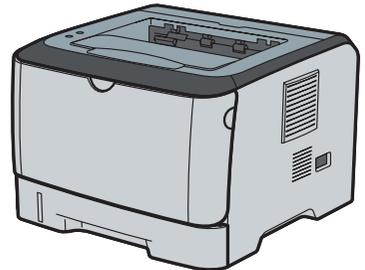




SP 3400N/SP 3410DN

Operating Instructions Software Guide



-
- 1** Preparing for Printing
 - 2** Setting Up the Printer Driver
 - 3** Other Print Operations
 - 4** Monitoring and Configuring the Printer
 - 5** Using a Print Server
 - 6** Special Operations under Windows
 - 7** Mac OS X Configuration
 - 8** Appendix

Introduction

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

Important

Contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

For good print quality, the supplier recommends that you use genuine toner from the supplier.

The supplier shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the supplier with your office products.

Do not copy or print any item for which reproduction is prohibited by law.

Copying or printing the following items is generally prohibited by local law:

bank notes, revenue stamps, bonds, stock certificates, bank drafts, checks, passports, driver's licenses.

The preceding list is meant as a guide only and is not inclusive. We assume no responsibility for its completeness or accuracy. If you have any questions concerning the legality of copying or printing certain items, consult with your legal advisor.

Notes:

Some illustrations in this manual might be slightly different from the machine.

Certain options might not be available in some countries. For details, please contact your local dealer.

Depending on which country you are in, certain units may be optional. For details, please contact your local dealer.

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Manuals for This Printer

For particular functions, see the relevant parts of the manual.

❖ **Safety Information**

Provides information on safe usage of this printer. To avoid injury and prevent damage to the printer, be sure to read this.

❖ **Quick Installation Guide**

Contains procedures for removing the printer from its box and connecting it to a computer.

❖ **Hardware Guide**

Contains information about paper and procedures such as installing options, replacing consumables, responding to error messages, and resolving jams.

❖ **Software Guide (This manual)**

Contains procedures for using this printer in a network environment and utilizing the software.

How to Read This Manual

Symbols

This manual uses the following symbols:

Important

Indicates points to pay attention to when using the machine, and explanations of likely causes of paper misfeeds, damage to originals, or loss of data. Be sure to read these explanations.

Note

Indicates supplementary explanations of the machine's functions, and instructions on resolving user errors.

Reference

This symbol is located at the end of sections. It indicates where you can find further relevant information.

[]

Indicates the names of keys and buttons.

[]

Indicates the names of keys on the printer's control panel.

Printer Types

This printer comes in two models that have different duplex functions.

When describing procedures that are model-specific, this manual refers to the different printer models as Type 1 or Type 2. The following table describes the model types.

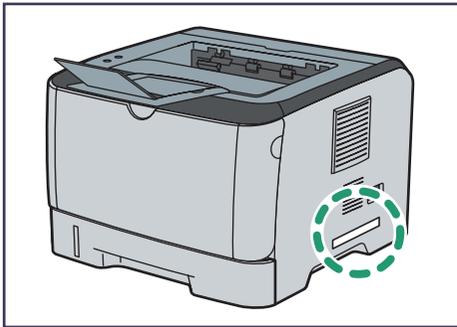
❖ Model types

Model type	Model name	Duplex Printing
Type 1	SP 3400N	Manual
Type 2	SP 3410DN	Automatic

Furthermore, the **120V** symbol is used for information that is relevant only to the 120 V model printer, and the **220-240V** symbol is used for information that is relevant only to the 220 to 240 V model printer.

❖ Checking the voltage rating of your printer

- Check the label on the left side of your printer for the voltage rating.



BXG002

1. Preparing for Printing

Confirming the Connection Method

This printer supports network and local connections.

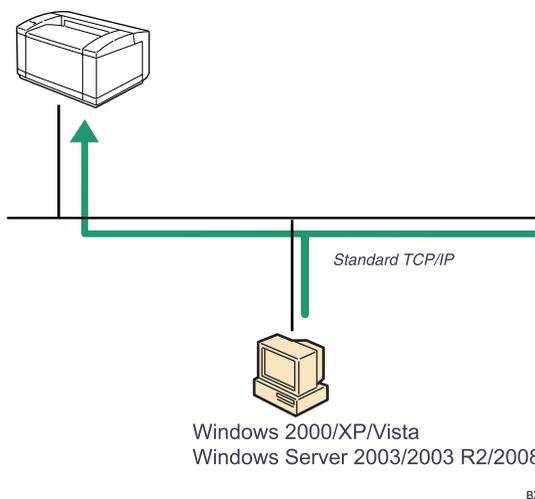
Before installing the printer driver, check how the printer is connected. Follow the driver installation procedure that is appropriate to the connection method.

Network Connection

This printer can be used as a Windows printing port or network printer.

Using this printer as the Windows printing port

Network connections can be established via Ethernet.



❖ **Operating system**

Windows 2000/XP/Vista, and Windows Server 2003/2003 R2/2008

❖ **Connection method**

Ethernet (10BASE-T/100BASE-TX)

❖ **Available ports**

Standard TCP/IP

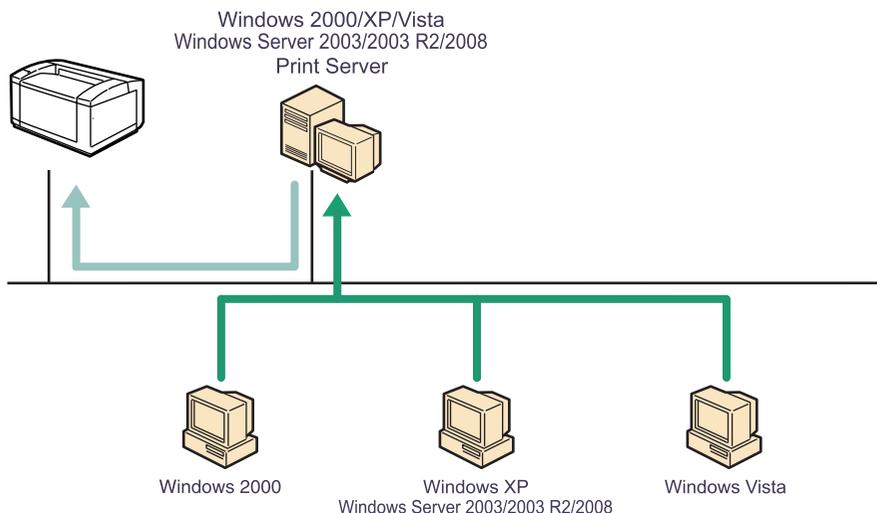
🔍 **Reference**

For details about how to use this printer as the Windows printing port, see p.8 "Installing the Printer Driver in a Network Environment".

Using as a network printer

This printer can be used as the Windows network printer.

1



BXG501

Reference

For details about how to use this printer as a Windows network printer, see p.15 "Installing the Printer Driver to Use As a Windows Network Printer".

Local Connection

Local connections can be established via USB connections.

Reference

For details about how to install the printer driver, see p.16 "Installing the Printer Driver Using USB".

Installing Drivers and Software

You can install the necessary drivers and software for this printer from the supplied CD-ROM.

The supplied drivers and software are supported by the following operating systems:

❖ **PCL 6 printer driver**

Windows 2000/XP/Vista and Windows Server 2003/2003 R2/2008

❖ **PostScript 3 printer driver**

Windows 2000/XP/Vista and Windows Server 2003/2003 R2/2008

Mac OS X 10.2.8, 10.3, 10.4, 10.5

❖ **Smart Organizing Monitor**

Windows 2000/XP/Vista and Windows Server 2003/2003 R2/2008

Mac OS X 10.2.8, 10.3, 10.4, 10.5

 **Note**

- ❑ The printer driver for the 64-bit Windows is not included on the supplied CD-ROM. If your operating system is the 64-bit Windows, download the drivers from the supplier's Web site, and then store the files in an easily accessible folder.

Installing the Printer Driver in a Network Environment

This section explains how to install the printer driver that allows you to use this printer in a network environment.

Installing the PCL Printer Driver

The following four steps are required to use this printer in the network environment.

- ① Print the test page
- ② Install Smart Organizing Monitor if necessary
- ③ Specify the printer's IP address if necessary
- ④ Install the printer driver

 **Note**

- If the printer is obtaining its IP address automatically from a DHCP server, you do not need to perform "2. Install Smart Organizing Monitor" and "3. Specify the printer's IP address".

Printing a test page

To install the printer driver, you must first confirm the printer's IP address.

If the printer is not obtaining its IP address automatically from a DHCP server, enter the MAC address printed on the test page as the IP address in Smart Organizing Monitor.

Make sure the network cable is properly connected to the printer before you print the test page.

- 1** Turn the printer's power switch to off, and then wait a few seconds.
- 2** While pressing down the [Job Reset] key, turn the printer's power switch back to on, and then keep the key pressed down until the Alert indicator flashes once.
- 3** Printing starts when the printer is fully warmed up.
Printing starts approximately 30 seconds after the Alert Indicator starts flashing.

 **Note**

- If the printer cannot obtain its IP address from a DHCP server, install Smart Organizing Monitor and specify the IP address, before installing the printer driver.
- You can also use Web Image Monitor to change the IP address obtained from a DHCP server. To access Web Image Monitor, use the IP address printed on the test page.

 **Reference**

For details about the installation procedure, see p.9 “Installing Smart Organizing Monitor”.

For details about Web Image Monitor, see p.37 “Using Web Image Monitor”.

Installing Smart Organizing Monitor

Smart Organizing Monitor can be installed from the CD-ROM provided with this printer.

 **Important**

- If you want to specify the printer's IP address manually, or manage several different printer models, you must install Smart Organizing Monitor separately for each printer model.
- If the printer is obtaining its IP address automatically from a DHCP server, you do not need to install Smart Organizing Monitor separately. Proceed to p.11 “Installing the printer driver” and install the printer driver.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click **[OK]**.

The default interface language is English.

4 Click **[Smart Organizing Monitor]**.

5 Select a language for Smart Organizing Monitor, and then click **[Next >]**.

The **[Smart Organizing Monitor Setup]** dialog box appears.

6 Click **[Next >]**.

The software license agreement appears.

7 After reading the agreement, click **[Yes]**.

The **[Select Destination Folder]** dialog box appears.

8 Click **[Next >]**.

Click **[Browse...]**, if you want to change the destination folder.

9 In the **[Select Program Folder]** dialog box, click **[Next >]**.

10 When the **[InstallShield Wizard Complete]** dialog box appears, click **[Finish]**.

To continue the installation, leave the **[Printer Driver and Utilities]** dialog box open.

 **Note**

- Smart Organizing Monitor will appear in the language selected in step 5, not the language selected in step 3.

Specifying the printer's IP address

Use the following procedure to specify the printer's IP address using Smart Organizing Monitor.

Important

- If the printer is obtaining its IP address automatically from a DHCP server, you do not need to perform this procedure. Proceed to p.11 “Installing the printer driver” and install the printer driver.

1 Connect the printer and computer using an Ethernet cable.

2 On the **[Start]** menu, point to **[All Programs]**, and then point to **[Smart Organizing Monitor for 3400 Series] > [Smart Organizing Monitor for 3400 Series Status]**.

The **[Smart Organizing Monitor]** dialog box appears.

In a Windows 2000 environment, point to **[Programs]** on the **[Start]** menu, and then point to **[Smart Organizing Monitor for 3400 Series] > [Smart Organizing Monitor for 3400 Series Status]**.

3 Click **[IP Address]**.

The **[IP Address Setting]** dialog box appears.

4 In the **[MAC Address]** box, enter the printer's MAC address that was printed on the test page. Then, in the **[IP Address]** box, enter the IP address you want to set for the printer.

Enter the subnet mask and gateway address if necessary.

5 Click **[OK]**.

A confirmation message appears.

6 Click **[OK]**.

7 Click **[Close]** to close the Smart Organizing Monitor dialog box.

Installing the printer driver

Use the following procedure to install the printer driver.

- 1** On the **[Printer Drivers and Utilities]** dialog box, click **[PCL 6 Printer Driver]**.
If you have already closed the **[Printer Drivers and Utilities]** dialog box, launch "Setup.exe" from the CD-ROM root directory.
The software license agreement appears.
- 2** After reading the agreement, click **[I accept the agreement.]**, and then click **[Next >]**.
- 3** In the dialog box that appears, select the **[Search for network printers.]** check box, and then click **[Next >]**.
If the search fails, the printer driver is installed via port LPT1.
Check the port settings and printer's IP address again, before reconfiguring the settings.
- 4** When the list of found printers appears, click this printer (whose IP address you confirmed before the installation), and then click **[Next >]**.
- 5** Double-click the printer name to display the printer's settings, change the settings as required, and then click **[Continue]**.
- 6** If a message appears informing you that the installation was successfully completed, click **[Finish]**.

Note

- When you click **[Finish]**, the **[Digital Signature Not Found]** dialog box might appear. To continue the installation, click **[Yes]**.
- Auto Run might not work under certain operating system settings. If this is the case, launch "Setup.exe" from the CD-ROM root directory.
- To stop the selected software installing, click **[Cancel]** before the installation is complete.
- A message appears if there is a newer version of the printer driver already installed. If there is, you cannot install the printer driver using Auto Run. If you still want to install the printer driver, use **[Add Printer]**. See p.22 "If a Message Appears during Installation".

