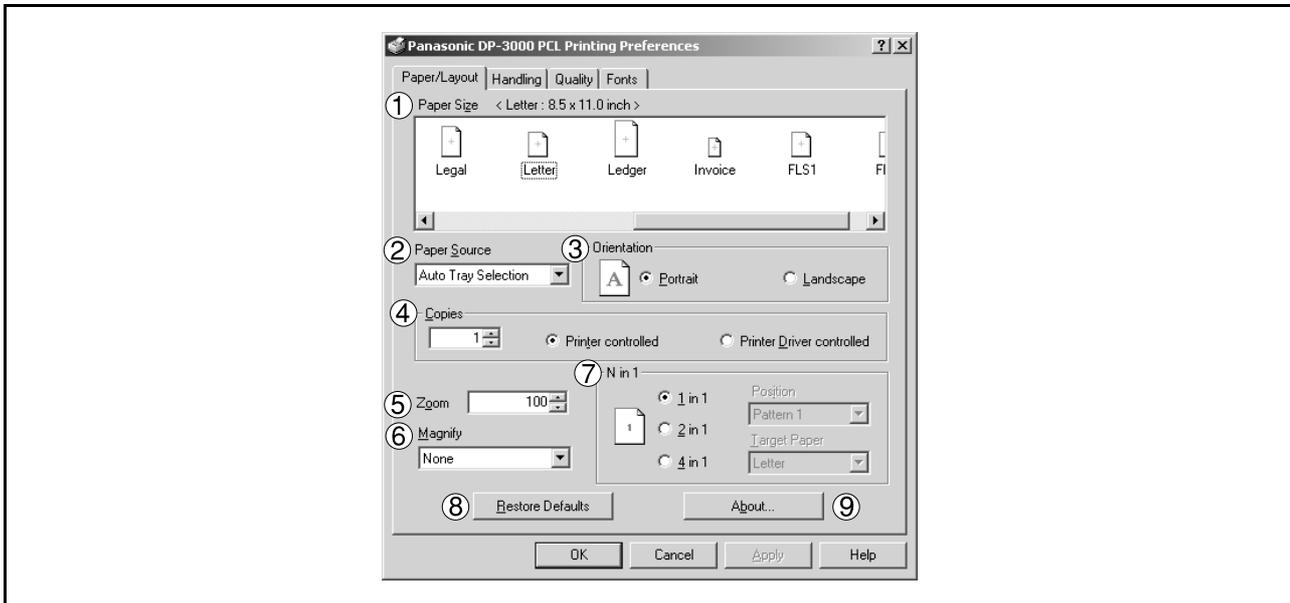   Specify where the paper you want to use is located in the machine. If you choose **Auto Selection**, the printer driver will automatically select an appropriate tray according to the Paper Size.

3. **Orientation**
   Select the print orientation (Portrait/Landscape).

4. **Copies (1-999)**
   Specify the number of copies to be printed. If the number of copies to be printed can be specified within the application, indicate one copy here and specify the number of copies in the Print dialog box of the application.

   DP-1510P/1810P/1810F/2010E/3000 Driver only

   ● **Printer controlled**
   The printer controls numbers of copies.
   (Prints faster utilizing the Sort Memory of printer.)

   Note: If the Collation can be specified on the application's Print dialog box, make sure it is unchecked in order for this setting to function properly.

   ● **Printer driver controlled**
   The printer driver controls number of copies.
   (Prints slower not utilizing the Sort Memory of printer.)
   ---

5. **Zoom (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.

Printer Section

Configuring the Printer Driver Settings

6. **Magnify**
   Select a fixed enlargement/reduction ratio according to the paper size. Specifying the magnification ratio changes the Zoom to display the actual enlargement/reduction percentage.

7. **N in 1**
   Specify the layout pattern for printing multiple documents on a single sheet of paper.
   Selecting 2 in 1 or 4 in 1 changes the Zoom to display the actual enlargement/reduction percentage.

