

Operating Instructions **Driver Installation Guide**

- 1 About Quick Install
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- 3 Local Connection
- 4 When Using the Printer under Mac OS
- **5** 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.

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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.

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 manufacturer recommends that you use genuine toner from the manufacturer.

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

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.

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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 on the machine's display or control panels.

Installing the Printer Drivers

This section provides a brief overview of the procedures for installing the printer drivers under Windows and Mac OS.

Windows Installation

Quick Install

This method allows you to install the printer drivers easily from the CD-ROM provided. If you select this installation method, the standard TCP/IP port will be automatically specified, and the PCL 6 driver will be installed across the network environment.

· Installation according to environment

You can manually specify which port you want to use, based on the configuration of your environment.

This method also allows you to configure the PCL 5e/5c and PostScript 3 drivers to print over a network or through a local connection.

If you install SmartDeviceMonitor for Client on your computer, the SmartDeviceMonitor for Client port will also be available. This port allows you to monitor the printer's status and check the results of its jobs.

Choose the installation method that is most appropriate for your environment, intended purpose, and connection type.

Mac OS Installation

If you install the PPD file for this printer into a Mac OS, you can print over a network (using Bonjour) or through a local connection.



- You can install the printer driver from the CD-ROM provided with this printer or download it from the manufacturer's Web site.
- If your operating system is Windows XP Pro x64, Windows Vista x64, or Windows Server 2003 x64/2003 R2 x64/2008 x64, you must download the printer driver from the manufacturer's Web site. Select this printer and the operating system you are using, and then download it.

1. About Quick Install

This chapter explains the "Quick Install" procedure. This installation method allows users to install the drivers easily, and requires minimal manual settings.

Quick Install

You can install the printer drivers easily from the CD-ROM provided with this printer.

Using Quick Install, the PCL 6 printer driver is installed under network environment, and the Standard TCP/IP port will be set.

Mportant (

- Manage Printers permission is required to install the drivers. Log on as an Administrators group member.
- If you connect using USB, see "Installing the Printer Driver Using USB" and install the printer driver.
- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

4. Click [Quick Install].

The software license agreement appears in the [License Agreement] dialog box.

- After reading the agreement, click [I accept the agreement.] and then click [Next >].
- 6. Select the printer model you want to use in the [Select Printer] dialog box.

For network connection via TCP/IP, select the printer whose IP address is displayed in [Connect To]. For parallel connection, select the printer whose printer port is displayed in [Connect To].

7. Click [Install].

The printer driver installation starts.

The PCL 6 printer driver is installed in the language specified by your operating system.

8. Click [Finish].

A message about restarting the computer appears. Restart the computer to complete the installation.

9. Click [Exit] in the first dialog box of the installer, and then take out the CD-ROM.



• To stop installation of the selected software, click [Cancel] before the installation is complete.

- 1
- Select a printer whose IP address is displayed in [Connect To] to install SmartDeviceMonitor for Client when using TCP/IP.
- Quick Install is not available unless bidirectional communication between the printer and computer
 is enabled via parallel connection. For details about bidirectional communication between the printer
 and computer, see "Making Option Settings for the Printer".

Reference

- p.35 "Installing the Printer Driver Using USB"
- p.54 "Making Option Settings for the Printer"

2. Network Connection

This chapter explains how to install the printer driver under Windows for a network-connected printer.

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

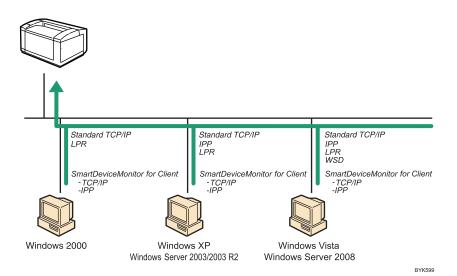
Confirming the Connection Method

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

Using This Printer as the Windows Printing Port

Network connections can be established through Ethernet and Wireless LAN.

Available ports are determined based on the combination of the Windows operating system version and connection method used.



Windows 2000/XP, Windows Server 2003/2003 R2

Connection Method	Available Ports
• Ethernet	Standard TCP/IP port
Wireless LAN	IPP port
	• LPR port
	SmartDeviceMonitor for Client port

Windows Vista, Windows Server 2008

Connection Method	Available Ports
• Ethernet	Standard TCP/IP port
Wireless LAN	IPP port
	• LPR port
	WSD port
	SmartDeviceMonitor for Client port



- See the explanation about how to install the printer driver for each type of ports.
- For details about the Standard TCP/IP port, see "Using the Standard TCP/IP port".
- For details about the IPP port, see "Using the IPP port".
- For details about the LPR port, see "Using the LPR port".
- For details about the WSD port, see "Using the WSD port".
- For details about the SmartDeviceMonitor for Client port, see "Using the SmartDeviceMonitor for Client port".

Reference

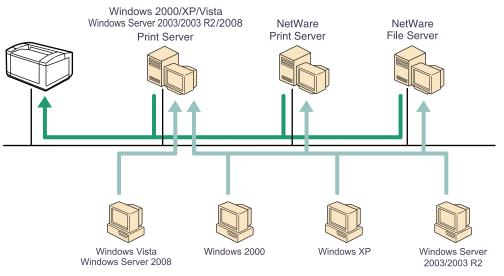
- p.10 "Using the Standard TCP/IP Port"
- p.13 "Using the IPP Port"
- p.15 "Using the LPR Port"
- p.18 "Using the WSD Port"
- p.20 "Using the SmartDeviceMonitor for Client Port"

Using as the Network Printer

This printer can be used as the Windows network printer, a NetWare print server, or a NetWare remote printer.



• IPX/SPX (NetWare) cannot be used under Windows Vista and Windows Server 2008.



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- In an IPv6 environment, NetWare servers cannot be used.
- See the explanation about how to install the printer driver for each type of network printers.
- For details about Windows network printer, see "Using as the Windows Network Printer".
- For details about a NetWare print server and remote printer, see "Using as the NetWare Print Server/ Remote Printer".

Reference

- p.28 "Using as the Windows Network Printer"
- p.31 "Using as the NetWare Print Server/Remote Printer"

Installing the Printer Driver for the Selected Port

You can install the appropriate driver according to the port you want to use.

Using the Standard TCP/IP Port

This describes how to install the PCL 5e/5c/6 or PostScript 3 printer drivers using the Standard TCP/IP port.

Mportant (

- Manage Printers permission is required to install the driver. Log on as an Administrators group member.
- In an IPv6 environment, you cannot use the Standard TCP/IP Port. Use the SmartDeviceMonitor for Client port.

Installing the PCL printer driver

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

- 4. Click [PCL Printer Driver].
- 5. The software license agreement appears in the [License Agreement] dialog box.

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

6. Select a printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

The PCL 6 printer driver is installed in the language specified by your operating system.