Reference

For details about reconfiguring the printer settings when the search for network printer fails, see p.12 "If the network printer search fails".

For details about the network connection, see Hardware Guide.

If the network printer search fails

This section explains how to reconfigure the settings if the network printer search fails during the installation.

Before reconfiguring the settings, print a test page to obtain the printer's IP address, and then configure the necessary settings.

❖ Reconfigure the printer's IP address

For details about reconfiguring the printer's IP address, see p.10 “Specifying the printer's IP address”.

❖ Reconfigure the port settings

- ① On the **[Start]** menu, open the **[Printers and Faxes]** window.
- ② Click the icon of this printer. On the **[File]** menu, click **[Properties]**.
The printer properties dialog box appears.
- ③ Click the **[Ports]** tab, and then click **[Add Port]**.
- ④ Click **[Standard TCP/IP Port]**, and then click **[New Port...]**.
The Add Standard TCP/IP Printer Port Wizard appears.
- ⑤ Click **[Next >]**.
- ⑥ Enter the printer's IP address that is printed on the test page, and then click **[Next >]**.
If a screen prompting you to specify **[Device Type]** appears, select the model of your printer, and then click **[Next >]**.
- ⑦ Click **[Finish]**.

Installing the PostScript 3 Printer Driver

Important

- Before installing the PostScript 3 printer driver, print the test page to obtain the printer's IP address. For details, see p.8 "Printing a test page".
- To install this printer driver, you must have an account that has Manage Printers permission. Log on as an Administrators group member.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click **[OK]**.

The default interface language is English.

4 Click **[PostScript 3 Printer Driver]**.

The Add Printer Wizard starts.

5 Click **[Next >]**.

6 Click **[Local printer]**, and then click **[Next >]**.

In a Windows Vista and Windows Server 2008 environment, click **[Add a local printer]**.

7 Click **[Create a new port]**.

8 Click **[Standard TCP/IP Port]**, and then click **[Next >]**.

The **[Add Standard TCP/IP Printer Port Wizard]** dialog box appears.

9 Click **[Next >]**.

10 Enter the printer's IPv4 address in the **[Printer Name or IP Address]** box, and then click **[OK]**.

The IPv4 address you enter here is the address you have checked on the test page.

In a Windows Vista and Windows Server 2008 environment, make the following settings in the dialog box that appears, and then click **[Next >]**.

- ① In **[Device Type]** list, select an item.
You can select **[Autodetect]**, **[TCP/IP Device]**, or **[Web Services Device]**.
- ② Enter an IP address in the **[Hostname or IP address:]** box.
- ③ If necessary, enter a port name in the **[Port name]** box.

If a screen prompting you to specify **[Device Type]** appears, select the model of your printer, and then click **[Next >]**.

11 Click **[Finish]**.

12 Check that the name of this printer whose driver you want to install is selected, and then click **[Next >]**.

13 Change the printer name if you want, and then click **[Next >]**.

Select the **[Yes]** check box to configure the printer as default.

14 Specify whether or not to share this printer, and then click **[Next >]**.

15 Specify whether or not to print a test page, and then click **[Next >]**.

16 Click **[Finish]**.

The printer driver installation starts.

 **Note**

- When you click **[Finish]**, the **[Digital Signature Not Found]** dialog box may appear. To continue the installation, click **[Yes]**.
- Auto Run might not work under certain operating system settings. If this is the case, launch "Setup.exe" from the CD-ROM root directory.
- The printer driver in the selected language will be installed.
- To stop the selected software installation, click **[Cancel]** before the installation is complete.

 **Reference**

For details about checking the printer's IP address, see p.8 "Printing a test page".

For details about reconfiguring the printer settings when the network printer search fails, see p.12 "If the network printer search fails".

Installing the Printer Driver to Use As a Windows Network Printer

This section explains how to install the printer driver for using this printer as a Windows network printer.

Important

- ❑ Before you can make the following settings, you must configure this printer as a Windows network printer. For details about configuring a Windows network printer, see p.73 “Using a Print Server”.

The following example procedure explains installing the printer driver under Windows XP.

For details, see Windows Help.

- 1** On the [Start] menu, click [Control Panel].
- 2** Click [Printers and Other Hardware], and then click your computer's [Printers and Faxes] folder.
- 3** Click [Add a printer].
The Add Printer Wizard appears.
- 4** Click [Next >].
- 5** Click [Network printer] or [A network printer, or printer attached to another computer], and then click [Next >].
- 6** Select [Browse for a printer], and then click [Next >].
- 7** Double-click the computer name you want to use as a print server in the [Shared printers] window.
- 8** Select this printer from the list of the shared printers, and then click [Next >].
- 9** Select whether or not to use this printer as the default printer, and then click [Next >].
- 10** Click [Finish].

Installing the Printer Driver Using USB

This section explains how to install the printer drivers using USB.

The printer drivers can be installed from the CD-ROM provided with this printer.

Installing the PCL Printer Driver

Important

- To install this printer driver, you must have an account that has Manage Printers permission. Log on as an Administrators group member.

1 Quit all applications currently running.

2 Check the following:

- The printer's USB cable is disconnected
- The printer's main power switch is turned to off

3 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

4 Select the interface language, and then click [OK].

5 Click [PCL 6 Printer Driver].

The software license agreement appears.

6 After reading the agreement, click [I accept the agreement.], and then click [Next >].

7 In the [Method to install printer driver] dialog box, clear the [Search for network printers.] check box, select the [Connect a printer using a USB cable.] check box, and then click [Next >].

8 Select this printer, and then click [Next >].

A message appears, asking you to check that the USB cable is not connected and the printer's main power switch is turned to off.

9 Check the USB cable and the printer status, and then click [Next >].

10 When the [<Auto-detect USB Port>] dialog box appears, connect this printer to the computer using a USB cable, and then turn the printer's main power switch to on.

USB auto detection begins.

11 When the dialog box asking you to use this printer as the default printer appears, click either key.

12 When a message appears informing you that the installation was successfully completed, click [Finish].

 **Note**

- In a Windows Vista and Windows Server 2008 environment, depending on security settings, the **[User Account Control]** dialog box might appear after you insert the CD-ROM. If this is the case, click **[Allow]**.
- If the printer driver is already installed, plug and play is enabled and the printer connected to the USB port appears automatically in the **[Printers]** window.
- When USB is first used, plug and play starts. Then, the **[New Hardware Found]**, **[Device Driver Wizard]** or **[Add New Hardware Wizard]** dialog box appears, depending on the operating system.
- To disable Auto Run, press the left **[Shift]** key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.
- The number after “USB” varies depending on the number of printers connected.
- A message appears if the printer connection fails. Check the USB cable is connected and the printer's main power switch is turned to on, and then click **[Retry]**.
- To stop USB auto detection, click **[Stop Auto-detecting]**.
- The USB port is available only for the printer driver that is installed first. To install additional drivers for this printer, install them using other ports (such as LPT1). Then, after the installation, change the port settings to the specified USB port.

Installing the PostScript 3 Printer Driver (Windows 2000)

Important

- To install this printer driver, you must have an account that has Manage Printers permission. Log on as an Administrators group member.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the “USB” port is added to the **[Printers]** window.

If the printer driver is not installed, follow the plug and play instructions of the printer to install it from the CD-ROM provided.

1 Check the printer's power switch is turned to off.

2 Connect the printer and computer using the USB cable.

Connect the USB cable firmly.

3 Turn the printer's power switch back to on.

Plug and play is enabled and the **[Found New Hardware Wizard]** dialog box appears, and USB Printing Support is installed automatically.

4 In the **[Found New Hardware Wizard]** dialog box, click **[Search for a suitable driver for my device (recommended)]**, and then click **[Next >]**.

5 Select the **[Specify location]** check box, and then click **[Next >]**.

6 Insert the CD-ROM into the CD-ROM drive.

When Auto Run starts, click **[Exit]**.

7 Specify the location where the source files of the printer driver are stored.

If the CD-ROM drive is D, the source files of the PostScript 3 printer driver are stored in the following location:

D:\DRIVERS\PS\XP_VISTA\ (Language)\DISK1

8 Check the printer driver location, and then click **[OK]**.

9 Click **[Next >]**.

10 Click **[Finish]**.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the “USB001” port is added to the **[Printers]** window.

 **Note**

- To disable Auto Run, press the **[Shift]** key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.
- The number after “USB” varies depending on the number of printers connected.
- The USB port is available only for the printer driver that is installed first. To install additional drivers for this printer, install them using other ports (such as LPT1). Then, after the installation, change the port settings to the specified USB port.

Installing the PostScript 3 Printer Driver (Windows XP and Windows Server 2003/2003 R2)

 **Important**

- To install this printer driver, you must have an account that has Manage Printers permission. Log on as an Administrators group member.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the “USB” port is added to the **[Printers]** window.

If the printer driver is not installed, follow the plug-and-play instructions of the printer to install it from the CD-ROM provided.

1 Insert the CD-ROM into the CD-ROM drive.

When Auto Run starts, click **[Exit]**.

2 Check the printer's power switch is turned to off.**3** Connect the printer and computer using the USB cable.

Connect the USB cable firmly.

4 Turn the printer's power switch back to on.

The Plug and Play is enabled and the **[Found New Hardware Wizard]** dialog box appears, and USB Printing Support is installed automatically.

5 Select **[No, not this time]**, and then click **[Next >]**.**6** In the **[Found New Hardware Wizard]** dialog box, click **[Install from a list or specific location (Advanced)]**, and then click **[Next >]**.**7** Select the **[Include this location in the search:]** check box, and then click **[Browse]**.

8 Specify the location where the source files of the printer driver are stored.

If the CD-ROM drive is D, the source files of the PostScript 3 printer driver are stored in the following location:

D:\DRIVERS\PS\XP_VISTA\(\Language)\DISK1

9 Check the printer driver location, and then click [OK].**10 Click [Next >].****11 Click [Finish].**

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the “USB001” port is added to the **[Printers]** window.

 **Note**

- To disable Auto Run, press the **[Shift]** key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.
- The number after “USB” varies depending on the number of printers connected.
- The USB port is available only for the printer driver that is installed first. To install additional drivers for this printer, install them using other ports (such as LPT1). Then, after the installation, change the port settings to the specified USB port.

Installing the PostScript 3 Printer Driver (Windows Vista and Windows Server 2008)

 **Important**

- To install this printer driver, you must have an account that has Manage Printers permission. Log on as an Administrators group member.

If the printer driver is already installed and plug and play is enabled, the icon of the printer connected to the “usb” port appears in the **[Printers]** window.

The printer drivers can be installed from the CD-ROM provided with this printer.

If the printer driver is not already installed, follow the printer's plug-and-play instructions to install it from the provided CD-ROM.

1 Connect the printer and computer using the USB cable.

Connect the USB cable firmly.

The **[Found New Hardware]** dialog box appears.

2 Click [Locate and install driver software (Recommended)].

If the **[User Account Control]** dialog box appears, click **[Continue]**.

3 Click **[Don't search online]**.

A message prompting you to insert the provided CD-ROM appears.

4 Insert the provided CD-ROM into the computer's CD-ROM drive.

The printer driver search begins, and a list of printer drivers appears.

5 Select the printer driver you want to use, and then click **[Next]**.

If the **[Windows can't verify the publisher of this driver software]** message appears, click **[Install this driver software anyway]**.

6 Click **[Close]**.

If the installation is successful, the icon of the printer connected to the "USB001" port appears in the **[Printers]** window.

 **Note**

- To disable Auto Run, press the **[Shift]** key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.
- The number after "USB" varies depending on the number of printers connected.
- The USB port is available only for the printer driver that is installed first. To install additional drivers for this printer, install them using other ports (such as LPT1). Then, after the installation, change the port settings to the specified USB port.

Troubleshooting USB

Problem	Solutions
The printer is not recognized automatically.	Turn off the power of the printer, reconnect the USB cable, and then turn it on again.
Windows has already configured the USB settings.	Open Windows' Device Manager, and then, under [Universal Serial Bus controllers] , remove any conflicting devices. Conflicting devices have a [!] or [?] icon by them. Take care not to accidentally remove required devices. For details, see Windows Help. When using Windows 2000/XP/Vista or Windows Server 2003/2003 R2, an erroneous device is displayed under [USB Controller] in the [Device Manager] dialog box.
An error occurs during software installation.	First reboot Windows. Then, on the [Start] menu, select [Control Panel] . Double-click the System icon, and then on the [Hardware] tab, click [Device Manager] . Under [Other Devices] , select the printer, and then open its properties dialog box. On the [General] tab, click [Reinstall Driver] to reinstall the driver.

If a Message Appears during Installation

1

When a message that shows the number 58 or 34 appears during the installation, the printer driver cannot be installed using Auto Run. Use **[Add Printer]** or **[Install Printer]** to install the printer driver.

For Windows 2000

- 1** On the **[Start]** menu, point to **[Settings]**, and then click **[Printers]**.
- 2** Double-click the Add Printer icon.
- 3** Follow the instructions in the Add Printer Wizard.

For Windows XP Professional and Windows Server 2003/2003 R2:

- 1** On the **[Start]** menu, click **[Printers and Faxes]**.
- 2** Click **[Install Printer]**.
- 3** Follow the instructions in the Add Printer Wizard.

For Windows XP Home Editions:

- 1** On the **[Start]** menu, click **[Control Panel]**.
- 2** Click **[Printers and Other Hardware]**.
- 3** Click **[Printers and Faxes]**.
- 4** Click **[Install Printer]**.
- 5** Follow the instructions in the Add Printer Wizard.