   Note: 2 in 1 or 4 in 1 allows the user to select the following layouts under the Position field:

2 in 1 Portrait

Pattern 1   Pattern 2

2 in 1 Landscape

Pattern 1   Pattern 2

4 in 1 Portrait

Pattern 1   Pattern 2   Pattern 3   Pattern 4

4 in 1 Landscape

Pattern 1   Pattern 2   Pattern 3   Pattern 4

8. | Restore Defaults | **button**
   Return all items in **Paper/Layout** Tab to standard settings (default).

9. | About... | **button**
   Displays the version information about the printer driver.

Windows 2000/XP (User)

Handling Tab

1. **Sorter**
   Select whether to Stack or Sort when printing multiple copies.
   Note 1) When the **Staple** is set to On, the **Rotate-Sort** and **Shift-Sort** is not activated even if it is selected.
   2) **Shift-Sort** is not available on DP-1510P/1810P/1810F/2010E.

2. **Printing on both sides (Duplex) (For DP-2000/2010E/2500/3000)**
   Select duplex printing for printing on both sides.
   Note 1) Duplex Printing is allowed only when the Dual-Path Exit Guide Unit, Paper Transport Unit and Automatic Duplex Unit (DA-FK200/FK210/MD200) are mounted.
   2) Check [Duplex Unit] check box in **Device Options** Tab.

3. **Flipping Direction (For DP-2000/2010E/2500/3000)**
   Select binding side (Long Edge/Short Edge) for duplex printing.

4. **Binding Margin (For DP-2000/2010E/2500/3000)**
   Select the binding margin upon duplex printing.
   The width of the binding margin is specified on the main unit.

5. **Output Tray (For DP-2000/2500/3000)**
   Specify the output destination. (Auto Selection, Inner Tray 1, Inner Tray 2)
   Note 1) Output Tray selection is allowed only with Dual-Path Exit Guide Unit, Paper Transport Unit, Exit Tray (Outer) or 1-Bin Finisher (DA-FK200/FK210/XT200/FS200) is installed.
   2) Check [Inner Tray], [Finisher / Outer Tray] check boxes in **Device Options** Tab.

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Windows 2000/XP (User)

6. **Staple (For DP-2000/2500/3000)**
   Specifying staple printing is allowed if the output bin is set to outer.
   Note 1) Staple printing is allowed only with Electronic Sorting Board (DA-ES200 : For DP-2000 only) and 1-Bin Finisher (DA-FS200) mounted.
   2) Select "Sort" in the sort menu.
   3) Paper is stapled at the top left or at the top right. (See table below.)

Document orientation	Paper orientation	Stapling position
Letter A4	Letter A4	Top left — Letter A4
	Letter/A4	Top right — Letter A4 — Note) Stapling on Invoice/B5 sheet is not allowed.
Letter/A4	Letter A4	Top right — Letter/A4
	Letter/A4	Top left — Letter/A4 — Note) Stapling on Invoice/B5 sheet is not allowed.
Ledger Legal A3 FLS B4	Ledger/ Legal/ A3/FLS/B4	Top right — Ledger Legal A3 FLS B4 — Note) Stapling on Invoice/B5 sheet is not allowed.
Ledger/ Legal/ A3/FLS/B4		Top left — Ledger/ Legal/ A3/FLS/B4 — Note) Stapling on Invoice/B5 sheet is not allowed.

Windows 2000/XP (User)

7. **Security Print (For DP-1810F/2000/2500/3000)**
   Select to enable Security Print.
   Note: Security print is allowed only when the security print password is set
   on the Device Options Tab. (See page 56)

8. | Restore Defaults | **button**
   Return all items in the window to standard settings (default).

9. | About... | **button**
   Displays the version information about the printer driver.

Configuring the Printer Driver Settings

Windows 2000/XP (User)

Quality Tab

1. **Resolution**
   Select the printer resolution (300dpi/600dpi).

2. **Text Color**
   Select the print control of colored text.

   • **Print all text as black**
     All colored text is printed as solid black.

   • **Print colored text with halftone**
     Colored text is printed using shades of gray.