- 7. Click [Next>].
- 8. Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

9. Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

10. Click [Port], and then click [Add].

11. Click [Standard TCP/IP Port], and then click [OK].

Configure the Standard TCP/IP port settings. See Windows Help if [Standard TCP/IP Port] does not appear.

- 12. Click [Next >] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.
- 13. Enter the printer name or IP address in the [Printer Name or IP Address] box.

The [Port Name] text box automatically obtains a port name. Change this name if necessary. When the device selection appears, select "RICOH NetworkPrinter Driver C Model".

- 14. Click [Next>].
- 15. Click [Finish] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.

The installation start dialog box reappears.

- 16. Check that the port of the selected printer is displayed in [Port].
- 17. Configure the default printer as necessary.
- 18. Click [Continue].

The printer driver installation starts.

19. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete the installation.



- To stop installation of the selected driver, click [Cancel] before 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 "Messages Displayed When Installing the Printer Driver".

Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Installing the PostScript 3 printer driver

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Suomi, Magyar, Cestina, Polski, Portugues, Russian.

4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

Step 5 does not apply for Windows Vista users.

- 5. Click [Next>].
- **6.** Click [Local printer] or [Local printer attached to this computer], and then click [Next >]. If you are using Windows Vista, you do not need to click [Next >].
- 7. Click [Create a new port:].
- Click [Standard TCP/IP Port], and then click [Next >].
 If you are using other than Windows 2000, [Standard TCP/IP Port] in [Create a new port].
- 9. Click [Next >] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.
- 10. Enter the printer name or IP address in the [Printer Name or IP Address] box.
 The [Port Name] text box automatically obtains a port name. Change this name if necessary.
 When screen for Device selection appears, select "RICOH NetworkPrinter Driver C Model".
- 11. Click [Next>].
- 12. Click [Finish] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.
- 13. Check that the name of the printer whose driver you want to install is selected, and then click [Next >].
- 14. Change the printer name if you want, and then click [Next >].

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

Step 15 does not apply for other than Windows 2000 users.

- 15. Specify whether or not to print a test page.
- 16. Click [Next>].
- 17. Specify whether or not to share the printer, and then click [Next >].
- 18. Specify whether or not to print a test page.

If you are using other than Windows Vista, click [Next >].

19. Click [Finish].

The printer driver installation starts.



- To stop installation of the selected driver, click [Cancel] before 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 "Messages Displayed When Installing the Printer Driver".

Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Using the IPP Port

This describes how to install the PCL printer driver using the IPP port.



- Manage Printers permission is required to install the driver. Log on as an Administrators group member.
- In an IPv6 environment, you cannot use the IPP Port. Use the SmartDeviceMonitor for Client port.
- The IPP port cannot be used under Windows 2000. If you are using Windows 2000, install the printer
 driver using the SmartDeviceMonitor for Client port. To use the SmartDeviceMonitor for Client port,
 you must first download SmartDeviceMonitor for Client from the manufacturer's Web site. For details
 about the SmartDeviceMonitor for Client port, see "Using the SmartDeviceMonitor for Client Port".
- Installation of the certificate is especially necessary for users who want to print via IPP-SSL from Windows Vista or Windows Server 2008. For details, consult your administrator.
- If a certificate authority issues a certificate that must be authenticated by an intermediate certificate authority, and the certificate is installed on this machine, an intermediate certificate must be installed on the client computer. Otherwise, validation by the certificate authority will not be performed correctly. If validation cannot be performed properly, a warning message informing you that installation is not possible might appear when you try to add a printer using IPP-SSL under Windows Vista or Windows Server 2008. To enable authentication from the client computer, install the intermediate certificate on the client computer, and then reestablish connection.
- Intermediate certificates cannot be installed on this machine.

Reference

• p.20 "Using the SmartDeviceMonitor for Client Port"

Installing the PCL printer driver

- 1. Quit all applications currently running.
- 2. On the [Start] menu, click [Printers and Faxes].
- Click [Add a printer].The [Add printer Wizard] dialog box appears.
- 4. Click [Next>].
- 5. Click [A network printer, or a printer attached to another computer].
- 6. Click [Next>].
- 7. Click [Connect to a printer on the Internet or on a home or official network:].

- In the [URL:] box, enter "http://printer's IP address/printer (or ipp)" as the printer's address, and then click [Next >].
- 9. Click [Have Disk...].
- 10. Insert the provided CD-ROM into the computer's CD-ROM drive.

If the [AutoPlay] dialog box appears, click the [close] button.

11. Click [Browse...], and then specify a location for the inf file.

If the CD-ROM drive letter is D, the printer driver's source files are stored in "D:\DRIVERS\(PCL5E or PCL5C)\XP_VISTA\(Language\)\DISK1" or "D:\DRIVERS\PCL6\XP_VISTA\MUI\DISK1".

The PCL 6 printer driver is installed in the language specified by your operating system.

- 12. Click [OK] to close the [Install From Disk] window.
- 13. Select the printer you want to use, and then click [OK].

Only printers that respond to a broadcast from the computer appear. To use a printer not listed here, click [Specify Address], and then enter the IP address or host name of the printer.

14. Configure the default printer as necessary, and then click [Next >].

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

15. Click [Finish].

If installation is successful, the icon of the printer connected to the IPP port is added to the [Printers and Faxes] window.



• To stop installation of the selected driver, click [Cancel] before installation is complete.

Installing the PostScript 3 printer driver

- 1. Quit all applications currently running.
- 2. On the [Start] menu, click [Printers and Faxes].
- 3. Click [Add a printer].

The [Add printer Wizard] dialog box appears.

- 4. Click [Next>].
- 5. Click [A network printer, or a printer attached to another computer].
- 6. Click [Next>].
- Click [Connect to a printer on the Internet or on a home or official network:].
- 8. In the [URL:] box, enter "http://printer's IP address/printer (or ipp)" as the printer's address, and then click [Next >].
- 9. Click [Have Disk...].

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

If the [AutoPlay] dialog box appears, click the [close] button.

11. Click [Browse...], and then specify a location for the inf file.

If the CD-ROM drive letter is D, the printer driver's source files are stored in "D:\DRIVERS\PS\XP_VISTA\(Language)\DISK1".

- 12. Click [OK] to close the Install From Disk window.
- 13. Select the printer you want to use, and then click [OK].

Only printers that respond to a broadcast from the computer appear. To use a printer not listed here, click [Specify Address], and then enter the IP address or host name of the printer.

14. Configure the default printer as necessary, and then click [Next >].

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

15. Click [Finish].

If installation is successful, the icon of the printer connected to the IPP port is added to the [Printers and Faxes] window.



• To stop installation of the selected driver, click [Cancel] before installation is complete.

Using the LPR Port

This describes how to install the PCL or PostScript 3 printer drivers using the LPR port.