For Windows Vista and Windows Server 2008:

- 1** On the **[Start]** menu, click **[Control Panel]**.
- 2** Click **[Printer]** in “Hardware and Sound”.
- 3** Click **[Add a printer]**.
- 4** Follow the instructions in the Add Printer Wizard.

Making Option Settings for the Printer

Make option settings for the printer using the printer driver when bidirectional communication is disabled.

Reference

For details about making option settings for the printer, see p.24 “If Bidirectional Communication Is Disabled”.

Conditions for Bidirectional Communication

Bidirectional communication allows information about paper settings to be automatically sent from the printer. You can check printer status from your computer.

- Bidirectional communication is supported by Windows 2000/XP/Vista, and Windows Server 2003/2003 R2/2008.

To support bidirectional communication, the following conditions must be met:

❖ When connected with the network

The printer must be connected via standard TCP/IP port, and the default port name has not been changed.

[Enable bidirectional support] in the **[Port]** tab of the printer properties is selected.

❖ When connected with USB

The printer must be connected to the computer's USB port using the USB interface cable.

[Enable bidirectional support] in the **[Port]** tab of the printer properties is selected.

Note

- The PostScript 3 printer driver does not support bidirectional communication.
- The PCL printer drivers support bidirectional communication. You can update printer status manually.

If Bidirectional Communication Is Disabled

Set up option settings when bidirectional communication is disabled.

1

Important

- Manage Printers permission is required to change the printer properties in the **[Printers]** folder. Log on as an Administrators or Power Users group member.
- Make sure that **[Enable bidirectional support]** is selected on the **[Ports]** tab in the printer properties dialog box. Printing is possible only if this check box is selected.

1 On the **[Start]** menu, click **[Printers and Faxes]**.

The **[Printers and Faxes]** window appears.

When using Windows 2000/Vista and Windows Server 2008, click **[Control Panel]** on the **[Start]** menu, and then click **[Printer]**. The **[Printer]** window appears.

2 Click the icon of the printer you want to use.

3 On the **[File]** menu, click **[Properties]**.

4 Click the **[Accessories]** tab.

5 Select options installed from the **[Options]** area.

6 Click the **[Paper Size Settings]** tab.

7 Select and highlight the tray to be used, select the appropriate size , and then click **[Update]**.

8 Click **[OK]** to close the printer properties dialog box.

2. Setting Up the Printer Driver

Accessing the Printer Properties

This section explains about accessing the printer properties and make the printer settings.

The procedure explained in this chapter applies to both the PCL 6 and PostScript 3 printer drivers.

Windows 2000 - Making Printer Settings

Making the printer default settings- the [Printer] window

Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Properties].

The printer properties dialog box appears.

4 Make the necessary settings, and then click [OK].

Note

- Settings you make here are used as the default settings for all applications.

Reference

For details about settings, see the printer driver Help.

Making the printer default settings - Printing Preferences

Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the **[Start]** menu, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

2 Click the icon of the printer you want to use.

3 On the **[File]** menu, click **[Printing Preferences...]**.

The **[Printing Preferences]** dialog box appears.

4 Make the necessary settings, and then click **[OK]**.

Note

- Settings you make here are used as the default settings for all applications.

Reference

For details about settings, see the printer driver Help.

Making printer settings from an application

You can make printer settings for a specific application.

To make printer settings for a specific application, open the **[Printing Preferences]** dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows 2000.

1 On the **[File]** menu, click **[Print...]**.

The **[Print]** dialog box appears.

2 Select the printer you want to use in the **[Select Printer]** list.

3 Make the necessary settings, and then click **[Apply]** to start printing.

Note

- The procedure to open the **[Printing Preferences]** dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the procedure above are valid for the current application only.
- General users can change the properties displayed in the **[Print]** dialog box of an application. Settings made here are used as defaults when printing from this application.

Reference

For details about settings, see the printer driver Help.

Windows XP and Windows Server 2003/2003 R2 - Making Printer Settings

Making the printer default settings - the [Printers and Faxes] window

Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, click [Printers and Faxes].

The [Printers and Faxes] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Properties].

The printer properties dialog box appears.

4 Make the necessary settings, and then click [OK].

Note

- Settings you make here are used as the default settings for all applications.

Reference

For details about settings, see the printer driver Help.

Making the printer default settings - Printing Preferences

Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, click [Printers and Faxes].

The [Printers and Faxes] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

4 Make the necessary settings, and then click [OK].

Note

- Settings you make here are used as the default settings for all applications.

Reference

For details about settings, see the printer driver Help.

Making printer settings from an application

You can make printer settings for a specific application.

To make printer settings for a specific application, open the [Printing Preferences] dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows XP.

1 On the [File] menu, click [Print...].

The [Print] dialog box appears.

2 Select the printer you want to use in the [Select Printer] list, and then click [Preferences].

3 Make the necessary settings, and then click [OK] to start printing.

Note

- The procedure to open the [Printing Preferences] dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the procedure above are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

Reference

For details about settings, see the printer driver Help.

Windows Vista, Windows Server 2008- Making Printer Settings

Making the printer default settings - the [Printer] window

Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, click [Control Panel].

The [Control Panel] window appears.

2 Click [Printer] in “Hardware and Sound”.

3 Right-click the icon of the printer you want to use, and then click [Properties].

The printer properties dialog box appears.

4 Make the necessary settings, and then click [OK].

Note

- Settings you make here are used as the default settings for all applications.

Reference

For details about settings, see the printer driver Help.

Making the printer default settings - Printing Preferences

Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the **[Start]** menu, click **[Control Panel]**.

The **[Control Panel]** window appears.

2 Click **[Printer]** in “Hardware and Sound”.

3 Right-click the icon of the printer you want to use, and then click **[Printing Preferences...]**.

The **[Printing Preferences]** dialog box appears.

4 Make the necessary settings, and then click **[OK]**.

Note

- Settings you make here are used as the default settings for all applications.

Reference

For details about settings, see the printer driver Help.

Making printer settings from an application

You can make printer settings for a specific application.

To make printer settings for a specific application, open the **[Printing Preferences]** dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows Vista.

1 On the **[File]** menu, click **[Print...]**.

The **[Print]** dialog box appears.

2 Select the printer you want to use in the **[Select Printer]** list, and then click **[Preferences]**.

3 Make the necessary settings, and then click **[Apply]** to start printing.

Note

- The procedure to open the **[Printing Preferences]** dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the procedure above are valid for the current application only.
- General users can change the properties displayed in the **[Print]** dialog box of an application. Settings made here are used as defaults when printing from this application.

Reference

For details about settings, see the printer driver Help.

3. Other Print Operations

If Errors Occur with the Specified Paper Size and Type

Use the form feed function to continue printing when a problem such as a paper size and paper type error occurred.

This function can be performed using the control panel.

Important

- You cannot use Smart Organizing Monitor to change paper tray settings to resolve errors such as a paper type or size mismatch in a queued print job. To resolve such errors, you must use Web Image Monitor to change the paper settings. Alternatively, perform form feed or reset the job.
- If the paper that is loaded is larger than the paper size specified in the printer driver, using the form feed function could result in a paper jam. Use form feed only if the paper is the same as or smaller than the paper size specified in the printer driver.

Reference

For details about Web Image Monitor, see p.37 “Using Web Image Monitor”.

Performing Form Feed

Follow the procedure below to perform form feed.

- 1** If the Smart Organizing Monitor dialog box with a caution message appears, press the **[Stop/Start]** key.

Note

- If you want to print after adding paper to the tray, load the correct paper, and then press the **[Stop/Start]** key.
- If a tray with a smaller paper size is selected, the print job may be cut short, or other problems may occur.

Canceling a Print Job

Follow the procedure below to cancel a print job that is related to the printer error occurred.

- 1** If the Smart Organizing Monitor dialog box appears with a caution message, press the **[Job Reset]** key.

Canceling a Print Job

This section gives instruction to stop printing from the control panel or computer.

Canceling a Print Job Using the Control Panel

You can cancel a print job using the control panel, if transferring print jobs is not completed.

1 Press the [Job Reset] key.

Canceling a Print Job from the Computer

You can cancel a print job from the computer if the transferring print job is not completed.

1 Double-click the printer icon on the Windows task tray.

A window appears, showing all print jobs currently queued for printing. Check the current status of the job you want to cancel.

2 Select the name of the job you want to cancel, click the [Document] menu, and then click [Cancel].

 **Note**

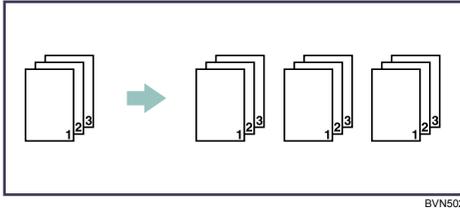
- You cannot stop printing data that has already been processed. For this reason, printing may continue for a few pages after you cancel printing.
- A print job containing a large volume of data may take considerable time to stop.

Collate

Use the Collate function to print documents into page-ordered sets.

❖ Collate

Output can be assembled as sets in sequential order.



Note

- If Auto Continue occurs on the first set, the Collate will be canceled.
- If form feed occurs on the first set, the Collate will be canceled.

Reference

For details about printing method, see the printer driver Help.

Cover

Use the Cover function to insert cover sheets using paper in a specified tray.

 **Note**

- The cover sheet's size and orientation must be the same as those of the body paper.

 **Reference**

For details about printing methods, see the printer driver Help.

Watermark

Use the Watermark function to print watermark text.

 **Note**

- If the watermark size is larger than the paper size, watermarks cannot be printed properly.

 **Reference**

For details about the setting method, see the printer driver Help.

Manual Duplex

To print on both sides of paper using the Type 1 model, use the Manual Duplex function. Follow the procedure below to perform manual duplex printing.

In Manual Duplex printing, the printer prints only even pages of a document first, asks you to reload the output paper turned upside down into the printer, and then prints odd pages on the back sides of the paper.

Important

- This function is only available when printing from a computer running a Windows operating system using the PCL 6 printer driver.
- The printer always uses tray 1 to print on the back sides of paper, regardless of the tray you selected with the printer driver. Make sure that the paper settings of the trays that will be used match the paper settings of the print job to avoid paper mismatch errors.

1 Open the file you want to print on your computer.

2 Open the printer driver's properties.

3 On the [Setup] tab, select [Open to Left], [Open to Right] or [Open to Top] from the [Duplex] list.

4 Click [OK].

5 Configure printing preferences according to your needs, and then click [OK] twice.

The Manual Duplex guidance screen appears on your computer showing the subsequent procedure, and the printer starts printing even pages.

6 Reload the output paper into tray 1 with the printed side up.

If paper orientation is portrait, put the top of paper towards you for [Open to Left] or [Open to Right], or towards the printer rear for [Open to Top].

If paper orientation is landscape, put the top of paper to the left for [Open to Left] or [Open to Right], or to the right for [Open to Top].

7 Press the [Stop/Start] key.

Odd pages will then be printed.

Note

- When you print a document whose page count is an odd number, a blank page is printed first. This blank page is the last page of the document. When you start printing on the other side of the paper, include this blank page in the bundle of paper.

Reference

For details about loading paper in the trays, see Hardware Guide.

For details about printer driver operation, see the printer driver Help.

4. Monitoring and Configuring the Printer

You can check the printer's status or change its settings by accessing the printer directly using Web Image Monitor.

Using Web Image Monitor

❖ Available operations

The following operations can be performed remotely using Web Image Monitor on a computer:

- Displaying the printer's status or settings
- Configuring the printer's settings
- Printing reports
- Configuring network settings
- Setting a password for changing the printer's configuration
- Restoring the default values for the printer's configuration
- Creating backup files of the printer's configuration
- Restoring the printer's configuration from backup files
- Displaying the counter information
- Making settings for paper loaded into each input tray
- Making input tray settings

❖ Supported Web browsers

- Windows:
Internet Explorer 5.0 or higher
- Mac OS X:
Safari

 **Note**

- If you use an older version of a supported Web browser or the Web browser has JavaScript and cookies disabled, display and operation problems may occur.
- If you are using a proxy server, configure the Web browser settings as necessary. For details about the settings, contact your network administrator.
- The previous page may not appear even if the back button of the Web browser is clicked. If this happens, click the refresh button of the Web browser.
- Displayed information is not automatically refreshed. Click the **[Refresh]** button in the upper right-hand corner.
- We recommend using Web Image Monitor in the same network.
- If the printer is firewall-protected, it cannot be accessed from computers outside the firewall.
- When using the printer under DHCP, the IPv4 address may be automatically changed by the DHCP server settings.
- If the HTTP port is disabled, connection to the printer using the printer's URL cannot be established.
- To use JAWS 7.0 under Web Image Monitor, you must be running Windows OS and Microsoft Internet Explorer 5.5 SP2, or a later version.

Displaying Top Page

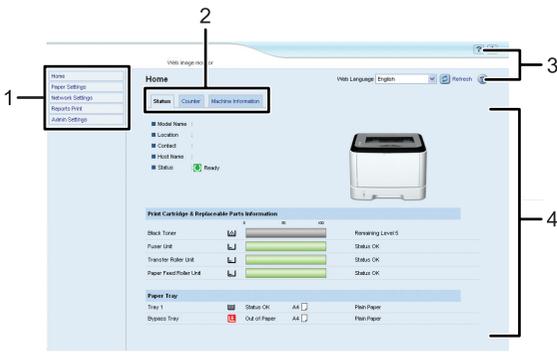
This section explains how to display Web Image Monitor and its Top Page.