3. [Restore Defaults] **button**
   Return all items in the **Quality** Tab to standard settings (default).

4. [About...] **button**
   Displays the version information about the printer driver.

NOTE

*1. **dpi** (dot per inch) means the number of dots contained in one inch. The higher the value is, the higher the resolution becomes.*

Windows 2000/XP (User)

Fonts Tab
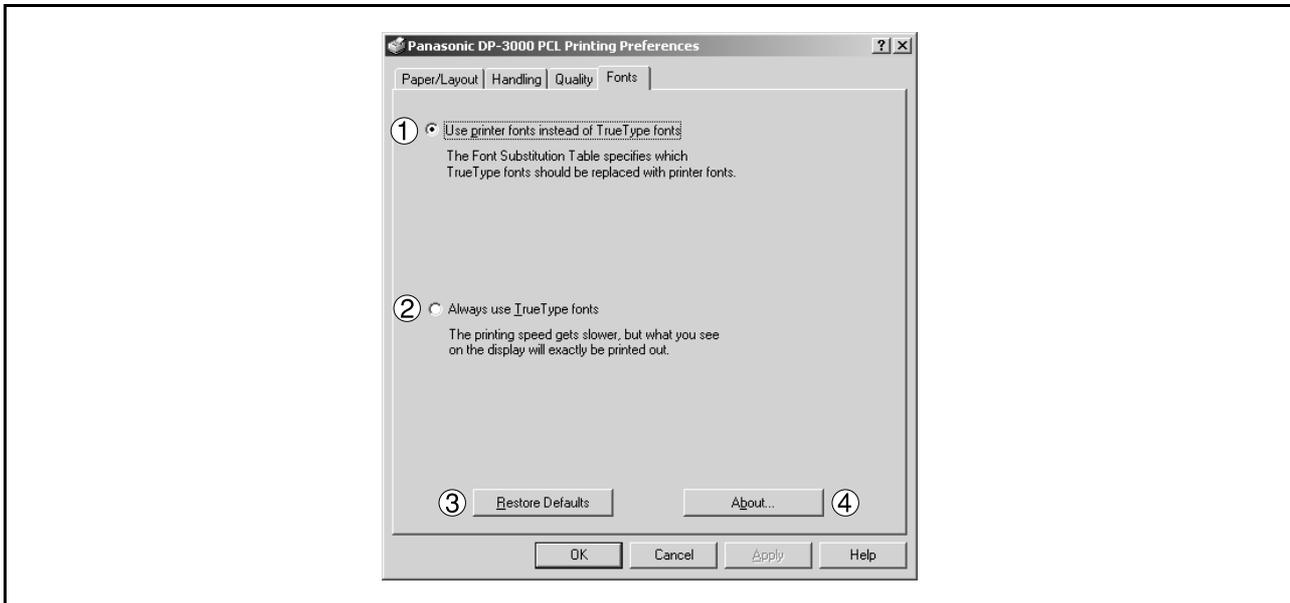
1. **Use printer fonts instead of TrueType fonts**
   Prints using printer fonts, substituting for the TrueType fonts used in the original document.
   The substituting printer font can be set with the Font Substitution Table.

2. **Always use TrueType fonts**
   Always uses TrueType fonts without substituting them with printer fonts.

3. | Restore Defaults | **button**
   This will reset all items in the window to their default values and settings.

4. | About... | **button**
   This will display the version of the printer driver being used.