- Manage Printers permission is required to install the driver. Log on as an Administrators group member.
- In an IPv6 environment, you cannot use the LPR Port. Use the SmartDeviceMonitor for Client port.

Installing the PCL printer driver

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

4. Click [PCL Printer Driver].

The software license agreement appears in the [License Agreement] dialog box.

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

6. Select a printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

The PCL 6 printer driver is installed in the language specified by your operating system.

7. Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

- 8. Click [Next>].
- Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

- 10. Click [Port], and then click [Add].
- 11. Click [LPR Port], and then click [OK].

If [LPR Port] does not appear, see Windows Help and install it.

- 12. Enter the printer's IP address in the [Name or address of server providing lpd] box.
- 13. Enter "lp" in the [Name of printer or print queue on that server] box, and then click [OK].
 The port is added.
- 14. Check that the port of the selected printer is displayed in [Port].
- 15. Configure the default printer as necessary.
- 16. Click [Continue].

The printer driver installation starts.

17. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete the installation.



- To stop installation of the selected driver, click [Cancel] before 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 "Messages Displayed When Installing the Printer Driver".

Reference

p.51 "Messages Displayed When Installing the Printer Driver"

Installing the PostScript 3 printer driver

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Suomi, Magyar, Cestina, Polski, Portugues, Russian.

4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

Step 5 does not apply for Windows Vista users.

- 5. Click [Next>].
- 6. Click [Local printer] or [Local Printer attached to this computer], and then click [Next >].

 If you are using Windows Vista, you do not need to click [Next >].
- 7. Click [Create a new port:].
- 8. Click [LPR Port], and then click [Next>].

If you are using other than Windows 2000, [Standard TCP/IP Port] in [Create a new port].

- 9. Enter the printer's IP address in the [Name or address of server providing lpd] box.
- 10. Enter "Ip" in the [Name of printer or print queue on that server box], and then click [OK].
- Check that the name of the printer whose driver you want to install is selected, and then click
 [Next >].
- 12. Change the printer name if you want, and then click [Next >].

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

Step 13 does not apply for Windows Vista users.

- 13. Specify whether or not to share the printer, and then click [Next >].
- 14. Specify whether or not to print a test page.

If you are using other than Windows Vista, click [Next >].

15. Click [Finish].

The printer driver installation starts.



To stop installation of the selected software, 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 "Messages Displayed When Installing the Printer Driver".

Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Using the WSD Port

This describes how to install the PCL 5e/5c/6 or PostScript 3 printer drivers using the WSD port.

Mportant (

- The WSD port can be used only under Windows Vista and Windows Server 2008.
- Manage Printers permission is required to install the driver. Log on as an Administrators group member.
- You can connect to the printer only if both the printer and computer are on the same network segment, or "Network discovery" is enabled. For details, see Windows Help.

Installing the PCL printer driver

- 1. Quit all applications currently running.
- 2. On the [Start] menu, click [Network].

The [Network] window appears, and the device search begins automatically.

3. Right-click the printer's icon, and then click [Install].

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

The [Found New Hardware] dialog box appears.

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

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

- Click [Don't search online].
- 6. Click [Browse my computer for driver software (advanced)].
- 7. Insert the provided CD-ROM into the computer's CD-ROM drive.

If the [AutoPlay] dialog box appears, click the [close] button and then proceed to step 8.

8. Click [Browse...], and then specify a location for the printer driver.

If the CD-ROM drive letter is D, the printer driver's source files are stored in "D: \DRIVERS\(PCL6, PCL5E, or PCL5C)\XP_VISTA\MUI or (Language)\DISK1".

9. Click [Next].

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

10. Click [Close].

If installation is successful, the icon of the printer connected to the "WSD" port is added to the [Printers] window



- The port name that follows "WSD" uses random character strings. It cannot be changed freely.
- To stop the installation, click [Cancel] before the installation is complete. When re-installing the WSD Port, right-click the printer's icon in the [Network] window, and then click [Uninstall].

Installing the PostScript 3 printer driver

- 1. Quit all applications currently running.
- 2. Click [Start], and then click [Network].

The [Network] window appears, and the device search begins automatically.

3. Right-click the printer's icon, and then click [Install].

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

The [Found New Hardware] dialog box appears.

4. Click [Locate and install driver software (recommended)].

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

The [Found New Hardware] window appears.

- 5. Click [Don't search online].
- 6. Click [Browse my computer for driver software (advanced)].
- 7. Insert the provided CD-ROM into the computer's CD-ROM drive.

If the [AutoPlay] dialog box appears, click the [close] button and then proceed to step 8.

8. Click [Browse...], and then specify a location for the printer driver.

If the CD-ROM drive letter is D, the printer driver's source files are stored in "D:\DRIVERS\PS\XP_VISTA\(Language)\DISK1".

9. Click [Next].

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

10. Click [Close].

If installation is successful, the icon of the printer connected to the "WSD" port is added to the [Printers] window.



• The port name that follows "WSD" uses random character strings. It cannot be changed freely.

To stop the installation, click [Cancel] before the installation is complete. When re-installing the WSD
Port, right-click the printer's icon in the [Network] window, and then click [Uninstall].

Using the SmartDeviceMonitor for Client Port

This describes how to install the printer driver using the SmartDeviceMonitor for Client port.

To use this function, you must first download SmartDeviceMonitor for Client from the manufacturer's Web site and install it on your computer. Contact your local dealer for information on downloading SmartDeviceMonitor for Client.

Manage Printers permission is required to install the driver. Log on as an Administrators group member.

Installing the PCL printer driver (TCP/IP)

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

- 4. Click [PCL Printer Driver].
- 5. The software license agreement appears in the [License Agreement] dialog box.

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

6. Select the printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

The PCL 6 printer driver is installed in the language specified by your operating system.

- 7. Click [Next >].
- 8. Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

9. Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

- 10. Click [Port], and then click [Add].
- 11. Click [SmartDeviceMonitor], and then click [OK].

12. Click [TCP/IP], and then click [Search].

A list of printers using TCP/IP appears.

13. Select the printer you want to use, and then click [OK].

Only printers that respond to a broadcast from the computer appear. To use a printer not listed here, click [Specify Address], and then enter the IP address or host name of the printer.

- 14. Check that the port of the selected printer is displayed in [Port].
- 15. Set a user code, if necessary.

Up to 8 numeric characters can be entered. No alphabetic characters or symbols can be entered.

- 16. Select the [Default Printer] check box to configure the printer as default.
- 17. Click [Continue].

Installation starts.

18. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].



- To stop installation of the selected software, 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 "Messages Displayed When Installing the Printer Driver".
- A user code can be set after the printer driver installation. For information about user code, see the printer driver Help.

Reference

p.51 "Messages Displayed When Installing the Printer Driver"

Installing the PostScript 3 printer driver (TCP/IP)

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Suomi, Magyar, Cestina, Polski, Portugues, Russian.

4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

Step 5 does not apply for Windows Vista users.

- 5. Click [Next>].
- 6. Click [Local printer] or [Local printer attached to this computer.], and then click [Next >].
 If you are using Windows Vista, you do not need to click [Next >].
- 7. Click [Create a new port:].
- 8. Click [SmartDeviceMonitor], and then click [Next >].
- 9. Click [TCP/IP], and then click [Search].

A list of printers using TCP/IP appears.

10. Select the printer you want to use, and then click [OK].

Only printers that respond to a broadcast from the computer appear. To use a printer not listed here, click [Specify Address], and then enter the IP address or host name of the printer.

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

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

Step 13 does not apply for Windows Vista users.

- 13. Specify whether or not to share the printer, and then click [Next >].
- 14. Specify whether or not to print a test page.

If you are using other than Windows Vista, click [Next >].

15. Click [Finish].

The printer driver installation starts.



- To stop installation of the selected software, 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 "Messages Displayed When Installing the Printer Driver".
- A user code can be set after the printer driver installation. For information about user code, see the printer driver Help.

Reference

p.51 "Messages Displayed When Installing the Printer Driver"

Installing the PCL printer driver (IPP)

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

- 4. Click [PCL Printer Driver].
- 5. The software license agreement appears in the [License Agreement] dialog box.

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

6. Select a printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

The PCL 6 printer driver is installed in the language specified by your operating system.

7. Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

8. Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

- 9. Click [Port], and then click [Add].
- 10. Click [SmartDeviceMonitor], and then click [OK].
- 11. Click [IPP].
- 12. In the [Printer URL] box, enter "http://(printer's IP address/printer)" as the printer's address.

If the server authentication is issued, to enable SSL (a protocol for encrypted communication), enter "https://printer's IP address/printer" (Internet Explorer 5.01, or a higher version must be installed). (example IP address: 192.168.15.16)

http://192.168.15.16/printer

https://192.168.15.16/printer

You can enter "http://printer's IP address/ipp" as the printer's address.

13. Enter a name for identifying the printer in [IPP Port Name]. Use a name different from the one of any existing ports.

If a name is not specified here, the address entered in the [Printer URL] box becomes the IPP port name.

14. Click [Detailed Settings] to make necessary settings.

For details about the settings, see SmartDeviceMonitor for Client Help.

- 15. Click [OK].
- 16. Check that the port of the selected printer is displayed in [Port].
- 17. Set a user code, if necessary.

Up to 8 numeric characters can be entered. No alphabetic characters or symbols can be entered.

- 18. Select the [Default Printer] check box to configure the printer as default.
- 19. Click [Continue].

Installation starts.

20. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete the installation.



- To stop installation of the selected software, 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 "Messages Displayed When Installing the Printer Driver".

Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Installing the PostScript 3 printer driver (IPP)

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Suomi, Magyar, Cestina, Polski, Portugues, Russian.

4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

Step 5 does not apply for Windows Vista users.

5. Click [Next>].

6. Click [Local printer attached to this computer.], and then click [Next >].

If you are using Windows Vista, you do not need to click [Next >].

- 7. Click [Create a new port:].
- 8. Click [SmartDeviceMonitor], and then click [Next >].
- 9. Click [IPP].
- 10. In the [Printer URL] box, enter "http://(printer's IP address or host name)/printer" as the printer's address.

If the server authentication is issued, to enable SSL (a protocol for encrypted communication), enter "https://(printer's IP address or host name)/printer" (Internet Explorer 5.01, or a higher version must be installed).

(example IP address: 192.168.15.16)

http://192.168.15.16/printer

https://192.168.15.16/printer

You can enter "http://printer's IP address or host name/ipp" as the printer's address.

If the address is "192.168.001.010", you must enter it as "192.168.1.10" to connect to the printer.

 Enter a name for identifying the printer in [IPP Port Name]. Use a name different from the one of any existing port.

If a name is not specified here, the address entered in the [Printer URL] box becomes the IPP port

12. Click [Detailed Settings] to make necessary settings.

If you are using Windows 2000, click [OK] after making necessary settings.

For information about the settings, see SmartDeviceMonitor for Client Help.

- 13. Click [OK].
- Check that the name of the printer driver you want to install is selected, and then click [Next
].
- 15. Change the name of the printer if you want, and then click [Next >].

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

Step 17 does not apply for Windows Vista users.

- 16. Specify whether or not to share the printer, and then click [Next >].
- 17. Specify whether or not to print a test page.

If you are using other than Windows Vista, click [Next >].

18. Click [Finish].

The printer driver installation starts.



- To stop installation of the selected software, 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 "Messages Displayed When Installing the Printer Driver".

Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Changing the port settings for SmartDeviceMonitor for Client

Follow the procedure below to change the SmartDeviceMonitor for Client settings, such as TCP/IP timeout, recovery/parallel printing, and printer groups.

Windows 2000:

- 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. On the [File] menu, click [Properties].
- 3. On the [Ports] tab, click [Configure Port].

The [Configuration] dialog box appears.

Windows XP, Windows Server 2003/2003 R2:

- 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. On the [File] menu, click [Properties].
- 3. Click the [Ports] tab, and then click [Configure Port].

The [Port Configuration] dialog box appears.

Windows Vista, Windows Server 2008:

- 1. On the [Start] menu, click [Control Panel].
 - The [Control Panel] window appears.
- 2. Click [Printer].
 - The [Printers] window appears.
- 3. Right-click the icon of the printer you want to use, and then click [Properties].
- 4. Click the [Ports] tab, and then click [Configure Port].

The [Port Configuration:] dialog box appears.



- User, proxy, and timeout settings can be configured for IPP.
- If no settings on the [Recovery/Parallel Printing] tab are available, follow the procedure below.
 - 1. Click [Cancel] to close the [Port Configuration:] dialog box.
 - 2. Start SmartDeviceMonitor for Client, and then right-click the SmartDeviceMonitor for Client icon on the task tray.
 - 3. Point to [Properties], and then click [Extended Features Settings].
 - 4. Select the Set [Recovery/Parallel Printing] for each port check box.
 - 5. Click [OK] to close the [Extended Features] dialog box.
- For details about these settings, see "Using SmartDeviceMonitor for Client port", or SmartDeviceMonitor for Client Help.

Reference

• p.20 "Using the SmartDeviceMonitor for Client Port"

Using as the Windows Network Printer

This describes how to install the PCL or PostScript 3 printer driver when using the printer as the Windows network printer.

To use the print server, install the printer driver by selecting "Network printer server", and then select the Windows 2000/XP/Vista, or Windows Server 2003/2003 R2/2008 shared printer.

This section assumes that the client has already been configured to communicate with a Windows 2000/XP/Vista, or Windows Server 2003/2003 R2/2008 print server. Do not begin the following procedure before the client is set up and configured correctly.

Mportant !

- Manage Printers permission is required to install the drivers. Log on as an Administrators group member.
- If you print with a print server connected to the printer using the SmartDeviceMonitor port, Recovery
 Printing and Parallel Printing cannot be used from the client.
- If you print under Windows XP/Vista or Windows Server 2003/2003 R2/2008 print server, notification functions of SmartDeviceMonitor may not be used with the client.
- If your operating system is Windows XP Pro x64, Windows Vista x64, or Windows Server 2003 x64/2003 R2 x64/2008 x64, you must download the printer driver from the manufacturer's Web site. Select this printer and the operating system you are using, and then download it.

Installing the PCL printer driver

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

- 4. Click [PCL Printer Driver].
- The software license agreement appears in the [License Agreement] dialog box.

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

6. Select the printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

The PCL 6 printer driver is installed in the language specified by your operating system.

7. Click [Next>].

8. Select the [Printer Name] check box to select the printer models you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

9. Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

- 10. Click [Port], and then click [Add].
- 11. Click [Network Printer], and then click [OK].
- Double-click the computer name you want to use as the print server in the [Browse for Printer] window.
- 13. Select the printer you want to use, and then click [OK].
- 14. Check that the port of the selected printer is displayed in [Port].
- 15. Configure the user code as necessary.

For details about user code, see the printer driver Help.

- 16. Select the [Default Printer] check box to configure the printer as default.
- 17. Click [Continue].

The printer driver installation starts.

18. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.



- A user code can be set after the printer driver installation. For information about user code, see the
 printer driver Help.
- To stop installation of the selected software, 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 "Messages Displayed When Installing the Printer Driver".

Reference

p.51 "Messages Displayed When Installing the Printer Driver"

Installing the PostScript 3 printer driver

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

2

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Suomi, Magyar, Cestina, Polski, Portugues, Russian.

4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

Step 5 does not apply for Windows Vista users.

- 5. Click [Next>].
- 6. Click [Network printer] or [A network printer, or a printer attached to another computer].
 If you are using other than Windows Vista, click [Next >].
- 7. Select [Browse for a printer], and then click [Next >].

If you are using Windows 2000, select the location method from the [Locate Your Printer] screen before clicking [Next >].

- 8. Double-click the computer name you want to use as the print server in the [Shared printers] window.
- 9. Select the printer you want to use, and then click [Next >].
- 10. The printer driver installation starts.
- 11. Click [Next>].

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

12. Click [Finish].

Restart the computer to complete installation.



- A user code can be set after the printer driver installation. For information about user code, see the
 printer driver Help.
- To stop installation of the selected software, 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 "Messages Displayed When Installing the Printer Driver".

■ Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

2

Using as the NetWare Print Server/Remote Printer

This describes how to set up the Windows computer used as the NetWare client.

- Under Windows 2000/XP, and Windows Server 2003/2003 R2, Manage Printers permission is required to install the drivers. Log on as an Administrators group member.
- IPX/SPX (NetWare) cannot be used under Windows Vista and Windows Server 2008.
- In an IPv6 environment, NetWare servers cannot be used.

The following explanation assumes NetWare Client is installed on the client computer and the NetWare server environment is correctly set up. Install all necessary client applications before following this procedure.

Set up the printer driver while logging on to the NetWare file server.

The following values are used in the example:

- NetWare version: 4.1
- File server name: CAREE
- Queue name: R-QUEUE
- 1. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. In that case, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

- 3. Click [PCL Printer Driver].
- 4. The software license agreement appears in the [License Agreement] dialog box.

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

5. Select the printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

The PCL 6 printer driver is installed in the language specified by your operating system.

- 6. Click [Next>].
- Select the [Printer Name] check box to select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

8. Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

- 9. Click [Port], and then click [Add].
- 10. Click [Network Printer], and then click [OK].
- 11. Double-click the name of the NetWare file server on the network tree.

The created queue is displayed.

- 12. Select the print queue, and then click [OK].
- 13. Check that the port of the selected printer is displayed in [Port].
- 14. Click [Continue].

The printer driver installation starts.

- 15. Click [Finish] in the [Select Program] dialog box.
- 16. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.

17. After restarting the computer, open the printer properties from the [Printers and Faxes] window.

Under Windows 2000 or Windows Server 2003/2003 R2, launch the [Printers] window, and then open the printer properties.

18. Click the [NetWare setting] tab.

Under Windows 2000 or Windows Server 2003/2003 R2, on the [Printer Settings] tab, clear the [Form Feed] and [Enable Banner] check boxes.

Do not select these check boxes since they are automatically selected by the printer driver. If you select the check boxes, the printer may not print correctly.

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



- To stop installation of the selected software, click [Cancel] before the installation is complete.
- The protocol is set to inactive as default. Enable it using SmartDeviceMonitor or Telnet.

When using the PostScript 3 Printer Driver



• In an IPv6 environment, NetWare servers cannot be used.

Follow the procedure below to set up the PostScript 3 printer driver.

- 1. In the [Printers] or [Printers and Faxes] window, open the printer properties.
- 2. Click the [PostScript] tab.

When using Windows 2000/XP/Vista, and Windows Server 2003/2003 R2/2008, click the [Device Settings] tab, and then proceed to step to clear the check box.

- 3. Click [Advanced].
- Clear the [Send CTRL+D before job] and [Send CTRL+D after job] check boxes, and then click [OK].
- 5. Click [OK] to close the printer properties dialog box.

Form Feed

Do not use NetWare to configure form feed. Form feed is controlled by the printer driver on Windows. If NetWare form feed is configured, the printer may not print properly.

Follow the procedure below to disable form feed according to the operating system used:

• Under Windows 2000/XP/Vista, or Windows Server 2003/2003 R2/2008, clear the [Form feed] check box on the [NetWare Settings] tab in the printer properties dialog box.

Banner Page

Do not use NetWare to configure a banner page.

Follow the procedure below to disable banner pages according to the operating system used:

• Under Windows 2000/XP/Vista, or Windows Server 2003/2003 R2/2008, clear the [Enable banner] check box on the [NetWare Settings] tab in the printer properties dialog box.

Printing after Resetting the Printer

Printer to print server connection requires 30 - 40 seconds to resume after the printer is reset. During this period, jobs may be accepted (depending on NetWare specifications) but not printed.

To print after resetting the printer as the remote printer, check on the print server that the remote printer is disconnected, or wait for two minutes before trying to print.

3. Local Connection

This chapter explains how to install the printer driver under Windows for through a local connected printer.

Installing the Printer Driver Using USB

This section explains how to install printer drivers using USB.

Before installing, check that only the operating system is running on the computer and no print jobs are in progress.

Windows 2000 - USB

Important

 Manage Printers permission is required to install the drivers. Log on as an Administrators group member.

If the printer driver has already been installed, and plug and play is enabled, 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 with this printer.

- 1. Check that the power of the printer is off.
- 2. Connect the printer to your computer with a USB cable.

Connect the USB cable firmly.

3. Turn on the power of the printer.

Found New Hardware Wizard starts, and USB Printing Support is installed automatically.

- 4. In the Found New Hardware Wizard window, 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 in the CD-ROM drive.

If Auto Run starts, click [Cancel] and then [Exit].

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

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

PCL 5e

D:\DRIVERS\PCL5E\XP_VISTA\(language)\disk1

PCL 5c

D:\DRIVERS\PCL5C\XP_VISTA\(language)\disk1

PCL 6

D:\DRIVERS\PCL6\XP_VISTA\MUI\disk1

• PostScript 3

D:\DRIVERS\PS\XP_VISTA\(language)\disk1

The PCL 6 printer driver is installed in the language specified by your operating system.

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

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



- 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.

Windows XP, Windows Server 2003/2003 R2 - USB

Important

 Installing a printer driver requires Administrators permission. Log on using an account that has Administrators permission.

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 that the power of the printer is off.
- 2. Connect the printer to your computer with a USB cable.

Connect the USB cable firmly.

3. Turn on the power of the printer.

Found New Hardware Wizard starts, and USB Printing Support is installed automatically.

- 4. Click [No, not this time], and then click [Next >].
- 5. In the Found New Hardware Wizard display, click [Install from a list or specific location [Advanced]], and then click [Next >].
- 6. Insert the CD-ROM into the CD-ROM drive.

If Auto Run starts, click [Cancel] and then [Exit].

- 7. Select the [Search removable media (floppy, CD-ROM...)] check box under [Search for the best driver in these locations], and then click [Next >].
- 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 printer driver are stored in the following locations:

PCL 5e

D:\DRIVERS\PCL5E\XP_VISTA\(language)\disk1

PCL 5c

D:\DRIVERS\PCL5C\XP_VISTA\(language)\disk1

PCL 6

D:\DRIVERS\PCL6\XP_VISTA\MUI\disk1

• PostScript 3

D:\DRIVERS\PS\XP_VISTA\(language)\disk1

The PCL 6 printer driver is installed in the language specified by your operating system.

- 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.



- 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.

Windows Vista, Windows Server 2008 - USB



• Installing a printer driver requires Administrators permission. Log on using an account that has Administrators permission.

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.

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

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 that the power of the printer is off.

2. Connect the printer to your computer with a USB cable.

Connect the USB cable firmly.

3. Turn on the power of the printer.

Found New Hardware Wizard starts, and USB Printing Support is installed automatically.

- 4. In the Found New Hardware Wizard display, click [Search for a suitable driver for my device [recommended]], and then click [Next >].
- 5. Insert the CD-ROM into the CD-ROM drive.

If Auto Run starts, click [Cancel] and then [Exit].

6. Select the [Include this location in the search] check box under [Search for the best driver in these location], and then click [Browse] to select the printer driver location.

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

PCL 5e

D:\DRIVERS\PCL5E\XP_VISTA\(language)\disk1

PCL 5c

D:\DRIVERS\PCL5C\XP_VISTA\(language)\disk1

PCL 6

D:\DRIVERS\PCL6\XP_VISTA\MUI\disk1

PostScript 3

D:\DRIVERS\PS\XP_VISTA\(language)\disk1

The PCL 6 printer driver is installed in the language specified by your operating system.

- 7. Check the printer driver location, and then click [Next >].
- 8. Click [Continue].
- 9. Click [Finish].

If the installation is successful, the icon of the printer connected to the "USB001" port is added to the [Printers and Faxes] window.



- 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.

Troubleshooting USB

Problem	Solutions
The printer is not recognized automatically.	Turn off the power of this printer, and then reconnect the USB cable. Make sure the cable is securely connected to the USB ports, and then turn on the power 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 or Windows Server 2003/2003 R2/2008, an erroneous device is displayed under [USB Controller] in the [Device Manager] dialog box.

Installing the Printer Driver Using Parallel Cable

This describes how to install the PCL 5e/5c/6 or PostScript 3 printer driver when using a parallel port.

To use a printer connected using a parallel interface, click [LPT1] when installing the printer driver.



 Manage Printers permission is required to install the drivers. Log on as an Administrators group member.

Installing the PCL Printer Driver

This describes how to install the PCL 5e/5c/6 printer driver when using a parallel port.

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

- 4. Click [PCL Printer Driver].
- 5. The software license agreement appears in the [License Agreement] dialog box.

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

6. Select the printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

The PCL 6 printer driver is installed in the language specified by your operating system.

- 7. Click [Next>].
- 8. Select the [Printer Name] check box to select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

9. Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

- 10. Check that [LPT1:] is shown in [Port].
- 11. Select the [Default Printer] check box to configure the printer as default.
- 12. Click [Finish].

The printer driver installation starts.

13. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.

U Note

- To stop installation of the selected software, click [Cancel] before installation is complete.
- A user code can be set after the printer driver installation. For information about user code, see the
 printer driver Help.
- 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 "Messages Displayed When Installing the Printer Driver".

Reference

p.51 "Messages Displayed When Installing the Printer Driver"

Installing the PostScript 3 Printer Driver

This describes how to install the PostScript 3 printer driver when using a parallel port.

Windows 2000

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

- 3. Select an interface language, and then click [OK].
- 4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

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

A dialog box for selecting the printer manufacturer and model name appears.

- 7. Select [LPT1] at the [Printer Port] dialog box, and then click [Next>].
- 8. Select whether or not to share the printer, and then click [Next >].
- 9. Select the name of the printer whose driver you want to install, and then click [Next >].
- 10. Select whether or not you want to print a test page, and then click [Finish].

The printer driver installation starts.

11. Restart the computer to complete installation if necessary.



- To stop installation of the selected software, click [Cancel] before installation is complete.
- A user code can be set after the printer driver installation. For information about user code, see the
 printer driver Help.
- 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 "Messages Displayed When Installing the Printer Driver".

Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Windows XP, Windows Server 2003/2003 R2

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

- 3. Select an interface language, and then click [OK].
- 4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

- 5. Click [Next>].
- 6. Click [Local printer attached to this computer], and then click [Next >].
- 7. Select the port you want to use, and then click [Next >].

A dialog box for selecting the printer manufacturer and model name appears.

- 8. Select the name of the printer whose driver you want to install, and then click [Next >].
- 9. Click [Close] to close the [Printer Port] dialog box.
- 10. Click [Next>].
- 11. Change the printer name if you want, and then click [Next >].
- 12. Select whether or not to share the printer, and then click [Next >].
- 13. Specify whether or not to print a test page, and then click [Finish].

The printer driver installation starts.

14. Restart the computer to complete installation.



- To stop installation of the selected software, click [Cancel] before installation is complete.
- A user code can be set after the printer driver installation. For information about user code, see the
 printer driver Help.
- 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 "Messages Displayed When Installing the Printer Driver".

Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Windows Vista, Windows Server 2008

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory. If the [User Account Control] dialog box appears, click [Continue] to allow the auto play program to run.

- Select an interface language, and then click [OK].
- 4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

- 5. Click [Add a local printer].
- 6. Select the port you want to use, and then click [Next >].

A dialog box for selecting the printer manufacturer and model name appears.

- 7. Select the name of the printer whose driver you want to install, and then click [Next >].
- 8. Change the printer name if you want, and then click [Next >].

Select the check box to configure the printer as default.

- 9. Specify whether or not to share the printer, and then click [Next >].
- 10. Specify whether or not to print a test page, and then click [Finish].

The printer driver installation starts.

Restart the computer to complete installation.



- To stop installation of the selected software, click [Cancel] before installation is complete.
- A user code can be set after the printer driver installation. For information about user code, see the
 printer driver Help.

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 "Messages Displayed When Installing the Printer Driver".

■ Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

4. When Using the Printer under Mac OS

This chapter explains how to install and configure the printer drivers for use on the Mac OS X operating system.

Installing the Printer

This section explains how to configure a Mac OS X to use EtherTalk, USB, and TCP/IP.

Follow the procedure below to configure Mac OS X 10.3.8. If you are not using Mac OS X 10.3.8, see the manual of the Mac OS X you are using for details.



Mac OS X 10.2 or higher is required.



• The PPD files are stored in the following folder on the CD-ROM.

Mac OS X: MacOSX PPD Installer

If you want to use AppleTalk, use the control panel or Web Image Monitor to enable AppleTalk. (The
default is Inactive.)

Installing the PPD Files

Follow the procedure below to install a PPD file to print from Mac OS X.

- You need an administrator name and a password (phrase). For details, consult your administrator.
- 1. Insert the CD-ROM into the CD-ROM drive.
- 2. Double-click the CD-ROM drive icon.
- 3. Double-click the [Mac OS X] folder.
- 4. Double-click the [MacOSX PPD Installer] folder.
- Double-click the [MAC OSX 10.1 or later] or [MAC OSX 10.5 or later] folder, depending on your operating system.
- 6. Double-click the [MacOSX PPD Installer] folder.
- 7. Double-click the package file icon.
- 8. Follow the instructions on the screen.

Setting Up the PPD File

1. Start Printer Setup Utility.

Under Mac OS X 10.5 or 10.6, start System Preferences and click [Print & FAX].

2. Click [Add] or [+] button.

Mac OS X 10.5 or 10.6

Click [Default]. If the printer name is not displayed, select the icon that corresponds to your network environment (AppleTalk, etc.).

If several AppleTalk zones exist on the network, select the zone the printer belongs to.

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 [AppleTalk] on the first pop-up menu.

If the zone is set, select the zone from the second pop-up menu.

3. Select the printer, and then select its manufacturer from the [Printer Model:] pop-up menu.

Under Mac OS X 10.4, select the printer you are using from the [Print Using] popup menu.

Under Mac OS X 10.5 or 10.6, select the printer you are using from the [Printer Name] list.

- 4. Select the PPD file for the model you are using, and then click [Add].
- 5. Quit Printer Setup Utility or System Preferences.

Setting Up Options for Mac OS X

This section explains how to configure the printer driver.

- 1. Start System Preferences.
- 2. Click [Utilities], and then double-click [Print Center] or [Printer Setup Utility].

Mac OS X 10.5 or 10.6

Click [Print& Fax].

The printer list dialog box appears.

3. Select the printer you are using, and then click [Show Info].

Mac OS X 10.5 or 10.6

Select the printer you are using, and then click [Options & Supplies...].

4. Select [Installable Options] in the drop-down menu, and then configure settings as needed.

Mac OS X 10.5 or 10.6

Click [Driver], and then configure settings as needed.

5. Click [Apply Changes].

Mac OS X 10.5 or 10.6

Click [OK].



• 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.

Using USB Interface

Follow the procedure below to setup USB connection.



- USB2.0 can be used only with Mac OS X 10.3.3 or higher.
- 1. Start Printer Setup Utility.

Under Mac OS X 10.5 or 10.6, start System Preferences and click [Print & FAX].

2. Click [Add] or [+] button.

Mac OS X 10.5 or 10.6

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.

3. Select the printer, and then select its manufacturer from the [Printer Model:] pop-up menu.

Under Mac OS X 10.4, select the printer you are using from the [Print Using] pop-up menu.

A list of printer types appears.

Under Mac OS X 10.5 or 10.6, select the printer you are using from the [Printer Name] list, and [kind] of USB.

- 4. Select the connected printer from the list of printer models, and then click [Add].
- 5. Quit Printer Setup Utility or System Preferences.



 When printing with a USB connection to a Macintosh computer, printer language does not change automatically. Use the control panel on this printer to change printer language to [Auto Detect] or [PS] before printing.

Using Bonjour

Follow the procedure below to print using Bonjour under Mac OS X 10.2.3 or higher. Ethernet, wireless LAN connections can also be used.

1. Start [Printer Setup Utility].

Under Mac OS X 10.5 or 10.6, start System Preferences and click [Print & FAX].

2. Click [Add] or [+] button.

Mac OS X 10.5 or 10.6

Click [Default].

If several AppleTalk zones exist on the network, select the zone the printer belongs to.

Mac OS X 10.4

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

Mac OS X 10.3 or lower

Click [Rendezvous] on the pop-up menu.

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

Under Mac OS X 10.4, Installable Options window appears. Select the option you want to set up, and then select an appropriate setting for it, and then [Continue].

Under Mac OS X 10.5 or 10.6, select the printer you are using from the [Printer Name] list, and [kind] of bonjour.

4. Quit Printer Setup Utility or System Preferences.



 When printing with a Bonjour connection to a Macintosh computer, printer language does not change automatically. Use the control panel on this printer to change printer language to [Auto Detect] or [PS] before printing.

Changing to EtherTalk

Follow the procedure below to configure a Mac OS X to use EtherTalk.

Important

- You need an administrator name and a password (phrase). For details, consult your administrator.
- 1. Open [System Preference], and then click the Network icon.
- Click [Built-in Ethernet] or [Ethernet] in the list box.

Under Mac OS X 10.5 or 10.6, Click [Advanced...].

3. Click the [AppleTalk] tab.

- 4. Select the [Make AppleTalk Active] check box.
- 5. To change Apple Talk zones, select a name from the [AppleTalk Zone:] pop-up menu.
- 6. When the settings are made, click [Apply Now].

Mac OS X 10.5

Click [OK], and then click [Apply].



• For information about installing applications required for EtherTalk, see the Mac OS manuals.

5. Appendix

Messages Displayed When Installing the Printer Driver

This section describes what to do if a message appears when installing the printer driver.

Message number 58 or 34 indicates that the printer driver cannot be installed using Auto Run. Install the printer driver using [Add Printer] or [Install Printer].

Message number 58 appears if there is a newer version of the printer driver already installed.

Windows 2000

This section describes the procedure under 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 Add Printer Wizard.

If the printer driver is on the CD-ROM, the location of the driver is \DRIVERS\(PCL6, PCL5C, PCL5E, or PS)\XP_VISTA\(language) or MUI\DISK1. If the installer starts, click [Cancel] to quit.

4. Specify a port.

UNote

 Available ports vary according to your Windows operating system or the type of interface. For details, see "Network Connection" or "Local Connection".

Reference

- p.7 "Network Connection"
- p.35 "Local Connection"

Windows XP Professional or Windows Server 2003/2003 R2

This section describes the procedure under Windows XP Professional or Windows Server 2003/2003 R2.

- 1. On the [Start] menu, click [Printers and Faxes].
- 2. Click [Add a printer].

3. Follow the instructions in Add Printer Wizard.

If the printer driver is on the CD-ROM, the location of the driver is \DRIVERS\(PCL6, PCL5C, PCL5E, or PS)\XP_VISTA\(language) or MUI\DISK1. If the installer starts, click [Cancel] to quit.

4. Specify a port.



 Available ports vary according to your Windows operating system or the type of interface. For details, see "Network Connection" or "Local Connection".

■ Reference

- p.7 "Network Connection"
- p.35 "Local Connection"

Windows XP Home Edition

This section describes the procedure under Windows XP Home Edition.

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

If the printer driver is on the CD-ROM, the location of the driver is \DRIVERS\(PCL6, PCL5C, PCL5E, or PS)\XP_VISTA\(language) or MUI\DISK1. If the installer starts, click [Cancel] to quit.

6. Specify a port.



Available ports vary according to your Windows operating system or the type of interface. For details,
 see "Network Connection" or "Local Connection".

Reference

- p.7 "Network Connection"
- p.35 "Local Connection"

Windows Vista, Windows Server 2008

This section describes the procedure under Windows Vista and Windows Server 2008.

- 1. On the [Start] menu, click [Control Panel].
- 2. Click [Hardware and Sound].

- 3. Click [Printers].
- 4. Click [Add a printer].
- 5. Follow the instructions in Add Printer Wizard.

If the printer driver is on the CD-ROM, the location of the driver is \DRIVERS\(PCL6, PCL5C, PCL5E, or PS)\XP_VISTA\(language) or MUI\DISK1. If the installer starts, click [Cancel] to quit.

6. Specify a port.

U Note

 Available ports vary according to your Windows operating system or the type of interface. For details, see "Network Connection" or "Local Connection".

■ Reference

- p.7 "Network Connection"
- p.35 "Local Connection"

Making Option Settings for the Printer

When bidirectional communication works correctly, your computer obtains information about option, paper size and paper feed direction settings from the printer automatically. Bidirectional communication also allows you to monitor printer status.

When bidirectional communication is disabled, you have to set up option, paper size and paper feed direction settings on your computer manually.

Conditions for Bidirectional Communication

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

When connected with parallel cables

- The computer must support bidirectional communication.
- The printer must support bidirectional communication.
- The interface cable must support bidirectional communication.
- The printer must be connected to the computer using the standard parallel cables and parallel connectors.
- Under Windows 2000, [Enable bidirectional support] must be selected, and [Enable printer pooling] must not be selected on the [Ports] tab with the printer driver.

When connected with the network

- The printer must support bidirectional communication.
- The Standard TCP/IP port must be used.
- [Enable bidirectional support] must be selected, and [Enable printer pooling] must not be selected on the [Ports] tab with the printer driver.
- In addition to the above, one of the following conditions must also be met:
 - The TCP/IP protocol must be used.
 - IPP port name must include the IP address when using the IPP protocol.

When connected with USB

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



- The PCL 6 printer driver supports bidirectional communication and updates the printer status automatically.
- The PCL 5e/5c printer driver supports bidirectional communication. You can update the printer status manually.

5

If Bidirectional Communication Is Disabled

This section describes how to set up option, paper size and paper feed direction settings on your computer manually.



- Manage Printers permission is required to change the printer properties in the [Printers] folder. Log
 on as an Administrators group member.
- 1. On the [Start] menu, click [Printers and Faxes].

When using Windows 2000, point to [Settings] on the [Start] menu, and then click [Printers]. The [Printers] window appears.

When using Windows Vista or Windows Server 2008, click [Control Panel] on the [start] menu, and then click [Printer]. The [Printers] window appears.

- 2. Click the icon of the printer you want to use.
- 3. On the [File] menu, click [Properties].

When using Windows Vista or Windows Server 2008, right-click the icon of the printer you want to use, and then click the [Properties].

4. Click the [Accessories] tab.

If options in the [Accessories] tab are disabled, bidirectional connection is enabled. In this case, no change is necessary for option settings.

- 5. Select options installed from the [Options] area, and then make the necessary settings.
- 6. In [Input Tray:] select which trays to use, and then, in [Paper Size:] select the size of the paper that you want to load in each tray.

Click [Update] in the [Input Tray Settings] area to apply the setting for each tray.

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

Installing Font Manager

- Manage Printers permission is required to install Font Manager. Log on as an Administrators group member.
- 1. Quit all applications currently running.
- Insert the CD-ROM into the CD-ROM drive.The installer starts.
- 3. Click [Font Manager].
- 4. Follow the instructions on the display.

5

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 "XP_VISTA" folder inside the "PS" folder is for Windows 2000/XP, Windows Server 2003/2003 R2. Use the folder that is appropriate for the operating system you are currently using.

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.



- 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.
 - On the [File] menu, click [Print].
 The [Print Document] dialog box appears.
 - 2. Make the necessary settings in the [Features] box.

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Microsoft® Windows® 2000 Server

Microsoft® Windows® 2000 Advanced Server

Microsoft® Windows® 2000 Datacenter Server

*The product names of Windows XP are as follows:

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Microsoft® Windows® XP Home Edition

Microsoft® Windows® XP Media Center Edition

Microsoft® Windows® XP Tablet PC Edition

Microsoft® Windows® XP Professional x 64 Edition

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Microsoft® Windows Vista® Business

Microsoft® Windows Vista® Home Premium

Microsoft® Windows Vista® Home Basic

Microsoft® Windows Vista® Enterprise

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Microsoft® Windows Server® 2008 Foundation

Microsoft® Windows Server® 2008 Standard

Microsoft® Windows Server® 2008 Enterprise

Microsoft® Windows Server® 2008 Datacenter

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