Displaying Top Page of Web Image Monitor

- 1** Start your Web browser.
- 2** Enter “http://(printer's address)/” in the address bar of the Web browser.
Top Page of Web Image Monitor appears.
If the printer's host name has been registered on the DNS server, you can enter it.

Top Page

Every Web Image Monitor page is divided into the following areas:



1. Menu area

When you select **[Network Settings]**, content of the **[Network Settings]** page appears on the main area.

2. Tab area

Contains menus for the Status and Counter modes and tabs for switching between them.

3. Help

Use Help to view help file contents.

4. Main area

Displays the contents of the item selected in the menu area.

The printer information in the main area is not automatically updated. Click **[Refresh]** at the upper right in the main area to update the printer information. Click the Web browser's **[Refresh]** button to refresh the entire browser screen.

Changing the Interface Language

Select the desired interface language from the **[Web Language]** list.

Checking the System Information

Click **[Home]** to display the main page of Web Image Monitor. You can check the current system information on this page.

This page contains three tabs: **[Status]**, **[Counter]**, and **[Machine Information]**.

Checking the Status Information

Click the **[Status]** tab on the main page to display system information, paper tray status and toner levels.



Item	Description
Model Name	Shows the name of the printer.
Location	Shows the location of the printer as registered on the [SNMP] page.
Contact	Shows the contact information of the printer as registered on the [SNMP] page.
Host Name	Shows the host name specified in [Host Name] on the [DNS] page.
Status	Shows the current messages on the printer's display.

❖ Print Cartridge & Replaceable Parts Information

Item	Description
Black Toner	Shows the amount of black toner remaining.
Fuser Unit	Shows the remaining life of the fuser unit.
Transfer Roller Unit	Shows the remaining life of the transfer roller unit.
Paper Feed Roller Unit	Shows the remaining life of the paper feed roller unit.

❖ Paper Tray

Item	Description
Tray 1	Shows the current state and paper size/type setting of tray 1.
Tray 2	Shows the current state and paper size/type setting of tray 2.
Bypass Tray	Shows the current state and paper size/type setting of the bypass tray.

📌 Note

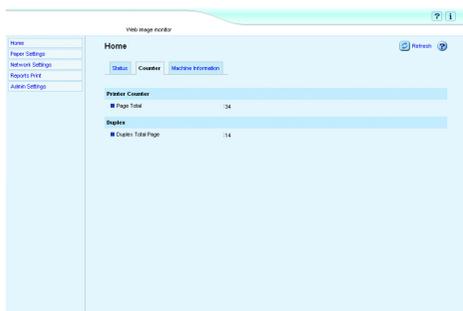
- ❑ The information about tray 2 appears only when it is installed.
- ❑ If a non-genuine print cartridge is installed, toner life cannot be reliably indicated.

🔍 Reference

For details about location and contact information, see p.49 “Configuring the SNMP Settings”.

Checking the Counter Information

Click the **[Counter]** tab on the main page to check the counter information.



❖ Printer Counter

Item	Description
Page Total	Shows the total number of pages printed using the printer driver, lists/reports printed from the [Reports Print] menu.

❖ Duplex

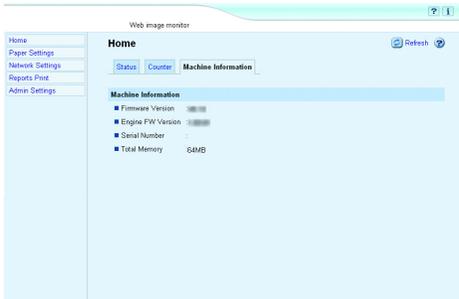
Item	Description
Duplex Total Page	Shows the total number of pages printed on both sides.

📌 Note

- ❑ Duplex counter appears for the Type 2 model only.
- ❑ A sheet printed on both sides counts as two printed pages.

Checking the Machine Information

Click the **[Machine Information]** tab on the main page to display the printer information.



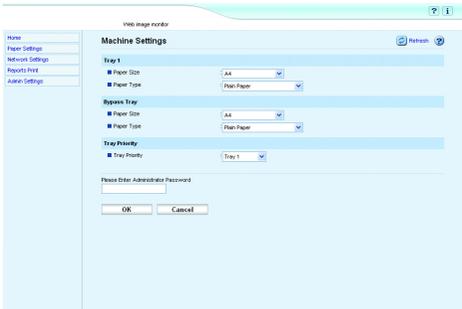
4

❖ Machine Information

Item	Description
Firmware Version	Shows the version of the firmware installed on the printer.
Engine FW Version	Shows the version of the firmware for the printer engine.
Serial Number	Shows the serial number of the printer.
Total Memory	Shows the total memory installed on the printer.

Configuring the Paper Settings

Click [Paper Settings] to display the page for configuring the printer settings.



❖ Tray 1

Item	Description
Paper Size	Select the paper size for tray 1 from the following: A4, B5 JIS, A5, B6-S, A6, Legal, Letter, Half Letter-S, Executive, 8 x 13, 8.5 x 13, Folio, 16K, Custom.
Paper Type	Select the paper type for tray 1 from the following: Thin Paper(52-64g/m ²), Thick Paper 1(100-130g/m ²), Thick Paper 2(131-162g/m ²), Plain Paper, Recycled, Color, Preprinted, Prepunched, Letterhead, Bond Paper, Cardstock, Label Paper.

❖ Tray 2

Item	Description
Paper Size	Select the paper size for tray 2 from the following: A4, B5 JIS, A5, Legal, Letter, Half Letter-S.
Paper Type	Select the paper type for tray 2 from the following: Thin Paper(52-64g/m ²), Thick Paper 1(100-130 g/m ²), Plain Paper, Recycled, Color, Preprinted, Prepunched, Letterhead.

❖ **Bypass Tray**

Item	Description
Paper Size	Select the paper size for the bypass tray from the following: A4, B5 JIS, A5, B6-S, A6, Legal, Letter, Half Letter-S, Executive, 16K, Com 10, Monarch, C5 Env, C6 Env, DL Env, Custom.
Paper Type	Select the paper type for the bypass tray from the following: Thin Paper(52-64g/m ²), Thick Paper 1(100-130g/m ²), Thick Paper 2(131-162g/m ²), Plain Paper, Recycled, Color, Preprinted, Prepunched, Letterhead, Bond Paper, Cardstock, Label Paper, Envelope, OHP.

4

❖ **Tray Priority**

Item	Description
Tray Priority	Select the tray that the printer checks first for paper that matches the print job from tray 1, tray 2, or bypass tray.

 **Note**

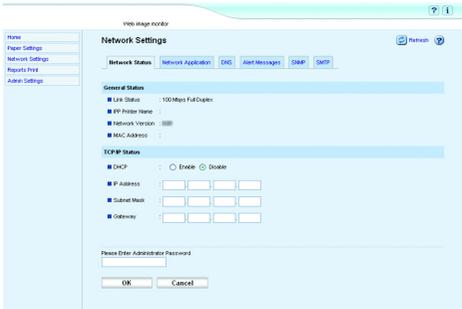
- The information about tray 2 appears only when it is installed.

Configuring the Network Settings

Click **[Network Settings]** to display the page for configuring the network settings. This page contains six tabs: **[Network Status]**, **[Network Application]**, **[DNS]**, **[Alert Messages]**, **[SNMP]**, and **[SMTP]**.

Checking the Network Status

Click the **[Network Status]** tab on the network settings page to display the network information.



❖ General Status

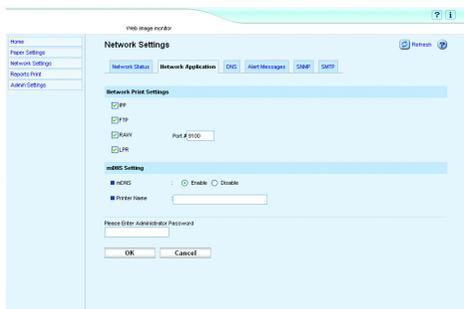
Item	Description
Link Status	Shows the type and speed of the network connection.
IPP Printer Name	Shows the name used to identify the printer on the network.
Network Version	Shows the version of the printer's network module (a part of the printer firmware).
MAC Address	Shows the MAC address of the printer.

❖ TCP/IP Status

Item	Description
DHCP	Select whether the printer should receive a dynamic IP address automatically using DHCP. To use DHCP, select [Enable] . When enabled, the items below cannot be configured.
IP Address	Enter the IP address for the printer.
Subnet Mask	Enter the subnet mask of the network.
Gateway	Enter the IP address of the network gateway.

Configuring the Network Application Settings

Click the **[Network Application]** tab on the network settings page to configure the network application settings.



4

❖ Network Print Settings

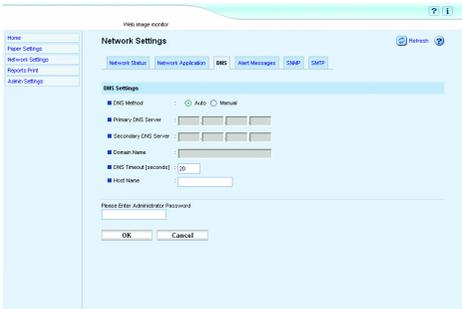
Item	Description
IPP	Select to enable network printing using Internet Print Protocol (via TCP port 631/80).
FTP	Select to enable network printing using an embedded FTP server in the printer (via TCP port 20/21).
RAW	Select to enable network raw printing.
Port #	Enter the TCP port number to use for raw printing. The valid range is 1024 to 65535, except 53550 (default is 9100).
LPR	Select to enable network printing using LPR/LPD (via TCP port 515).

❖ mDNS Setting

Item	Description
mDNS	Select to enable Multicast DNS (via UDP port 5353). If disabled, the item below cannot be configured.
Printer Name	Enter the name of the printer. Can contain up to 32 characters.

Configuring the DNS Settings

Click the **[DNS]** tab on the network settings page to configure the DNS settings.

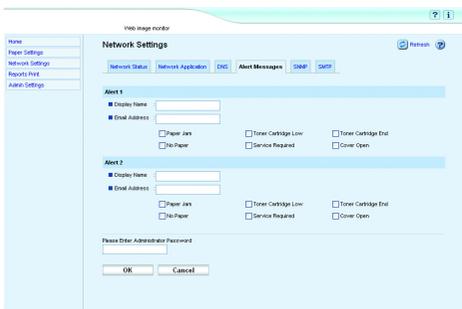


❖ DNS Settings

Item	Description
DNS Method	Select whether to specify domain name servers manually or receive DNS information from the network automatically. When set to [Auto] , the items below become unavailable.
Primary DNS Server	Enter the IP address of the primary DNS.
Secondary DNS Server	Enter the IP address of the secondary DNS.
Domain Name	Enter the domain name for the printer. Can contain up to 32 characters.
DNS Timeout [Seconds]	Enter the number of seconds the printer waits before considering a DNS request to have timed out (5 to 100).
Host Name	Enter a host name for the printer. Can contain up to 15 characters.

Configuring the Alert Message Settings

Click the **[Alert Messages]** tab on the network settings page to configure the alert message settings.



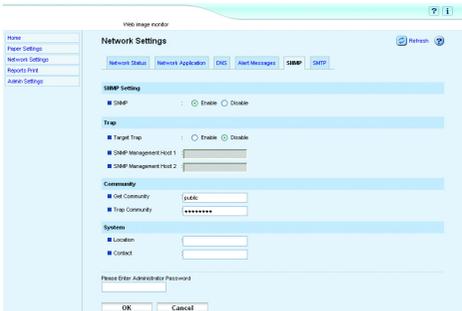
4

❖ Alert 1/Alert 2

Item	Description
Display Name	Enter a sender name for alert e-mail. Can contain up to 32 characters.
Email Address	Enter the address of the recipient of the alert e-mail. Can contain up to 64 characters.
Paper Jam	Select to send an alert e-mail to the specified address if a paper jam occurs.
No Paper	Select to send an alert e-mail to the specified address if paper runs out.
Toner Cartridge Low	Select to send an alert e-mail to the specified address if toner becomes low.
Service Required	Select to send an alert e-mail to the specified address if the printer requires servicing.
Toner Cartridge End	Select to send an alert e-mail to the specified address if toner runs out.
Cover Open	Select to send an alert e-mail to the specified address if a cover is open.

Configuring the SNMP Settings

Click the [SNMP] tab on the network settings page to configure the SNMP settings.



❖ SNMP Setting

Item	Description
SNMP	Select whether to enable the printer to use SNMP services.

❖ Trap

Item	Description
Target Trap	Select whether to enable the printer to send traps to the management host (NMS).
SNMP Management Host 1	Enter the IP address or host name of a management host. Can contain up to 32 characters.
SNMP Management Host 2	Enter the IP address or host name of a management host. Can contain up to 32 characters.

❖ Community

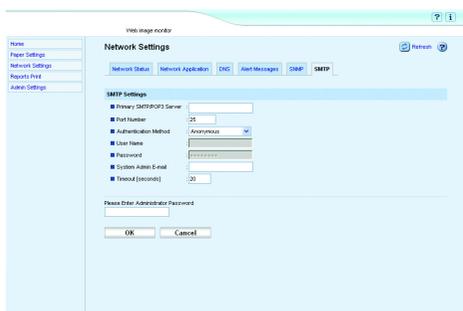
Item	Description
Get Community	Enter the community name to use for authentication of Get requests. Can contain up to 32 characters. To search for this printer in Smart Organizing Monitor, specify "public".
Trap Community	Enter the community name to use for authentication of Trap requests. Can contain up to 32 characters.

❖ **System**

Item	Description
Location	Enter the location of the printer. The location entered here is displayed on the main page. Can contain up to 64 characters.
Contact	Enter the contact information of the printer. The contact information entered here is displayed on the main page. Can contain up to 64 characters.

Configuring the SMTP Settings

Click the **[SMTP]** tab on the network settings page to configure the SMTP settings.

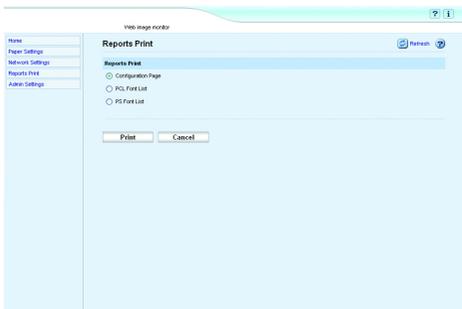


❖ SMTP Settings

Item	Description
Primary SMTP/POP3 Server	Enter the IP address or host name of the SMTP/POP3 server. Can contain up to 32 characters.
Port Number	Enter the port number for SMTP (1 to 65535).
Authentication Method	Select an authentication method from the following: [Anonymous]: The user name and password are not necessary. [SMTP Authentication]: The printer supports NTLM and LOGIN authentication. [POP before SMTP]: The POP3 server is used for authentication. The same server as the SMTP server is used as the POP3 server.
User Name	Enter the user name for logging in to the SMTP server. Can contain up to 32 characters.
Password	Enter the password for logging in to the SMTP server. Can contain up to 32 characters.
System Admin E-mail	Enter the system administrator's e-mail address. This address is used as the sender's address of e-mail messages sent from this printer, such as alert e-mail messages and Scan to E-mail notifications. Can contain up to 64 characters.
Timeout [Seconds]	Enter the number of seconds the printer waits before considering an SMTP operation to have timed out (1 to 999).

Printing Reports

Click **[Reports Print]** to display the page for printing reports. Then, select an item and click **[Print]** to print out information for that item.



4

❖ Reports Print

Item	Description
Configuration Page	Prints general information about the printer and its current configuration.
PCL Font List	The installed PCL font list is printed.
PS Font List	The installed PS font list is printed.

Note

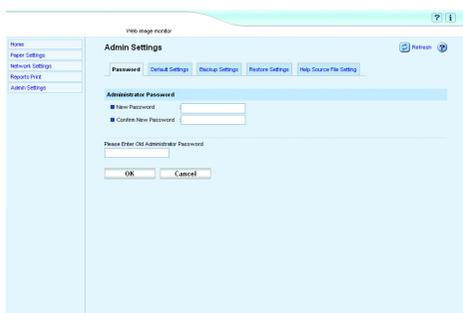
- ❑ Reports cannot be printed via Web Image Monitor if other jobs are being printed. Before printing reports, confirm that printer is not printing.

Configuring the Administrator Settings

Click **[Admin Settings]** to display the page for configuring the administrator settings. This page contains five tabs: **[Password]**, **[Default Settings]**, **[Backup Settings]**, **[Restore Settings]**, and **[Help Source File Setting]**.

Configuring the Password

Click the **[Password]** tab on the administrator settings page to configure the password.



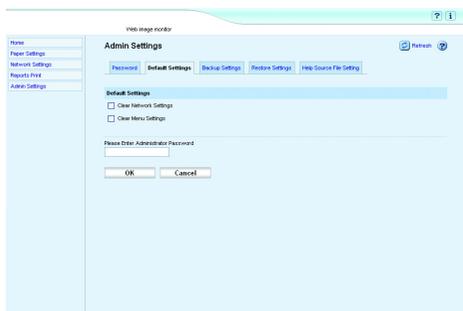
4

❖ Administrator Password

Item	Description
New Password	Enter the new administrator password. Can contain up to 16 characters.
Confirm New Password	Enter the same password again, to confirm.

Restoring the Default Settings

Click the **[Default Settings]** tab on the administrator settings page to restore the printer's default settings.



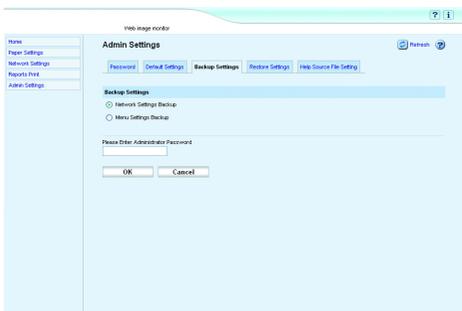
Item	Description
Clear Network Settings	Select to restore the network settings to their defaults.
Clear Menu Settings	Select to restore the menu settings to their defaults.

Backing Up the Printer's Settings

Click the **[Backup Settings]** tab on the administrator settings page to create backup files containing the printer's configuration settings. If necessary, these backup files can be used to restore previous configurations.

Important

- When sending the printer for repair, it is important that you create backup files in advance. The printer's settings are returned to the default after repair.



4

❖ Backup Settings

Item	Description
Network Settings Backup	Backs up settings configured on the [Network Status] , [Network Application] , [DNS] , [Alert Messages] , [SNMP] , and [SMTP] pages, as well as the administrator password for Web Image Monitor.
Menu Settings Backup	Backs up the menu settings that are not related to the network.

Follow the procedure below to create configuration backup files.

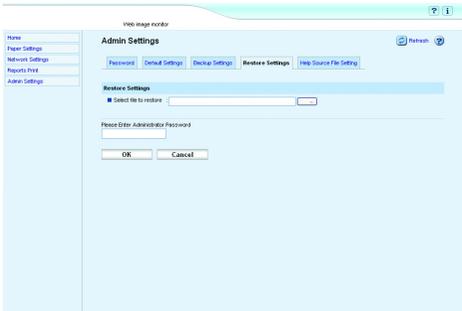
- 1** Select the radio button for the type of data you wish to back up.
- 2** Enter the administrator password if required.
- 3** Click **[OK]**.
- 4** Click **[Save]** in the confirmation dialog box.
- 5** Navigate to the location to save the backup file.
- 6** Specify a name for the file, and click **[Save]**.

Restoring the Printer's Settings from a Backup File

Click the **[Restore Settings]** tab on the administrator settings page to restore the printer's settings from a previously created backup file.

Important

- ❑ When the printer is returned from repair, it is important that you restore the printer's settings from the backup files. The printer's settings are returned to the default after repair.



❖ Restore Settings

Item	Description
Select file to restore	Enter the file path and name of the file to restore, or click [Browse...] to select the file.

Follow the procedure below to restore configuration backup files.

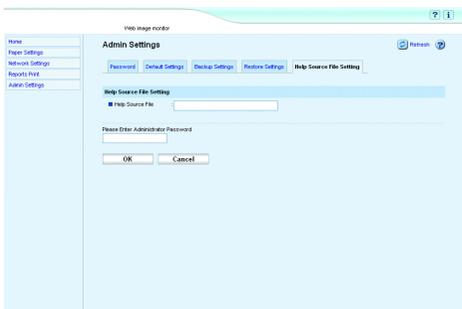
- 1** Click **[Browse...]**.
- 2** Navigate to the directory containing the backup file to restore.
- 3** Select the backup file, and click **[Open]**.
- 4** Enter the administrator password if required.
- 5** Click **[OK]**.

Note

- ❑ If the setting are not restored successfully, an error message appears. Try again to restore the file completely.

Help Source File Setting

Click the **[Help Source File Setting]** tab on the administrator settings page to configure the help source file setting.



4

❖ Help Source File Setting

Item	Description
Help Source File	Enter the help source file path.

Installing Help

1 Copy the **[WIMHELP]** folder on the CD-ROM to your computer's hard drive.

The example procedures explain how to copy the **[WIMHELP]** folder to the C:\tmp\WIMHELP directory.

2 Access Web Image Monitor, and then click **[Help Source File Setting]** on the **[Admin Settings]** page.

3 In the text box, enter "C:\tmp\WIMHELP\".

4 Enter the administrator password if required.

5 Click **[OK]**.

Displaying Web Image Monitor Help

To use Help for the first time, you need to install its source file from the CD-ROM provided with this printer.

Note

- By clicking **[Help]** in the header area, the contents of Help appear.
- By clicking "?", the Help icon in the main area, Help for the setting items in the main area appears.

Using Smart Organizing Monitor

Smart Organizing Monitor allows you to make printer settings, such as input tray and network-related settings, from your client computer.

You can also use Smart Organizing Monitor to check printer status.

The following operations are possible with Smart Organizing Monitor:

- Displaying the printer status or settings
- Checking the locations where errors have occurred and the error recovery methods
- Displaying the printer status and the supply information
- Printing a list of the printer configurations
- Specifying the printer's IP address
- Making the settings for paper loaded into each input tray
- Making the input tray settings
- Changing the factory-set default settings
- Making the system, access code and language settings
- Making the network protocol settings
- Making the printer settings

Reference

The Smart Organizing Monitor functions you can use under Windows operating systems are also available under Mac OS. For details, see p.89 "Using Smart Organizing Monitor".

Installing Smart Organizing Monitor

Important

- To install Smart Organizing Monitor, log on as an Administrators group member.

Smart Organizing Monitor is automatically installed with the PCL 6 printer driver when installing it, or by clicking **[Smart Organizing Monitor]** in the **[Printer Drivers and Utilities]** dialog box, which appears when inserting the CD-ROM provided with this printer.

Displaying the Smart Organizing Monitor Dialog Box

Methods of displaying the Smart Organizing Monitor dialog box differ depending on how it was installed.

❖ **If you installed Smart Organizing Monitor by clicking [Smart Organizing Monitor] in the [Printer Drivers and Utilities] dialog box:**

On the [Start] menu, point to [Programs] or [All Programs], and then point to [Smart Organizing Monitor for SP 3400 Series] > [Smart Organizing Monitor for SP 3400 Series Status].

❖ **If you installed Smart Organizing Monitor with the printer driver:**

In the printing preferences dialog box, click [Smart Organizing Monitor...]. Or, [Accessories], [Advanced Options] or [Paper Size Settings] tab in the printer's properties dialog box, click [Smart Organizing Monitor...].

4

Displaying the Printer Status

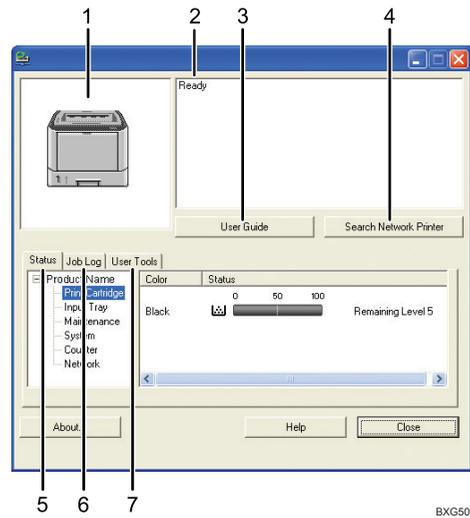
In the Smart Organizing Monitor dialog box, you can check the status of monitored printers.

The printer status is displayed using graphics and comments.

 **Note**

- If Smart Organizing Monitor is monitoring multiple printers, the [Printer Driver Selection] dialog box appears. Select the printer driver used by the target printer, and then click [OK]. To check the status of a network printer, click [Search Network Printer].





1. Printer graphic

If an input tray error occurs,  appears. This identifies the tray where the error occurred. The problem tray is outlined in red.

2. Comments

Displays current printer status and instructions for resolving problems.

3. [User Guide] button

Click to display error related Help.

To use this function, install the manual from the CD-ROM. For the manual installation procedure, see Hardware Guide.

4. [Search Network Printer] button

Click to select a network printer.

5. [Status] tab

Displays the status of the items such as toner levels and paper level.

6. [Job Log] tab

Displays the information related to print jobs.

7. [User Tools] tab

Prints the Configuration Page, PCL Configuration/Font Page, and PS Configuration/Font Page. The **[Printer Configuration]** dialog box can be opened from this tab.

Displaying the Printer Information

The lower half of the Smart Organizing Monitor dialog box contains the following three tabs: **[Status]**, **[Job Log]**, and **[User Tools]**. You can use these tabs to display information about a monitored printer, such as its status, job history, and configuration.

Displaying the printer status

The left side of the **[Status]** tab shows the printer name and tree. Click an item in the tree to display information relating to it.

❖ **Print Cartridge**

Displays the following messages to indicate remaining toner levels: Remaining Level 1 to 5, "Almost Empty" and "Empty".
Graphics also indicate remaining toner levels.

❖ **Input Tray**

You can check the following information about the input trays.

- **Input Tray**
Displays the installed input trays.
- **Status**
Displays the input tray status, "Out of Paper" or "Status OK".
- **Paper Size**
Displays the size of the paper loaded into each input tray.
- **Paper Type**
Displays the type of the paper loaded into each input tray.

❖ **Maintenance**

Displays the name of consumables and uses graphics to indicate their statuses.

❖ **System**

Displays the system information about the printer, such as the model name, system version, and memory size.

❖ **Counter**

Displays information about the counters.

❖ **Network**

Displays network details such as the printer's IP address and network-related comments.

Reference

For details about each item in the Smart Organizing Monitor dialog box, see Smart Organizing Monitor Help.

You can print information that appears on the **[Status]** tab. For details see p.61 "Printing the printer configurations".

Displaying the job history

On the **[Job Log]** tab, print jobs are displayed in the list.

You can check the following information:

- File Name
- Page(s)
- Start Date
- Status

Note

- Normally, the names used to log on to Windows are displayed in the **[User Name]** column.

Printing the printer configurations

On the **[User Tools]** tab, you can print lists of printer information.

Important

- You can print the configuration page only when the printer is not busy processing jobs.
- To print information about the printer, the printer must be monitored from Smart Organizing Monitor via a supported printer driver.

In the **[List/Test Print]** list, select the item you want to print. You can print the following:

❖ Configuration Page

The current configurations and general information of the printer are printed.

❖ PCL Config./Font Page

The installed PCL font list is printed.

❖ PS Config./Font Page

The installed PS font list is printed.

The procedure for printing the configuration page is described as an example.

1 On the **[User Tools]** tab, in the **[List/Test Print]** list, select **[Configuration Page]**.

2 Click **[Print]**.

Reference

For details about the items displayed on the configuration page, see p.69 “Reading the Configuration Page”.

Printer Configuration

You can use the **[Printer Configuration]** dialog box to change the current printer settings. To display the **[Printer Configuration]** dialog box and change printer settings, on the **[User Tools]** tab, click **[Printer Configuration]**.

Important

The **[Printer Configuration]** is disabled when the printer is not in the ready state or power save mode.

You can use the **[Printer Configuration]** dialog box to change the settings of:

- Paper Input
- Maintenance
- System
- Network
- Printer

Note

[Printer Configuration] can be used only when there are no print jobs waiting to be processed on this printer.

Reference

For details about each item you can specify in the **[Printer Configuration]** dialog box, see Smart Organizing Monitor Help.

About menu and mode

There are two modes you can use to access the **[Printer Configuration]** dialog box: administrator mode and general users mode.

Available tabs in the **[Printer Configuration]** dialog box differ depending on the mode you are in.

❖ Administrator

In the **[Access Code]** dialog box, enter an access code.

All tabs in the **[Printer Configuration]** dialog box are available.

❖ General users

Only the **[Paper Input]** tab is available.

Changing the paper settings

On the **[Paper Input]** tab, you can change paper size and other paper settings.

❖ Tray 1

- Paper Size

The following sizes are available:

A4 (210 x 297 mm), B5 JIS (182 x 257 mm), A5 (148 x 210 mm),
B6 JIS (128 x 182 mm), A6 (105 x 148 mm), 8 1/2 x 14, 8 1/2 x 11,
5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, 16K,
Custom Paper Size

- Paper Type

The following paper types are available:

Thin Paper, Thick Paper 1, Thick Paper 2, Plain Paper 1, Recycled Paper,
Color Paper, Preprinted Paper, Prepunched Paper, Letterhead,
Bond Paper, Cardstock, Labels

- Custom Paper Size

You can make the custom paper size settings, when **[Custom Paper Size]** is selected.

- Unit:

Specify the unit of measurement in "mm" or "inch".

- Horizontal:

Specify the horizontal width between 100 and 216 mm (3.94 and 8.50 inch).

- Vertical:

Specify the vertical length between 148 and 356 mm (5.83 and 14.02 inch).

❖ Tray 2

- Paper Size

You can specify the paper size for tray 2.

The following sizes are available:

A4 (210 x 297 mm), B5 JIS(182 x 257 mm), A5(148 x 210 mm), 8 1/2 x 14,
8 1/2 x 11, 5 1/2 x 8 1/2

- Paper Type

You can specify the paper type for tray 2.

The following paper types are available:

Thin Paper, Thick Paper 1, Plain Paper 1, Recycled Paper, Color Paper,
Preprinted Paper, Prepunched Paper, Letterhead

❖ Tray Priority

Select the priority tray from the **[Default Tray:]** list, when the optional paper feed unit is attached to the printer.

❖ Bypass Tray

- Paper Size

The following sizes are available:

A4 (210 x 297 mm), B5 JIS (182 x 257 mm), A5 (148 x 210 mm), B6 JIS (128 x 182 mm), A6 (105 x 148 mm), 8 1/2 x 14, 8 1/2 x 11, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 16K, 4 1/8 x 9 1/2, 3 7/8 x 7 1/2, C5 Env, C6 Env, DL Env, Custom Paper Size

- Paper Type

The following paper types are available:

Thin Paper, Thick Paper 1, Thick Paper 2, Plain Paper 1, Recycled Paper, Color Paper, Preprinted Paper, Prepunched Paper, Letterhead, Bond Paper, Cardstock, Labels, Envelope, OHP

- Custom Paper Size

You can make the custom paper size settings, when **[Custom Paper Size]** is selected.

- Unit:

Specify the unit of measurement in "mm" or "inch".

- Horizontal:

Specify the horizontal width between 90 and 216 mm (3.54 and 8.50 inch).

- Vertical:

Specify the vertical length between 140 and 356 mm (5.51 and 14.02 inch).

Note

- The paper settings are not available for the bypass tray.
- Tray 2 is available only when the optional paper feed unit is attached to the printer.

Adjusting registrations

On the **[Maintenance]** tab, you can adjust print starting positions.

Normally, you do not have to adjust registrations. However, adjustments could be useful in some cases, especially when you want to print in a specific position. Under **[Registration: Tray 1]**, **[Registration: Tray 2]**, **[Registration: Bypass Tray]**, and **[Registration: Duplex Tray]** you can adjust the print image position printed on the sheet fed from each tray. To check the adjustment result, use **[Print Test Sheet]**.

Setting basic functions

On the **[System]** tab, you can set basic functions required to use the printer. The printer can be used on factory-set defaults, but the configuration can be changed depending on the condition of the user. The changed condition holds even if the printer is turned off.

The access code can be changed on this tab.

Making network-related settings

On the **[Network 1]**, **[Network 2]** and **[Network 3]** tabs, you can set configurations about network connection and communication.

The following operations are possible on these tabs:

- Checking the printer name, active protocol, and other printer information
- Making interface settings, including the timeout setting and protocol settings
- Checking or making TCP/IP settings
- Checking or making SMTP settings
- Checking or making SNMP and Alert settings

Settings conditions for printing

On the **[Printer]** tab, you can set conditions for printing.

In the **[PCL]** area, you can specify the conditions such as Orientation and font settings.

Printer Status Notification by E-Mail

Whenever a toner cartridge becomes empty or paper is jammed, an e-mail alert is issued to the registered addresses to notify the printer status.

Important

- This function is available only if you are using this printer in a network environment.
- Depending on your e-mail application, a phishing warning might appear after you receive an e-mail message. To prevent phishing warnings appearing after you receive e-mail from a specified sender, you must add the sender to your e-mail application's exclusion list. For details about how to do this, refer to your e-mail application's Help.

4

For this notification, you can make the e-mail notification settings.

You can be notified of the following events:

- Paper Jam
- Print Cartridge Empty
- Service Required
- Print Cartridge Near Empty
- No Paper
- Cover Open

Also you can see the information of the printer, such as printer name, serial number and total counter.

1 Open a Web browser, and then enter “[http://\(printer's address\)/](http://(printer's address)/)” in the address bar.

Top Page of Web Image Monitor appears.

2 In the menu area, click [Network Settings].

3 Click the [Alert Messages] tab.

4 In [Display Name], enter the sender's name to be used in the automatic notification e-mail.

5 In the [Email Address] box, enter the recipient's e-mail address.

6 Select the types of errors that you want the recipient to be notified of.

7 Enter the administrator password if required.

8 Click [OK].

Mail Authentication

You can configure mail authentication to prevent illegal use of the mail server. When an e-mail is sent to the SMTP server, authentication is performed using the SMTP AUTH protocol by prompting the mail originator to enter the user name and password.

Follow the procedure below to specify SMTP authentication.

- 1** In the menu area, click **[Network Settings]**.
- 2** Click **[SMTP]** in the **[Network Settings]** page.
- 3** Make the following settings:
 - SMTP Authentication: Select **[SMTP Authentication]** or **[POP Before SMTP]**.
 - User Name: Enter the user name for SMTP Authentication.
 - Password: Enter the password set for the SMTP User Name.
 - System Admin E-mail: Enter the e-mail address.
- 4** Enter the administrator password if required.
- 5** Click **[OK]**.
- 6** Quit Web Image Monitor.

SNMP

You can use the SNMP manager to obtain information about the printer.

The SNMP agent operating on UDP is built into the Ethernet board that is installed in this printer.

Important

- If you change the printer's community name, use Web Image Monitor or Smart Organizing Monitor to change the computer's settings accordingly.

Note

- The default community name is “public”. You can use this community name to obtain MIB information.
- To search for this printer in Smart Organizing Monitor, specify “public” in **[Get Community:]**.

Reading the Configuration Page

Settings made in the **[Printer Configuration]** dialog box are printed.

❖ **Product Name**

Displays the product name.

❖ **System Reference**

Displays the following information about the printer.

- Printer ID
- Total Memory
- Firmware Version
- Printer Language
- Option installation status
- Print Cartridge
- Transfer Roller
- Paper Feed Roller
- Fuser Unit

❖ **Paper Input**

Displays the paper size and type settings.

- Tray Priority
- Bypass Tray
- Tray 1
- Tray 2

❖ **Maintenance**

Displays the settings made under the **[Maintenance]** menu.

- Registration
- Horiz: Tray 1
- Vert: Tray 1
- Horiz: Tray 2
- Vert: Tray 2
- Horiz: Bypass Tray
- Vert: Bypass Tray
- Horiz: Duplex (Type 2 model only)
- Vert: Duplex (Type 2 model only)

❖ **System**

Displays the settings made under the **[System]** menu.

- Auto Continue
- Copies
- Sub Paper Size
- Duplex
- Blank Page Print
- Energy Saver Mode 1
- Energy Saver Mode 2
- Energy Saver Timer
- Default Paper Size
- Print Error Page
- Notification by E-mail
- Low Humidity Mode

❖ **PCL Menu**

Displays settings made under **[Printer]** tab in **[Printer Configuration]** dialog box.

- Orientation
- Form Lines
- Font Number
- Point Size
- Font Pitch
- Symbol Set
- Courier Font
- Ext. A4 Width
- Append CR To LF
- Resolution

❖ **PS Menu**

Displays settings made under **[Printer]** tab in **[Printer Configuration]** dialog box.

- Resolution

❖ Host Interface

- USB Timeout
- Network Timeout
- DHCP
- IP Address
- Subnet Mask
- Gateway Address
- Ethernet
- USB Setting
- Fixed USB Port

❖ Interface Information

- MAC Address
- Host Name

❖ Counter List

- Total Counter
- Duplex Counter (Type 2 model only)

❖ Jam Counter

- Total Counter
- Duplex Jam (Type 2 model only)
- Outer Jam
- Inner Jam
- Tray 1 Paper Misfeed
- Tray 2 Paper Misfeed
- Bypass Tray Paper Misfeed

❖ Error Log

Displays the error logs.

 Note

- The printed items and the contents might be different depending how it was printed.

 Reference

For details about printing printer configuration using Web Image Monitor, see p.52 "Printing Reports".

For details about printing printer configuration using Smart Organizing Monitor, see p.92 "Printer Configuration".

5. Using a Print Server

Preparing Print Server

This section explains how to configure this printer as a Windows network printer. The printer is configured to enabling network clients to use it.

Important

- Under Windows XP Professional or Windows Server 2003/2003 R2, to change printer properties in the [Printer] folder, you need Printer Management access authentication; under Windows Vista or Windows Server 2008, Full Control access authentication. Log on to the file server as an Administrator group.

1 Open the [Printers and Faxes] window from the [Start] menu.

The [Printers and Faxes] window appears.

Under Windows 2000/Vista or Windows Server 2008, the [Printers] window appears.

2 Click the icon of this printer. On the [File] menu, click [Properties].

The printer properties appears.

3 On the [Sharing] tab, click [Share this Printer].

4 To share this printer with users using a different version of Windows, click [Additional Drivers...].

If you have installed an alternative driver by selecting [Share this Printer] during the printer driver installation, this step can be ignored.

5 On the [Advanced] tab, click the [Printing Defaults...] button. Specify the default values for the printer driver that will be distributed to client computers, and then click [OK].

6 Click [OK], and then close the printer properties.

6. Special Operations under Windows

Printing Files Directly from Windows

You can print files directly using Windows commands. For example, you can print PS files for PS3.

You can print files directly using "lpr" or "ftp" command.

Setup

Follow the procedure below to make network environment settings.

- 1** Enable TCP/IP using Smart Organizing Monitor, and then set up the printer's network environment about TCP/IP including IP addresses.

TCP/IP of the printer is set as default.

- 2** Install a TCP/IP in Windows to set up the network environment.

Consult the network administrator for the local setting information.

- 3** To print under Windows 2000/XP/Vista or Windows Server 2003/2003 R2/2008, install "Printing service for UNIX" as the network application.

Reference

For details about setting the IPv4 address of the printer using DHCP, see p.99 "Using DHCP".

Printing Commands

The following explains printing operations using the lpr commands.

Enter commands using the command prompt window. The location of the command prompt varies depending on operating systems:

- Windows 2000
[Start] - [Programs] - [Accessories] - [Command Prompt]
- Windows XP/Vista, Windows Server 2003/2003 R2/2008
[Start] - [All Programs] - [Accessories] - [Command Prompt]

Note

- Match the data format of the file to be printed with the emulation mode of this printer.
- If the message “print requests full” appears, no print jobs can be accepted. Try again when sessions end. For each command, the amount of possible sessions is indicated as follows:
 - lpr: 10
 - ftp: 3
- Enter the file name in a format including the path from the directory executing commands.

Reference

The “option” specified in a command is an intrinsic printer option and its syntax is similar to printing from UNIX.

lpr

❖ When specifying a printer by IP address

```
c:\>lpr -S [printer's IP address] -P [Option] -o l
\path\file name
```

❖ When specifying a printer by host name instead of IP address

```
c:\>lpr -S [printer host name] -P [Option] -o l \path\file
name
```

To print a binary file, include the “-o l” switch (a dash followed by a lowercase O and L) after the printer name.

ftp

Use the “put” or “mput” command according to the number of files to be printed.

❖ **When one file is printed**

```
ftp> put \path\file name [option]
```

❖ **When multiple files are printed**

```
ftp> mput \path\file name [\path\file name...] [option]
```

1 Formulate the printer's IP address or the host name of the hosts file printer as an argument and use the “ftp” command.

```
% ftp printer's IP address
```

2 Enter the user name and password, and then press the [Enter] key.

For details about the user name and password, consult your network administrator.

User:

Password:

3 When printing a binary file, set the file mode to binary.

```
ftp> bin
```

When printing a binary file in ASCII mode, print may not come out correctly.

4 Specify files to be printed.

The following shows the examples of printing a PostScript 3 file named “file 1” in the “C:\PRINT” directory and printing file 1 and file 2.

```
ftp> put C:\PRINT\file1 filetype=RPS
```

```
ftp> mput C:\PRINT\file1 C:\PRINT\file2
```

5 Quit ftp.

```
ftp> bye
```

 **Note**

- “=”, “;”, “_”, and “;” cannot be used for file names. File names will be read as option strings.
- For “mput” command, option cannot be defined.
- For “mput” command, “*” and “?” can be used as wild cards in file names.
- When printing a binary file in ASCII mode, print may not come out correctly.

7. Mac OS X Configuration

This chapter explains how to use this printer under Mac OS X.

The example procedures in this chapter explain configuration under Mac OS X 10.4.

Installing the PostScript 3 Printer Driver

Important

- If you want to use this printer in a Mac OS environment, update to Mac OS 10.2.8 or higher.

1 Insert the CD-ROM into the CD-ROM drive.

2 Double-click the CD-ROM icon.

3 Double-click the [Mac OS X] folder.

4 Double-click the [PPD Installer] folder.

5 Double-click the package file icon.

6 Follow the instructions on the screen.

Specifying the Printer

This section explains how to configure this printer using Printer Setup Utility.

Using USB

Use this procedure to connect the computer to the printer via USB.

The printer is automatically added, if the connection is successfully detected.

1 Connect the printer and computer using the USB cable, and then turn the printer's power switch to on.

2 Start [Printer Setup Utility].

Under Mac OS X 10.5, start [System Preferences] and click [Print & FAX].

Under Mac OS X 10.3, click [Print & FAX] in [System Preferences], and then click [Set Up Printers...].

Under Mac OS X 10.2.8, start [Print Center].

3 Click [Add] or the [+] button.

❖ **Mac OS X 10.5**

Click [Default].

❖ **Mac OS X 10.4**

Click a printer that has "USB" indicated in the "Connection" column.

❖ **Mac OS X 10.3 or lower**

Click [USB] on the pop-up menu.

The connected printer appears.

4 Select the printer, and then select its manufacturer from the [Print Using] pop-up menu.

Under Mac OS X 10.5, select the printer you are using from the [Printer Name] list, and [kind] of USB.

Under Mac OS X 10.3 or lower, select the printer you are using from the [Printer Model:] pop-up menu.

5 Select the connected printer from the list of printer models, and then click [Add].

6 Quit [Printer Setup Utility].

 **Note**

USB2.0 can be used only with Mac OS X 10.3.3 or higher.

Using TCP/IP

To connect the printer via TCP/IP, you must complete the following four steps.

- ① Print the test page
- ② Install Smart Organizing Monitor if necessary
- ③ Specify the printer's IP address if necessary
- ④ Add the printer using **[Printer Setup Utility]**

Note

- If the printer is obtaining its IP address automatically from a DHCP server, you do not need to perform "2. Install Smart Organizing Monitor" and "3. Specify the printer's IP address".

Printing a test page

To install the printer driver, you must first confirm the printer's IP address.

Make sure the network cable is properly connected to the printer before you print the test page.

- 1** Turn the printer's power switch to off, and then wait a few seconds.
- 2** While pressing down the **[Job Reset]** key, turn the printer's power switch back to on, and then keep the key pressed down until the Alert indicator flashes once.
- 3** Printing starts when the printer is fully warmed up.

Printing starts approximately 30 seconds after the Alert Indicator starts blinking.

Note

- If the printer is obtaining its IP address automatically from a DHCP server, you do not need to install Smart Organizing Monitor separately. Proceed to p.83 "Setting Up the PPD File" and add the printer.
- If the printer cannot obtain its IP address from a DHCP server, install Smart Organizing Monitor and specify the IP address, before adding the printer.
- You can also use Web Image Monitor to change the IP address obtained from a DHCP server. To access Web Image Monitor, use the IP address printed on the test page.

Reference

For details about Web Image Monitor, see p.37 "Using Web Image Monitor".
For the installation procedure, see p.89 "Installing Smart Organizing Monitor".

Specifying the printer's IP address

Important

- If the printer is obtaining its IP address automatically from a DHCP server, you do not need to perform this procedure. Proceed to p.83 “Setting Up the PPD File” and add the printer.

1 Connect the printer and computer using the USB cable, and then turn the printer's power switch to on.

2 Start Smart Organizing Monitor from the [Applications] folder.

The [Printer Driver Selection] dialog box appears.

3 In the [Printer Driver Selection] dialog box, select this printer, and then click [OK].

Smart Organizing Monitor appears.

4 On the [User Tools] tab, click [IP Address].

5 In [IP Address], enter the IP address you want to set for the printer.

The MAC address is displayed automatically.

Setting Up the PPD File

1 Start [Printer Setup Utility].

Under Mac OS X 10.5, start [System Preferences] and click [Print & FAX].

Under Mac OS X 10.3, click [Print & FAX] in [System Preferences], and then click [Set Up Printers...].

Under Mac OS X 10.2.8, start [Print Center].

2 Click [Add] or [+] button.

- Mac OS X 10.5
Click [Default]. If the printer name is not displayed, select the icon that corresponds to your network environment.
- Mac OS X 10.4
Click [More Printers...]. Then select the zone from the second pop-up menu.
- Mac OS X 10.3 or lower
Click [Rendezvous] on the first pop-up menu.

3 Select the printer, and then select its manufacturer from the [Print Using] pop-up menu.

Under Mac OS X 10.5, select the printer you are using from the [Printer Name] list.

Under Mac OS X 10.3 or lower, manufacturer from the [Printer Model:] pop-up menu.

4 Select the connected printer from the list of printer models, and then click [Add].

5 Quit [Printer Setup Utility].

Setting Up Options

Use this procedure to configure the printer's options.

1 Start [Printer Setup Utility].

Under Mac OS X 10.5, start [System Preferences] and click [Print & FAX].

Under Mac OS X 10.3, click [Print & FAX] in [System Preferences], and then click [Set Up Printers...].

Under Mac OS X 10.2.8, start [Print Center].

The printer list appears.

2 Select this printer.

- Mac OS X 10.5
Click [Options & Supplies...].
- Mac OS X 10.4
Click [Printer Setup...], and then proceed to step 4.
- Mac OS X 10.3 or lower
Click [Show Info].

3 Select [Installable Options] or [Driver].

4 Select the option you want to set up, and then select an appropriate setting for it.

5 Click [Apply Changes] or [OK].

6 Exit [Printer Setup Utility].

Note

- If the option you want to select is not displayed, PPD files may not be set up correctly. To complete the setup, check the name of the PPD file displayed in the dialog box.

Setting Up for Printing

Use the following procedures to configure the printer.

Making paper settings from an application

- 1** Open the file you want to print.
- 2** On the [File] menu, click [Page Setup...].
- 3** Check that the printer you want to use is displayed in [Format for], and then select the paper size you want to use in [Paper Size].

If this printer is not displayed in [Format for], select the printer you want to use.

- 4** Configure the settings, and then click [OK].

Reference

The [Page Setup...] dialog box varies depending on the application you use. For details, see the manuals provided with the Mac OS X.

Setting up for printing from an application

- 1** Open the file you want to print.
- 2** On the [File] menu, click [Print...].
- 3** In the [Printer] list, select the printer.
- 4** Configure the print settings, and then click [Print].

Canceling a Print Job from the Computer

1 Start [Printer Setup Utility].

Under Mac OS X 10.5, start [System Preferences] and click [Print & FAX].

Under Mac OS X 10.3, click [Print & FAX] in [System Preferences], and then click [Set Up Printers...].

Under Mac OS X 10.2.8, start [Print Center].

2 Double-click the name of this printer.

3 Select the name of the job you want to cancel, and then click the Delete icon.

Note

- If the printer is shared by multiple computers, be careful not to cancel a print job of other user.
- You cannot stop printing data that has already been processed. For this reason, printing may continue for a few pages after you cancel printing.
- To stop a large data size print job may take a while.

Using PostScript 3

Use the PostScript 3 driver to print files.

You can use the following functions if **[Printer Features]** is selected in the **[Print]** dialog:

❖ **Media Type**

Use this function to select the paper type.

In the **[Feature Sets]** list, select **[Media Type]**, and then, in the **[Media Type]** list, select the paper type you want to use for printing.

❖ **Dithering**

Use this function to specify the rendering mode.

In the **[Feature Sets]** list, select **[Dithering]**, and then, in the **[Dithering]** list, select the rendering mode.

You can select Automatic, Photographic, or Text.

❖ **Print Quality**

Use this function to select the print quality.

In the **[Feature Sets]** list, select **[Imaging]**, and then, in the **[Print Quality]** list, select the print quality.

You can select 600 x 600 dpi or 1200 x 600 dpi.

❖ **Toner Saving**

Use this function to reduce the amount of toner used when printing.

To reduce toner consumption, in the **[Feature Sets]** list, select **[Toner]**. Then set **[Toner Saving]** to **[On]**.

❖ **Print Blank Pages**

Use this function to print blank pages.

To print blank pages, in the **[Feature Sets]** list, select **[Toner]**. Then set **[Print Blank Pages]** to **[On]**.

❖ **Watermark Type**

Use this function to select the watermark style.

In the **[Feature Sets]** list, select **[Watermark Text]**, and then select the watermark type in the list.

You can select Outlined, Solid, or Transparent Text.

❖ Watermark Text

Use this function to select the watermark text.

In the **[Feature Sets]** list, select **[Watermark Text]**, and then select the watermark text in the list.

You can select the following text:

- CONFIDENTIAL
- URGENT
- DRAFT
- ORIGINAL
- COPY

❖ Watermark Font Size (Points)

Use this function to select the watermark font size.

In the **[Feature Sets]** list, select **[Watermark Text]**, and then, select the watermark font size in the list.

❖ Watermark Font Typeface

Use this function to select the watermark font typeface.

In the **[Feature Sets]** list, select **[Watermark Text]**, and then, select the watermark typeface.

❖ Watermark Font Shading

Use this function to select the watermark font shading.

In the **[Feature Sets]** list, select **[Watermark Text]**, and then, select the watermark font shading in the list.

❖ Watermark Position

Use this function to select the watermark position.

In the **[Feature Sets]** list, select **[Watermark Location]**. Then, in the **[Watermark Position (Horizontal)]** and **[Watermark Position (Vertical)]** lists, select the horizontal and vertical positions, respectively.

❖ Watermark Angle

Use this function to select the watermark angle.

In the **[Feature Sets]** list, select **[Watermark Location]**, and then , select the watermark angle in the list.

❖ Watermark

Use this function to select which page(s) to print the watermark on.

In the **[Feature Sets]** list, select **[Watermark Location]**, and then, in the **[Watermark]** list, select which page(s) you want to print the watermark on.

You can select Off, First Page Only, or All Pages.

Using Smart Organizing Monitor

This section explains about using Smart Organizing Monitor under Mac OS X. Using Smart Organizing Monitor, you can check the printer status and change printer settings from your client computer.

The following operations are possible with Smart Organizing Monitor:

- Displaying printer status or settings
- Printing a list of printer configurations
- Making settings for paper loaded into each input tray
- Making input tray settings
- Changing factory-set default settings
- Making network protocol settings
- Making printer settings
- Displaying the printer status and supply information
- Making SMTP Settings
- Making SNMP Settings
- Making Alert Settings
- Making PCL Settings

Installing Smart Organizing Monitor

Follow the procedure below to install Smart Organizing Monitor under Mac OS X.

- 1** Insert the CD-ROM into the CD-ROM drive.
- 2** Double-click the CD-ROM icon.
- 3** Double-click the [Mac OS X] folder.
- 4** Double-click the [Utility] folder.
- 5** Double-click the package file icon.
- 6** Follow the instructions on the screen.

Displaying the Smart Organizing Monitor Dialog Box

To display the Smart Organizing Monitor dialog box, double-click [Smart Organizing Monitor] in the [Applications] folder.

Displaying the Printer Status

In the Smart Organizing Monitor dialog box, you can check the status of monitored printers. The printer status is displayed using graphics and comments.

Note

- ❑ If Smart Organizing Monitor is monitoring multiple printers, the **[Printer Driver Selection]** dialog box appears. Select the printer driver used by the target printer, and then click **[OK]**. To check the status of a network printer, click **[Search Network Printer]**.

Displaying the Printer Information

Smart Organizing Monitor features three tabs, **[Status]**, **[Job Log]**, and **[User Tools]**. On these tabs, you can view information about a monitored printer, such as its configuration details and current status.

Displaying the printer status

When you click the **[Status]** tab, the printer name and tree appear. Click an item in the tree to display information relating to it.

❖ **Print Cartridge**

Displays the remaining amount of each toner. The following are used to indicate the remaining amount: Level 1 to 5, “Almost Empty” and “Empty”.

A graphic also indicates each toner’s status.

❖ **Input Tray**

You can check the following information about the input trays.

- **Input Tray**
Displays the installed input trays.
- **Status**
Displays the input tray status using a graphic.
- **Paper Size**
Displays the size of the paper loaded into each input tray.
- **Paper Type**
Displays the type of the paper loaded into each input tray.

❖ **Maintenance**

Displays the consumable names and status. The graphics also indicate the consumables status.

❖ System

Displays the system information about the printer, such as the model name, system version, memory size, and printer language.

❖ Counter

Displays information about the counter.

❖ Network

Displays network details such as the printer's IP address and network-related comments.

🔍 Reference

For details about what you can perform on each tab in the Smart Organizing Monitor dialog box, see Smart Organizing Monitor Help.

Printing the printer configurations

On the **[User Tools]** tab, you can print lists of printer information.

🚨 Important

- You can print the configuration page only when the printer is not busy processing jobs.
- To use this function, the printer must be monitored from Smart Organizing Monitor via a supported printer driver.

In the **[List/Test Print:]** list, select the item you want to print. You can print the following:

❖ Configuration Page

The current configurations and general information of the printer are printed.

❖ PCL Config./Font Page

The installed PCL font list is printed.

❖ PS Config./Font Page

The installed PS font list is printed.

Use the printed configuration page to check the information, such as general information and printer configuration.

The procedure for printing the configuration page is described as an example.

1 On the **[User Tools]** tab, in the **[List/Test Print:]** list, select **[Configuration Page]**.

2 Click **[Print]**.

The configuration page is printed.

Printer Configuration

Clicking **[Printer Configuration]** on the **[User Tools]** tab enables you to change the printer settings in the **[Printer Configuration]** dialog box.

You can use the **[Printer Configuration]** dialog box to change the settings of:

- Paper Input
- Maintenance
- System
- Network
- Printer

Note

- [Printer Configuration]** can be used only when there are no print jobs waiting to be processed on this printer.

Reference

For details about each item you can specify in the **[Printer Configuration]** dialog box, see Smart Organizing Monitor Help.

About menu and mode

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There are two modes you can use to access the **[Printer Configuration]** dialog box: for administrator mode and general users mode.

Available tabs in the **[Printer Configuration]** dialog box differ depending on the mode you are in.

❖ **Administrator**

In the **[Access Code]** dialog box, enter an access code.

All tabs in the **[Printer Configuration]** dialog box are available.

❖ **General users**

Only the **[Paper Input]** tab is available.

Changing the paper settings

On the **[Paper Input]** tab, you can change paper size and other paper settings.

Note

- The paper settings are not available for the bypass tray.

❖ **Tray 1**

- **Paper Size**

The following sizes are available:

A4 (210 x 297 mm), B5 JIS (182 x 257 mm), A5 (148 x 210 mm),
B6 JIS (128 x 182 mm), A6 (105 x 148 mm), 8 1/2 x 14, 8 1/2 x 11,
5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, 16K,
Custom Paper Size

- **Paper Type**

The following paper types are available:

Thin Paper, Thick Paper 1, Plain Paper 1, Thick Paper 2, Recycled Paper,
Color Paper, Preprinted Paper, Prepunched Paper, Letterhead, Bond Paper,
Cardstock, Labels

- **Custom Paper Size**

You can make the custom paper size settings, when **[Custom Paper Size]** is selected.

- **Unit:**

Specify the unit of measurement in "mm" or "inch".

- **Horizontal:**

Specify the horizontal width between 100 and 216 mm (3.94 and 8.50 inch).

- **Vertical:**

Specify the vertical length between 148 and 356 mm (5.83 and 14.02 inch).

❖ **Tray 2**

- **Paper Size**

The following sizes are available:

A4 (210 x 297 mm), B5 JIS(182 x 257 mm), A5(148 x 210 mm), 8 1/2 x 14,
8 1/2 x 11, 5 1/2 x 8 1/2

- **Paper Type**

The following paper types are available:

Thin Paper, Plain Paper 1, Thick Paper 1, Recycled Paper, Color Paper,
Preprinted Paper, Prepunched Paper, Letterhead

❖ **Tray Priority**

Select the priority tray from the **[Default Tray:]** list, when the optional paper feed unit is attached to the printer.

❖ Bypass Tray

- Paper Size

The following sizes are available:

A4 (210 x 297 mm), B5 JIS (182 x 257 mm), A5 (148 x 210 mm), B6 JIS (128 x 182 mm), A6 (105 x 148 mm), 8 1/2 x 14, 8 1/2 x 11, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 16K, 4 1/8 x 9 1/2, 3 7/8 x 7 1/2, C5 Env, C6 Env, DL Env, Custom Paper Size

- Paper Type

The following paper types are available:

Thin Paper, Thick Paper 1, Plain Paper 1, Thick Paper 2, Recycled Paper, Color Paper, Preprinted Paper, Prepunched Paper, Letterhead, Bond Paper, Cardstock, Labels, Envelope, OHP

- Custom Paper Size

You can make the custom paper size settings, when **[Custom Paper Size]** is selected.

- Unit:

Specify the unit of measurement in "mm" or "inch".

- Horizontal:

Specify the horizontal width between 90 and 216 mm (3.54 and 8.50 inch).

- Vertical:

Specify the vertical length between 140 and 356 mm (5.51 and 14.02 inch).

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Note

- Tray 2 is available only when the optional paper feed unit is attached to the printer.

Adjusting registration

On the **[Maintenance]** tab, you can adjust print starting positions.

Normally, you do not have to adjust registration. However, adjustment can be useful in some cases, especially if you want to print in a specific position. Under **[Registration: Tray 1]**, **[Registration: Tray 2]**, **[Registration: Bypass Tray]**, and **[Registration: Duplex Tray]** you can adjust the print image position printed on the sheet fed from each tray. To check the adjustment result, use **[Print Test Sheet]**.

Setting basic functions

On the **[System]** tab, you can set the basic functions required to use the printer. The printer can be used on factory-set defaults, but the configuration can be changed depending on the condition of the user. The changed condition holds even if the printer is turned off.

The access code can be changed on this tab.

Making network-related settings

On the **[Network 1]**, **[Network 2]**, and **[Network 3]** tabs, you can set configurations about network connection and communication.

The following operations are possible on these tabs:

- Checking the device name and other printer information
- Making interface settings, including the timeout setting
- Checking or making TCP/IP settings
- Checking or making SMTP settings
- Checking or making SNMP and Alert settings

Settings conditions for printing

On the **[Printer:]** tab, you can set conditions for printing.

In the **[PCL]** area, you can specify the conditions such as Orientation and font settings.

Note

- Only PCL related settings can be modified in this area.

Software and Utilities Included on the CD-ROM

The following software and utility are included in the CD-ROMs that come with this printer.

❖ **Smart Organizing Monitor**

Allows users and system administrators to check and configure the printer from a client computer.

Viewing the contents of the CD-ROM

Follow the procedure below to view the contents of the CD-ROM.

1 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

2 Click **[Browse This CD-ROM]**.

Explorer starts and displays the contents of the CD-ROM.

Printer Drivers for this Printer

Printing requires installing a printer driver appropriate to your operating system. The following driver is included on the CD-ROM provided with this printer.

❖ **PCL 6 printer driver**

This printer driver allows the computer to communicate with the printer via a printer language.

The following operating system is supported.

- Windows 2000/XP/Vista and Windows Server 2003/2003 R2/2008

❖ **PostScript 3 Printer Drivers and PPD files**

PostScript 3 printer driver and the PPD files are included on the CD-ROM provided with this printer. PostScript 3 printer driver allow the computer to communicate with the printer using a printer language. PPD files allow the printer driver to enable specific printer functions.

The following operating system is supported.

- Windows 2000/XP/Vista, Windows Server 2003/2003 R2/2008, and Mac OS X 10.2.8 (or later)

Note

- The PostScript 3 printer driver and PPD files are included on the CD-ROM labeled "Printer Drivers and Utilities".

❖ **PPD files**

PPD files are included on the CD-ROM provided with this printer. PPD files allow the printer driver to enable specific printer functions.

Smart Organizing Monitor

You can use Smart Organizing Monitor to check and configure the printer from a client computer.

❖ **File path**

UTILITY

❖ **Available functions**

Smart Organizing Monitor enables you to check the printer settings as well as configuring them from your client computer.

 **Reference**

For information about using Smart Organizing Monitor, see p.57 “Using Smart Organizing Monitor”.

Cautions to Take When Using in a Network

Using DHCP

You can use this printer in a DHCP environment.

- Supported DHCP servers are those which are included with Windows 2000 Server, and Windows Server 2003/2003 R2/2008.
- DHCP relay-agent is not supported. If you use DHCP relay-agent on a network via ISDN, it will result in increased line charges. This is because your computer connects to the ISDN line whenever a packet is transferred from the printer.
- If there is more than one DHCP server, use the same setting for all servers. The printer operates using data from the DHCP server that responds first.

Using AutoNet

If the printer's IPv4 address is not assigned by a DHCP server automatically, a temporary IPv4 address starting with 169.254, which is not used on the network, can be automatically selected by the printer.

If an AutoNet address is set as the printer's IP address, it changes every time you turn on the printer. Configure the TCP/IP settings according to your network environment.

You must change this setting to “on” to use AutoNet.

Note

- The IP address assigned by the DHCP server is given priority over that selected by AutoNet.
- You can confirm the current IPv4 address on the configuration page.
- The printer cannot communicate with devices that do not have the AutoNet function. However, this printer can communicate with Macintosh computers running Mac OS X 10.2.3. or higher.

Using Adobe PageMaker Version 6.0, 6.5, or 7.0

Under Windows 2000/XP with Adobe PageMaker, you need to copy PPD files to the PageMaker folder.

PPD files have the ".ppd" extension in the folder "DRIVERS\PS\XP_VISTA\
(Language)\DISK1\" on the CD-ROM.

The third folder "(Language)" may be substituted by an appropriate language name.

Copy the ".ppd" file to the PageMaker folder.

- **For PageMaker 6.0 default installation**
The directory is "C:\PM6\RSRC\PPD4".
- **For PageMaker 6.5 default installation**
The directory is "C:\PM65\RSRC\USENGLISH\PPD4".
The "USENGLISH" may vary depending on your language selection.
- **For PageMaker 7.0 default installation**
The directory is "C:\PM7\RSRC\USENGLISH\PPD4".
The "USENGLISH" may vary depending on your language selection.

Note

- If the driver is not set correctly after copying the ".ppd" file, printing may not be performed properly.
- When using PageMaker, the optional features that can be selected by the printer driver will not be active. The following procedure describes how to activate the optional printer features.
 - ① On the **[File]** menu, click **[Print]**.
The **[Print Document]** dialog box appears.
 - ② Make the necessary settings in the **[Features]** box.

When Using Windows Terminal Service/Citrix Presentation Server/Citrix XenApp

The following explains how to use Windows Terminal Service and Citrix Presentation Server/Citrix XenApp.

Operating Environment

The following operating systems and Citrix Presentation Server/Citrix XenApp versions are supported.

❖ Windows 2000 Server/Advanced Server

- Citrix Presentation Server 4.0
- Citrix XenApp 4.5

❖ Windows Server 2003/2003 R2

- Citrix Presentation Server 4.0
- Citrix XenApp 4.5

Supported Printer Drivers

❖ When Windows Terminal Service is operating

- PCL printer driver
- PostScript 3

Limitations

The following limitations apply to the Windows Terminal Service environment. These limitations are built in Windows Terminal Service or Citrix Presentation Server/Citrix XenApp.

❖ **Citrix Presentation Server/Citrix XenApp [Auto-creating client printers]**

Using **[Auto-creating client printers]**, you can select a logical printer created by copying the client's local printer data to the Citrix Presentation Server/Citrix XenApp. We strongly recommend testing this function in your network environment before using it for your work.

- The settings for optional equipment will not be stored in the server after the equipment is disconnected. The settings for optional equipment will be restored to its defaults each time the client computer logs on to the server.
- When printing a large number of bitmap images or using the server in a WAN environment over dial-up lines such as ISDN, printing may not be possible or errors may occur, depending on data transfer rates.

❖ **Citrix Presentation Server/Citrix XenApp [Printer driver replication]**

Using **[Printer driver replication]**, you can distribute printer drivers across all servers in a server farm. We strongly recommend testing this function in your network environment before using it for your work.

- If the printer drivers are not properly copied, install them directly onto each server.

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Note

- PostScript 3 in this manual stands for "Adobe PostScript 3 Emulation".

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