NOTE
*1. For information regarding setting the Font Substitution Table, see **"Font Substitution Tab"** (See page 57).*

Print Operation

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.
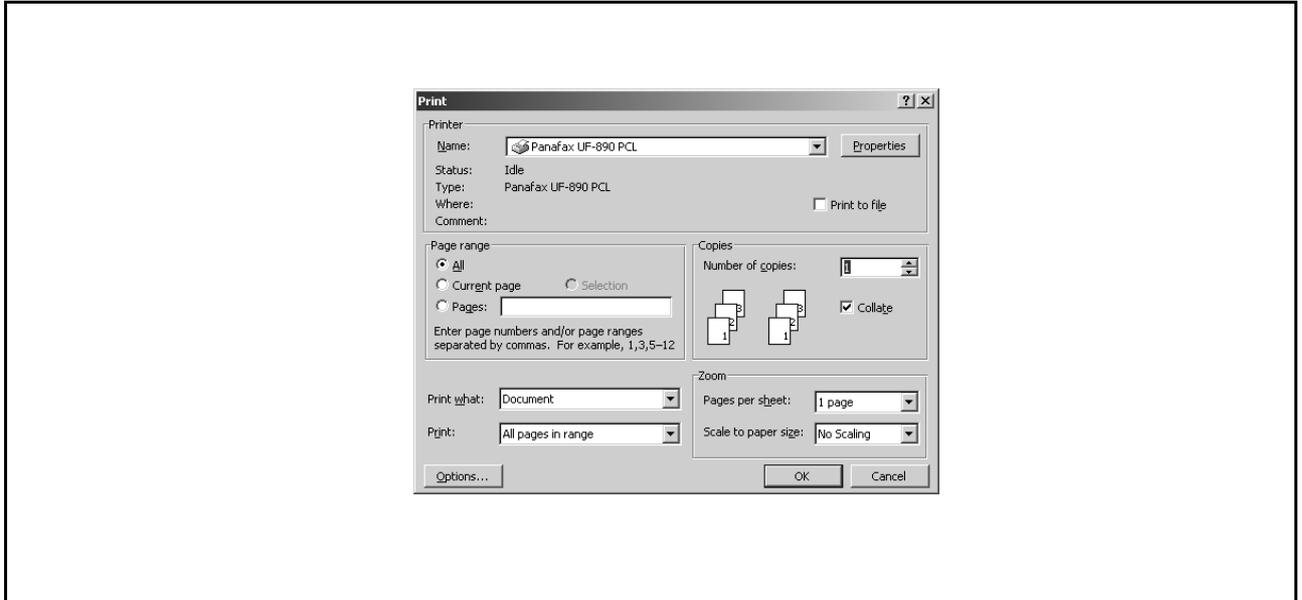
To print from most Windows applications, use the **Print...** command on the **File** menu. Selecting the **Print...** command typically displays the following Print dialog box:

After selecting the print range to be printed and the number of copies, click on [OK] to start printing.

While documents are being printed, a printer icon appears on 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 on the System Tray to open and verify the details of the print queue in the spooler.

NOTE

1. *Follow the steps below to set a default printer:*
   1) *Click the **Start** button and select **Printers** in the **Settings** menu.*
   2) *Select the printer icon in the window and select **[Set As Default]** in dropdown menu by right-clicking it. Then the check mark is displayed.*

Printing on Network

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

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

The settings for printer sharing is specified by the following steps:

Printer server (PC connected to a printer)

1   Install the printer driver on a computer to be connected to the machine.

2   Click the **Start** button, point to **Settings**, and then click **Printers**.

3   Right-click on the desired printer icon and select **[Sharing...]** in the dropdown menu.

4   Select **Shared As** in the properties dialog box.

5   Click on the [OK] button.

Upon completion of the setting, the shape of the icon changes indicates it is shared.

Printer Section

NOTE

1. *Refer to the manual of the network cards and Windows users guide for connection among computers.*
2. *On Windows 98/Me, a computer connected to a printer must have been set up to allow printer sharing by the following operations:*
   1) *Double-click on* **Network** *in control panel, and then click* [File and Print Sharing...] *button in the* **Network Configuration** *tab.*
   2) *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 other computer's printer)

1 Click the **Start** button, point to **Settings**, and then click **Printers**.

2 Double-click **Add Printer** in the printers folder.
Add Printer Wizard appears.

Click on the [Next] button.

3 Select **Network Printer**.
Click on the [Next] button.

4 Specify the other computer's printer by entering the network path.

Then, complete the installation by following the instruction of the Add Printer Wizard.

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

Troubleshooting

Printing operation fails

If the Panasonic Printing System is not printing or working as expected, and if you are not sure what to do, start your troubleshooting by checking the basics below:

• The connection cable (Parallel Printer Cable or Ethernet LAN Cable) is properly connected.
• The length of the parallel printer cable is not longer than 20 ft. (6 m).
• Power of the device is turned ON.
• Paper is loaded properly on the device.
• Error message is not displayed on the device.

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

Windows 98/Me   [General Tab]   (See page 21)

Windows NT 4.0   [General Tab]   (See page 34)

Windows 2000/XP   [General Tab]   (See page 50)

Troubleshooting

Document is not printed correctly

Problem	Action
Character is not printing in the correct positions or the characters near the edges of the page are missing.	• Check and specify the paper size and orientation settings in the printer driver to coincide with the application. • Check if the specified paper is loaded in the device. • Increase the Page Margins in the application. The device requires minimum margins of ¼ inches (4 mm) on all sides.
The font type is wrong.	• Check if the selected font is installed in the PC. • Check if the selected font is being replaced with a proper printer font in the Font Substitution Table of the Printer Driver Properties dialog box. • Select **"Always use TrueType fonts"** from the **Font** tab of the Printer Driver Properties dialog box.
The character is not smooth.	• Select an outline font instead of a bit map font.
Fine line print cannot be obtained.	• Select 600 dpi resolution.
Poor photograph print quality.	• Select 600 dpi resolution.
Different character or symbol from the document is printed.	• Check if the proper printer driver is selected.
Printing is exceedingly slow.	• Select the Spool settings **"Start printing after first page is spooled"** from the **Details** tab of the Printer Driver Properties dialog box. • Select 300 dpi resolution.

Error messages displayed on the computer

| Problem	Action
Error in writing to LPT1. Unable to write to the Specified device.	Verify that the device is connected to the computer correctly. Verify that the power of the device is turned on. Verify that the paper is properly loaded.

Error in writing to LPT1.
Printer timeout error occurred.
	Verify that the power of the device is turned on.
	Excessive data volume or number of pages may overflow the device's memory, disabling data reception.
	Increase the timeout setting value in properties (for transmission retry).
	• Reference :
	  Windows 98/Me [Details Tab] (See page 22)
	  Windows NT 4.0 [Ports Tab] (See page 35)
	  Windows 2000/XP [Ports Tab] (See page 52)

Printing is disabled due to an error in the current printer settings.	Differences in settings such as paper size or printing orientation exists between the application and the printer driver. Specify the correct settings.
Network Print DLL Error.	• Check if the device is turned "On" and the 10/100 Base-TX cable is properly connected. • Printer Properties may be incorrectly configured. (i.e. Printer Port)
Network Port is Busy.	• The device may be processing someone's print job, please wait and try again later. • The device is either Transmitting or Receiving an email.
Cannot print because an error is found in the current printer setting.	• Verify and specify the paper size or orientation to coincide with the application and the printer driver settings.

Appendix

Printing Area

Top

0.1/2.5

0.1/2.5

0.1/2.5

0.1/2.5

Bottom

(Unit: inches/mm)
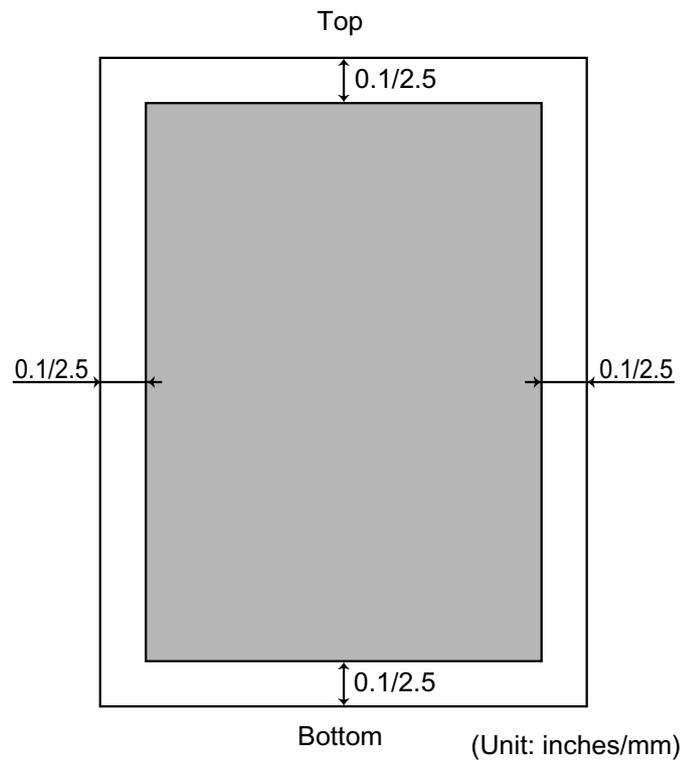
Parallel Interface Connector

The printer has a parallel interface for connecting to the PC.

Shape of Connector
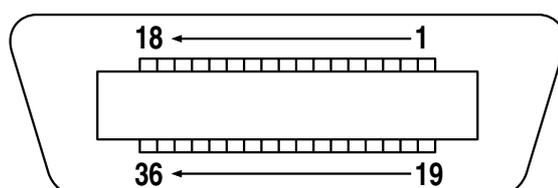
Signal lines and pin assignment

No.	I/O	Signal name	No.	I/O	Signal name
1	I	/STB	19	-	GND
2	I/O	DATA0	20	-	GND
3	I/O	DATA1	21	-	GND
4	I/O	DATA2	22	-	GND
5	I/O	DATA3	23	-	GND
6	I/O	DATA4	24	-	GND
7	I/O	DATA5	25	-	GND
8	I/O	DATA6	26	-	GND
9	I/O	DATA7	27	-	GND
10	O	/ACK	28	-	GND
11	O	BUSY	29	-	GND
12	O	PE	30	-	GND
13	I	SELECT	31	I	/INIT
14	O	/AUTOFD*	32	O	/FAULT
15	-	Not Used	33	-	Not Used
16	-	GND	34	-	Not Used
17	-	GND	35	-	Not Used
18	O	VCC	36	I	/SELIN*

*Signal used for bidirectional communication

Signal functions

Signal name	Function
/STB	Signal for sending data to printer. Steady-state value is **High**. Printer reads data until this signal becomes from **Low** to **High**.
DATA0 to DATA7	Input signal for receiving 8-bit data. Logic 1 is **High**. **DATA0** is **LSB** and **DATA7** is **MSB**.
/ACK	Signal indicating that printer has read data into device completely. This signal is output in response to **/STB**.

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Appendix

Parallel Interface Connector

Signal name	Function
BUSY	Signal indicating that printer is unable to receive data. Printer is able to receive data when this signal is **Low**.
PE	Signal indicating Paper Out of printer. This signal is **Low** when paper is loaded and is **High** when paper is out.
SELECT	Signal indicating that printer is under online status. Printer is capable of receiving data when this signal is **High**.
/AUTOFD	Signal used for bidirectional communication.
GND	Ground
VCC	Signal indicating that the power of printer is on. This signal allows verifying ON/OFF status of power of printer and connection status of printer cable.
/INIT	Signal for initializing printer. Steady-state value is **High**. Printer is initialized by **Low**.
/FAULT	Signal indicating that printer is faulty.
/SELIN	Signal used for bidirectional communication.

Font Table

Font Code	PCL Font	Compatible font
0	CG-Times	Dutch 810 SWC
1	CG-Times Italic	Dutch 810 Italic SWC
2	CG -Times Bold	Dutch 810 Bold SWC
3	CG-Times Bold Italic	Dutch 810 Bold Italic SWC
4	Univers	Swiss 742 SWC
5	Univers Italic	Swiss 742 Italic SWC
6	Univers Bold	Swiss 742 Bold SWC
7	Univers Bold Italic	Swiss 742 Bold Italic SWC
8	Univers Condensed	Swiss 742 Condensed SWC
9	Univers Condensed Italic	Swiss 742 Condensed Italic SWC
10	Univers Condensed Bold	Swiss 742 Condensed Bold SWC
11	Univers Condensed Bold Italic	Swiss 742 Condensed Bold Italic SWC
12	Antique Olive	Incised 901 SWC
13	Antique Olive Italic	Incised 901 Italic SWC
14	Antique Olive Bold	Incised 901 Bold SWC
15	CG Omega	Zapf Humanist 601 SWC
16	CG Omega Italic	Zapf Humanist 601 Italic SWC
17	CG Omega Bold	Zapf Humanist 601 Bold SWC
18	CG Omega Bold Italic	Zapf Humanist 601 Bold Italic SWC
19	Garamond	Aldine 430 Original Garamond SWC
20	Garamond Italic	Aldine 430 Original Garamond Italic SWC
21	Garamond Bold	Aldine 430 Original Garamond Bold SWC
22	Garamond Bold Italic	Aldine 430 Original Garamond Bold Italic SWC
23	Courier Medium	Fixed Pitch 810 Courier Roman SWC
24	Courier Italic	Fixed Pitch 810 Courier Italic SWC
25	Courier Bold	Fixed Pitch 810 Courier Bold SWC
26	Courier Bold Italic	Fixed Pitch 810 Courier Bold Italic SWC
27	Letter Gothic Regular	Fixed Pitch 850 Letter Gothic 12 pitch//text SWC
28	Letter Gothic Bold	Fixed Pitch 850 Letter Gothic Bold 12 pitch//text SWC
29	Letter Gothic Italic	Fixed Pitch 850 Letter Gothic Italic 12 pitch//text SWC
30	Albertus Medium	Flareserif 821 SWC
31	Albertus Extrabold	Flareserif 821 Extra Bold SWC
32	Clarendon Condensed	Clarendon 701 Condensed SWC
33	Coronet	Ribbon 131 SWC
34	Marigold	Audrey Two SWC
35	Arial	Swiss 721 SWM
36	Arial Italic	Swiss 721 Oblique SWM
37	Arial Bold	Swiss 721 Bold SWM
38	Arial Bold Italic	Swiss 721 Bold Oblique SWM
39	Times New Roman	Dutch 801 SWM
40	Times New Roman Italic	Dutch 801 Italic SWM
41	Times New Roman Bold	Dutch 801 Bold SWM
42	Times New Roman Bold Italic	Dutch 801 Bold Italic SWM
43	Symbol	Symbol SWA
44	Wingdings	Wingbats SWM

Troubleshooting

Appendix

Symbol Table

No.	Symbol Set
0	Legal (HP Legal)
1	ISO 4 (United Kingdom)
2	ISO 6 (ANSI, ASCII)
3	ISO 11 (Swedish/French)
4	ISO 15 (Italian)
5	ISO 17 (Spanish)
6	ISO 21 (German)
7	ISO 60 (Norwegian, v.1)
8	ISO 69 (French)
9	ISO 8859/2 Latin 2
10	ISO 8859/2 Latin 5
11	PC-8 (IBM-8, Code Page 437)
12	PC-8 DN (Denmark/Norway)
13	PC-850 (IBM-850)
14	PC-8 TK (Code Page 437T)
15	PC-852 Latin 2
16	Roman 8
17	Desk Top
18	ECMA 94 (Latin 1)
19	Macintosh
20	Math 8 (HP Math 8)
21	Microsoft Publishing
22	Pi Font (HP Pi Font)
23	PS Math
24	PS Text
25	Ventura International
26	Ventura Math
27	Ventura US
28	Windows
29	Windows 3.1
30	Windows 3.1 Latin 2
31	Windows 3.1 Latin 5
32	Symbol, Windows 3.1
33	Wingdings, Windows 3.1
34	Baltic (PC-1004)
35	Baltic (PC-775 Baltic)

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Troubleshooting

For Service, Call: