

# Operating Instructions Driver Installation Guide

For safe and correct use, be sure to read the Safety Information in "Read This First" before using the machine.

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## 1. Introduction

This chapter explains the software included on this CD-ROM and a brief overview for the connection method.

## **Before Installation**

#### 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.

#### []

Indicates the names of keys on the machine's display or control panels.

#### Notes on this manual

- This manual covers several different models, and therefore contains functions and settings that may
  not be available for your model.
- Functions and supported operating systems may differ from those of your model.
- Installing procedures on Windows 7 is shown as an example except where indicated.
- The installation procedure is the same for the PCL 5c and PCL 5e printer drivers. In this manual, the PCL 5c and PCL 5e printer drivers are referred to as the "PCL 5c/5e printer driver".

#### Notes When Installing the Printer Driver

#### 🔁 Important

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

#### Note

- Quit all applications except for this manual.
- If the [User Account Control] dialog box appears during the driver installation procedure, click [Yes] or [Continue].
- If the [Windows Security] dialog box appears during the driver installation procedure, click [Install this driver software anyway].
- Auto Run might not work automatically with certain OS settings. If this is the case, double-click "SETUP.EXE", located on the CD-ROM root directory, or click [Run SETUP.EXE] in the [AutoPlay] dialog box.
- If you want to cancel Auto Run, hold down the left [Shift] key while inserting the CD-ROM. Keep the [Shift] key held down until the computer stops reading the CD-ROM.
- A message appears if there is a newer version of the printer driver already installed.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].
- For details about driver installation problems, see p.31 "Messages Displayed When Installing the Printer Driver".

### **Start Installer**

To connect this printer to a client computer and print documents, the software included on the provided CD-ROM must be installed on the client computer.

The installer starts automatically when you insert the provided CD-ROM into the CD-ROM drive of a client computer running under Windows or Windows Server. You can then install the printer driver included on the CD-ROM.

The contents (display item) of the installer are as follows:

#### Quick Install

Install the PCL 6 printer driver, and configure the Standard TCP/IP port to establish a connection with a network printer.

For details, see p.11 "Quick Install".

#### **PCL Printer Drivers**

Installs the PCL 6 and/or PCL 5c/5e printer drivers.

For details about installing the driver, see p.13 "Installing the Printer Driver for a Network Connection" or p.23 "Installing the Printer Driver for a Local Connection".

#### **PostScript 3 Printer Driver**

Install the PostScript 3 printer driver.

For details about installing the driver, see p.13 "Installing the Printer Driver for a Network Connection" or p.23 "Installing the Printer Driver for a Local Connection".

#### Font Manager

This software enables you to use screen fonts.

For details about installing the software, see p.7 "Font Manager".

#### Select Language

Change the interface language.

#### Browse This CD-ROM

Browse the contents of this CD-ROM.

#### Install/Print Manuals

Allows you to install or print manuals.

#### Exit

Quit Installer.

### Software and Utilities Included on the CD-ROM

This section explains the software and utilities CD-ROM provided with this printer.

Note

- For the latest information on the corresponding operating system, see "Readme.txt" file in the DRIVERS folder.
- For the latest information on Windows terminal service, Citrix Presentation Server, and Citrix Xen App, see the manufacturer's Web site.

#### **Printer Drivers**

Printing requires installation of a printer driver for your operating system. The following drivers are included on the CD-ROM.

	Printer Drivers		
Operating System	PCL 5c/5e	PCL 6	PostScript 3
Windows XP * 1	ОК	ОК	ОК
Windows Vista <sup>*2</sup>	ОК	ОК	ОК
Windows 7 <sup>*3</sup>	ОК	ОК	ОК
Windows Server 2003 *4	ОК	ОК	ОК
Windows Server 2008 *5	ОК	ОК	ОК
Mac OS X <sup>*6</sup>	—	—	OK

- \* Any printer drivers support both 32-bit and 64-bit Windows.
- \*1 Microsoft Windows XP Professional Edition/Microsoft Windows XP Home Edition
- \*2 Microsoft Windows Vista Ultimate/Microsoft Windows Vista Enterprise/Microsoft Windows Vista Business/ Microsoft Windows Vista Home Premium/Microsoft Windows Vista Home Basic
- \*3 Microsoft Windows 7 Home Premium/Microsoft Windows 7 Professional/Microsoft Windows 7 Ultimate/ Microsoft Windows 7 Enterprise
- \*4 Microsoft Windows Server 2003 Standard Edition/Microsoft Windows Server 2003 Enterprise Edition/ Microsoft Windows Server 2003 R2 Standard Edition/Microsoft Windows Server 2003 R2 Enterprise Edition
- \*5 Microsoft Windows Server 2008 Standard/Microsoft Windows Server 2008 Enterprise/Microsoft Windows Server 2008 R2 Standard/Microsoft Windows Server 2008 R2 Enterprise
- \*6 Mac OS X 10.5 or later.

#### PCL printer drivers

Two kinds of PCL printer driver (PCL 5c/5e and PCL 6) are included. These drivers allow your computer to communicate with this printer via a printer language.

#### Adobe<sup>®</sup> PostScript<sup>®</sup> printer driver

Adobe PostScript printer driver allows the computer to communicate with the printer using a printer language.

#### **PPD** files

PPD files allow the printer driver to enable specific printer functions using PostScript 3 printer language.

#### Note

- Some applications may require installation of the PCL 5c/5e printer driver. In this case, you can
  install PCL 5c/5e without having to install PCL 6.
- For details about installing the driver, see p.13 "Installing the Printer Driver for a Network Connection" or p.23 "Installing the Printer Driver for a Local Connection".

#### Supported languages

The languages supported in each printer driver are as follow:

English, German, French, Italian, Spanish, Dutch, Swedish, Norwegian, Danish, Finnish, Hungarian, Czech, Polish, Portuguese, Russian, Catalan, Turkish, Brazilian Portuguese, Greek.

#### **Vote**

- The PCL 5c/5e printer driver does not support Brazilian Portuguese and Greek. Use the English version of the driver.
- The PCL 6 and PostScript 3 printer drivers use the same interface language as the one specified by your operating system. However, the PostScript 3 printer driver will be displayed in English if your operating system uses one of the following languages: Finnish, Hungarian, Czech, Polish, Portuguese, Russian, Catalan, Turkish, Brazilian Portuguese, Greek.

#### **Font Manager**

For installing new screen fonts, or organizing and managing fonts already in the system.

#### File path

The software is included in the following folder on the CD-ROM:

#### \FONTMAN\DISK1

#### Installation

Click [Font Manager] on the installer screen, and then follow the instructions.

### **Confirming the Connection Method**

This printer supports network and local connection.

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 the Windows printing port

Network connections can be established through Ethernet and Wireless LAN.

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

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

\* WSD port does not support Windows XP.

Note

• For details about how to install the printer driver for each type of port, see p.13 "Installing the Printer Driver for the Selected Port".

#### Using as a network printer

This printer can be used as a remote printer using the Windows or NetWare print server function.

Windows servers supported in each printer driver are as follow:

- Windows XP print server
- Windows Vista print server
- Windows 7 print server
- Windows Server 2003/2003 R2 print server

- Windows Server 2008/2008 R2 print server
- NetWare print server (using IPv4 only) \*
- NetWare file server (using IPv4 only) \*
- \* A NetWare server supports only Windows XP and Windows Server 2003/2003 R2 client computer.

#### Note

• For details about how to install the printer driver to print server, see p.20 "Using as a Network Printer".

#### **Local Connection**

Local connections can be established via USB and parallel connections.

#### Note

• For details about how to install the printer driver for each method of connections, see p.23 "Installing the Printer Driver for a Local Connection".

1. Introduction

## 2. Quick Install

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

## **About Quick Install**

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

- 1. Click [Quick Install] on the installer screen.
- 2. The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next].
- 3. Click [Next].
- 4. Select the printer model you want to use in the [Select Printer] dialog box.
- 5. Click [Install].
- 6. Configure the user code, default printer, and shared printer as necessary.
- 7. Click [Continue].

Follow the instructions on the screen.

2. Quick Install

# 3. Installing the Printer Driver for a Network Connection

This chapter describes the installation procedure of the printer drivers for network connection under Windows operating system.

## Installing the Printer Driver for the Selected Port

This section describes the driver installation procedure for each printer port. See the following installation procedure for the printer port you use.

Port Type	Reference	
Standard TCP/IP port	p.13 "Using the Standard TCP/IP port"	
IPP port	p.14 "Using the IPP port"	
LPR port	p.15 "Using the LPR port"	
WSD port	p.15 "Using the WSD port"	
SmartDeviceMonitor for Client port	p.17 "Using the SmartDeviceMonitor for Client port"	

#### Using the Standard TCP/IP port

- 1. Click [PCL Printer Drivers] or [PostScript 3 Printer Driver] on the installer screen.
- 2. The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next]. If installing the PostScript 3 printer driver, proceed to step 4.
- 3. Select a printer driver you want to use, and then click [Next].
- 4. Select [Specify a new port], and then click [Next].
- 5. Select [Standard TCP/IP Port], and then click [Next].
- 6. Click [Next].
- 7. Enter the printer name or IP address, and then click [Next].

When the device type selection appears, select "RICOH Network Printer C model".

8. Click [Finish].

- 9. Select the [Printer Name] check box of the printer model you want to use.
- 10. Configure the user code, default printer, and shared printer as necessary.
- 11. Click [Continue].

Follow the instructions on the screen.

#### Using the IPP port

#### 🚼 Important

- To print via IPP-SSL, use the SmartDeviceMonitor for Client port.
- Installation of the certificate is especially necessary for users who want to print via IPP-SSL from Windows Vista/7 or Windows Server 2008/2008 R2. 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 printer, 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/7 or
  Windows Server 2008/2008 R2. 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 printer.
- 1. On the [Start] menu, click [Devices and Printers].
- 2. Click [Add a printer].
- 3. Click [Add a network, wireless or Bluetooth printer].
- 4. Click [The printer that I want isn't listed].
- In the [Select a shared printer by name] box, enter "http://(printer's IP address or host name)/printer (or ipp)" as the printer's address, and then click [Next].
- 6. Click [Have Disk...].
- 7. Insert the provided CD-ROM into the computer's CD-ROM drive.

If the [AutoPlay] dialog box appears, click [Close].

8. Click [Browse...], and then specify a location for the INF file.

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

• PCL 5c/5e

32-bit driver D:\X86\DRIVERS\PCL5C or PCL5E\XP\_VISTA\(Language)\DISK1 64-bit driver D:\X64\DRIVERS\ PCL5C or PCL5E \X64\(Language)\DISK1

• PCL 6

32-bit driver D:\X86\DRIVERS\PCL6\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1

• PostScript 3

32-bit driver D:\X86\DRIVERS\PS\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

For details about the languages supported in the printer drivers, see p.7 "Supported languages".

- 9. Click [Open].
- 10. Click [OK] to close the [Install From Disk] window.
- Select the manufacturer and model name of the printer you want to use, and then click [Next].
- 12. Follow the instructions on the screen.

#### Using the LPR port

- 1. Click [PCL Printer Drivers] or [PostScript 3 Printer Driver] on the installer screen.
- 2. The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next]. If installing the PostScript 3 printer driver, proceed to step 4.
- 3. Select a printer driver you want to use, and then click [Next].
- 4. Select [Specify a new port], and then click [Next].
- 5. Select [LPR Port], and then click [Next].
- 6. Enter the printer name or IP address in the [Name or address of server providing lpd:] box.
- 7. Enter "lp" in the [Name of printer or print queue on that server:] box, and then click [OK].
- 8. Select the [Printer Name] check box of the printer model you want to use.
- 9. Configure the user code, default printer, and shared printer as necessary.
- 10. Click [Continue].

Follow the instructions on the screen.

#### Using the WSD port

#### 🔁 Important 🗋

• 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.

#### Windows Vista, Windows Server 2008

- 1. On the [Start] menu, click [Network].
- 1. Right-click the printer's icon, and then click [Install].
- 2. Click [Locate and install driver software (recommended)].
- 3. Click [Browse my computer for driver software (advanced)].
- 4. Insert the provided CD-ROM into the computer's CD-ROM drive. If the [AutoPlay] dialog box appears, click [Close].
- 5. Click [Browse...], and then specify the location of the INF file.
  If the CD-ROM drive is D, the source files of the printer driver are stored in the following locations:
  - PCL 5c/5e

32-bit driver D:\X86\DRIVERS\PCL5C or PCL5E\XP\_VISTA\(Language)\DISK1 64-bit driver D:\X64\DRIVERS\PCL5C or PCL5E \X64\(Language)\DISK1

PCL 6

32-bit driver D:\X86\DRIVERS\PCL6\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1

PostScript 3

32-bit driver D:\X86\DRIVERS\PS\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

For details about the languages supported in the printer drivers, see p.7 "Supported languages".

- 6. Click [Next].
- 7. Click [Close].

If installation is successful, the icon of the printer connected to the WSD port will appear in the window for configuring printers.

🖖 Note

- 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].

#### Windows 7, Windows Server 2008 R2

- 1. On the [Start] menu, click [Computer].
- 2. Click [Network].
- 3. Right-click the printer's icon, and then click [Install].
- 4. On the [Start] menu, click [Devices and Printers].
- 5. Click [Add a printer].

- 6. Click [Add a local printer].
- 7. Check the [Use an existing port:] check box, and select WSD port.
- 8. 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 [Close].

11. Click [Browse...], and then specify the location of the INF file.

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

PCL 5c/5e

32-bit driver D:\X86\DRIVERS\PCL5C or PCL5E\XP\_VISTA\(Language)\DISK1

64-bit driver D:\X64\DRIVERS\PCL5C or PCL5E\X64\(Language)\DISK1

• PCL 6

32-bit driver D:\X86\DRIVERS\PCL6\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1

PostScript 3

32-bit driver D:\X86\DRIVERS\PS\XP\_VISTA\MUI\DISK1

```
64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1
```

For details about the languages supported in the printer drivers, see p.7 "Supported languages".

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

Follow the instructions on the screen.

#### Note

To stop installation of the selected driver, 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

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.

1. Click [PCL Printer Drivers] or [PostScript 3 Printer Driver] on the installer screen.

2. The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next].

If installing the PostScript 3 printer driver, proceed to step 4.

- 3. Select a printer driver you want to use, and then click [Next].
- 4. Select [Specify a new port], and then click [Next].
- 5. Select [SmartDeviceMonitor], and then click [Next].
- 6. To configure port settings using TCP/IP, click [TCP/IP], and then click [Search]. To configure port settings using IPP, proceed to step 8.
- 7. Select the printer you want to use, and then click [OK].

Only printer 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. Proceed to step 13.

- 8. To configure port settings using IPP, click [IPP].
- In the [Printer URL] box, enter "http:// printer 's IP address/printer" as the printer 's address.

If the server authentication is issued, enter "https:// printer's IP address/printer" to enable SSL (a protocol for encrypted communication). 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.

10. Enter a name for identifying the printer in the [IPP Port Name] box. 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.

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

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

- 12. Click [OK].
- 13. Select the [Printer Name] check box of the printer model you want to use.
- 14. Configure the user code, default printer, and shared printer as necessary.
- 15. Click [Continue].

Follow the instructions on the screen.

#### Changing the port settings for SmartDeviceMonitor for Client

Follow the procedure below to change the SmartDeviceMonitor for Client settings, such as TCP/IP protocol.

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

The [Port Configuration:] window appears.

#### Note

- User, proxy, and timeout settings can be configured for IPP.
- For details about these settings, see SmartDeviceMonitor for Client Help.

### Using as a Network Printer

This section describes the driver installation procedure for each print server. See the installation procedure for the print server you are using.

🔁 Important

When using NetWare, an optional NetWare unit is required.

#### **Using Windows Print Server**

- 1. Click [PCL Printer Drivers] or [PostScript 3 Printer Driver] on the installer screen.
- The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next].

If installing the PostScript 3 printer driver, proceed to step 4.

- 3. Select a printer driver you want to use, and then click [Next].
- 4. Select [Specify a new port], and then click [Next].
- 5. Select [Network Printer], and then click [Next].
- Double-click the computer name you want to use as a print server in the [Browse for Printer] window.
- 7. Select the printer you want to use, and then click [OK].
- 8. Select the [Printer Name] check box of the printer model you want to use.
- 9. Configure the user code, default printer, and shared printer as necessary.
- 10. Click [Continue].

Follow the instructions on the screen.

#### Note

- If you print with a print server connected to the printer using the SmartDeviceMonitor for Client port, Recovery Printing and Parallel Printing cannot be used from the client computer.
- If you print under Windows Vista/7 or Windows Server 2008 print server, notification functions of SmartDeviceMonitor may not be used with the client computer.

#### Using NetWare Print Server

- 1. Click [PCL Printer Drivers] or [PostScript 3 Printer Driver] on the installer screen.
- The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next].

If installing the PostScript 3 printer driver, proceed to step 7.

- 3. Select a printer driver you want to use, and then click [Next].
- 4. Select [Specify a new port], and then click [Next].
- 5. Select [Network Printer], and then click [Next].
- Double-click the name of the NetWare file server on the network tree. The created queue is displayed.
- 7. Select the print queue, and then click [OK].
- 8. Check that the port of the selected printer is displayed in [Port :].
- 9. Click [Continue].

The installation starts.

- 10. Click [Finish] in the [Select Program] dialog box.
- 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.

- 12. After restarting the computer, on the [Start] menu, select [Printers and Faxes].
- 13. Right-click the printer's icon, and then click [Properties].
- 14. Click the [NetWare Settings] tab.
- 15. 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.

#### 16. Click [OK].

#### Note

 The protocol is set to inactive as default. Enable the protocol on the control panel or Web Image Monitor.

#### Notes When Using NetWare

#### 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:

 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 banner page.

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

• Clear the [Enable banner] check box on the [NetWare Settings] tab in the printer properties dialog box.

#### When using the PostScript 3 Printer Driver

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

- 1. On the [Start] menu, select [Printers and Faxes].
- 2. Right-click the printer's icon, and then click [Properties].
- 3. Click the [Device Settings] tab.
- 4. Select [No] on the [Send CTRL-D Before Each Job:] and [Send CTRL-D After Each Job:], and then click [Apply].
- 5. Click [OK].

#### 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.

# 4. Installing the Printer Driver for a Local Connection

This chapter describes the installation procedure of the printer drivers for USB or parallel connection under Windows operating system.

## **USB** Connection

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

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

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], [Printers and Faxes], or [Devices and 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.

#### Windows XP, Windows Server 2003/2003 R2

- 1. Check that the power of the printer is off.
- Connect the printer and computer using the USB cable.
   Connect the USB cable firmly.

Connect the OOD Cubie firmly.

**3.** Turn on the power of the printer.

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

- 4. Select [No, not this time], and then click [Next].
- 5. Click [Install from a list or specific location [Advanced]], and then click [Next].
- 6. Insert the provided CD-ROM into the computer's CD-ROM drive.

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

- Select the [Search removable media (floppy, CD-ROM...)] check box under [Search for the best driver in these locations.], and then click [Next].
- 8. Select the name of the printer whose driver you want to install.

Check the location where the source files of the printer driver is stored.

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

• PCL 5c/5e

32-bit driver D:\X86\DRIVERS\PCL5C or PCL5E\XP\_VISTA\(Language)\DISK1

64-bit driver D:\X64\DRIVERS\ PCL5C or PCL5E \X64\(Language)\DISK1

• PCL 6

32-bit driver D:\X86\DRIVERS\PCL6\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1

PostScript 3

32-bit driver D:\X86\DRIVERS\PS\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

For details about the languages supported in the printer drivers, see p.7 "Supported languages".

#### 9. Click [Next].

The installation starts.

10. Click [Finish].

If the printer driver has already been installed and plug and play is enabled, the icon of the printer connected to the "USB001" port is added to the [Printers], [Printers and Faxes], or [Devices and Printers] window.

The number after "USB" varies depending on the number of printers connected.

#### Windows Vista, Windows Server 2008

- 1. Check that the power of the printer is off.
- Connect the printer and computer using 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.

- In the [Found New Hardware] window, click [Locate and install driver software (recommended)].
- 5. Insert the provided CD-ROM into the computer's CD-ROM drive.

If the [AutoPlay] dialog box appears, click [Close].

6. Select the name of the printer whose driver you want to install.

Check the location where the source files of the printer driver is stored.

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

- PCL 5c/5e
   32-bit driver D:\X86\DRIVERS\PCL5C or PCL5E\XP\_VISTA\(Language)\DISK1
   64-bit driver D:\X64\DRIVERS\ PCL5C or PCL5E\X64\(Language)\DISK1
- PCL 6

32-bit driver D:\X86\DRIVERS\PCL6\XP\_VISTA\MUI\DISK1 64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1

• PostScript 3

32-bit driver D:\X86\DRIVERS\PS\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

For details about the languages supported in the printer drivers, see p.7 "Supported languages".

7. Click [Next].

The installation starts.

8. Click [Close].

If the printer driver has already been installed and plug and play is enabled, the icon of the printer connected to the "USB001" port is added to the [Printers], [Printers and Faxes], or [Devices and Printers] window.

The number after "USB" varies depending on the number of printers connected.

#### Windows 7, Windows Server 2008 R2

- 1. Check that the power of the printer is off.
- Connect the printer and computer using 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 [Devices and Printers] from the [Start] menu.
- 5. Double-Click the icon of printer you want to use in the [Unspecified] category.
- 6. Click the [Hardware] tab.
- 7. Click [Properties].
- 8. Click the [General] tab.
- 9. Click [Change settings].
- 10. Click [Driver] tab.
- 11. Click [Update Driver...].
- 12. Click [Browse my computer for driver software].
- 13. Insert the provided CD-ROM into the computer's CD-ROM drive.

If the [AutoPlay] dialog box appears, click [Close].

14. Click [Browse], and then 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 5c/5e

32-bit driver D:\X86\DRIVERS\PCL5C or PCL5E\XP\_VISTA\(Language)\DISK1 64-bit driver D:\X64\DRIVERS\PCL5C or PCL5E\X64\(Language)\DISK1

• PCL 6

32-bit driver D:\X86\DRIVERS\PCL6\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1

PostScript 3

32-bit driver D:\X86\DRIVERS\PS\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

For details about the languages supported in the printer drivers, see p.7 "Supported languages".

#### 15. Click [Next].

The installation starts.

#### 16. Click [Close].

If the printer driver has already been installed and plug and play is enabled, the icon of the printer connected to the "USB001" port is added to the [Printers], [Printers and Faxes], or [Devices and Printers] window.

The number after "USB" varies depending on the number of printers connected.

## **Parallel Connection**

- 1. Click [PCL Printer Drivers] or [PostScript 3 Printer Driver] on the installer screen.
- 2. The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next]. If installing the PostScript 3 printer driver, proceed to step 4.
- 3. Select a printer driver you want to use, and then click [Next].
- 4. Select [Specify a new port], and then click [Next].
- 5. Select [Local Port], and then click [Next].
- 6. Enter a port name, and then click [OK].
- 7. Select the [Printer Name] check box of the printer model you want to use.
- 8. Configure the user code, default printer, and shared printer as necessary.
- 9. Click [Continue].

Follow the instructions on the screen.

4. Installing the Printer Driver for a Local Connection

# 5. Configuring Option Settings for the Printer

This chapter explains the conditions for bidirectional communication with your computer and the printer, and also explains how to configure the printer's option settings manually.

## **Conditions for Bidirectional Communication**

When bidirectional communication works correctly, your computer obtains information about option, paper size and paper feed direction settings from the printer automatically.

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

#### When connected with parallel cables

- The computer 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.

#### When connected with the network

- The Standard TCP/IP port must be used.
- In addition to the above, the TCP/IP protocol or the IPP protocol must be used. (When using the IPP protocol, the IPP port name must include the IP address.)

#### 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.
- [Enable bidirectional support] must be selected, and [Enable printer pooling] must not be selected on the [Ports] tab with the printer driver.

Note

- The PCL 6 and PostScript 3 printer drivers support bidirectional communication and automatic printer status updates.
- To obtain printer information automatically using the bidirectional communication function of the PCL 6 or PostScript 3 printer driver, you must select the [Automatically Update Printer Information] check box on the [Accessories] tab in the printer driver's properties window.
- The PCL 5c/5e printer driver supports bidirectional communication. You can update the printer status manually.

## If Bidirectional Communication is Disabled

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

#### 🔁 Important

- Manage Printers permission is required to change the printer properties. Log on as an Administrators group member.
- 1. On the [Start] menu, select [Devices and Printers].
- 2. Right-click the printer's icon, and then click [Printer properties].
- 3. 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.

- 4. Select options installed from the [Options] area, and then make the necessary settings.
- 5. Click [Change Input Tray 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 [Modify Input Tray/Paper Size] to apply the setting for each tray.

- 7. Click [OK].
- 8. Click [OK] to close the printer properties window.

#### 🕗 Note

• For details about making option settings for the printer using a Mac OS X, see p.38 "Configuring Option Settings for the Printer Under Mac OS X".

## 6. Troubleshooting

This chapter provides solutions for driver installation and USB connection problems.

## 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 Wizard.

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

- 1. Open the printer window.
  - Windows XP, Windows Server 2003/2003 R2:

On the [Start] menu, select [Printers and Faxes].

• Windows Vista, Windows Server 2008:

On the [Start] menu, select [Control Panel], and then click [Printers] in [Hardware and Sound] category.

• Windows 7, Windows Server 2008 R2:

On the [Start] menu, select [Devices and Printers].

- 2. Click [Add a printer].
- 3. Follow the instructions in Add Printer Wizard.

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

• PCL 5c/5e

```
32-bit driver D:\X86\DRIVERS\PCL5C or PCL5E\XP_VISTA\(Language)\DISK1
```

64-bit driver D:\X64\DRIVERS\ PCL5C or PCL5E X64(Language)\DISK1

• PCL 6

32-bit driver D:\X86\DRIVERS\PCL6\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1

PostScript 3

32-bit driver D:\X86\DRIVERS\PS\XP\_VISTA\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

For details about the languages supported in the printer drivers, see p.7 "Supported languages".

#### 4. Specify a port.

Available ports vary according to your Windows operating system or the type of interface. For details, see p.8 "Confirming the Connection Method".

## **If USB Connection Fails**

This section describes how to troubleshoot a problem related to USB connections.

Problem	Causes	Solutions
The printer is not automatically recognized.	The USB cable is not connected properly.	Disconnect the USB cable, and then turn off the main power switch. Turn on the main power switch again. When the printer has fully booted up, reconnect the USB cable.
Windows has already configured the USB settings.	Check whether the computer has identified the printer as an unsupported device.	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.
The printer does not recognize the USB connection even when a USB cable is inserted.	If the USB cable is connected while the printer is off, the printer might not recognize the USB connection.	Press the operation switch, and then disconnect the USB cable. When the printer has returned to the ready condition, reconnect the USB cable.

6. Troubleshooting

## 7. Installing the Printer Driver Under Mac OS X

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

### Installing the PPD Files

To print using the printer specific features under Mac OS X, install the PPD files.

#### Coloritant 🖸

- You need an administrator name and a password (phrase). For details, consult your network administrator.
- For the latest information on the corresponding operating system, see the "Readme.txt" file in the DRIVERS folder.
- 1. Double-click the [Mac OS X] folder.
- 2. Double-click the [(brand name)] folder.
- 3. Double-click the [Mac OS X 10.5 or later] folder.
- 4. Double-click the [MacOSX PPD Installer] folder.
- 5. Double-click the package file icon.
- 6. Follow the instructions on the screen.

#### Vote

- The PPD files will be automatically installed in the following location:
- \Library\Printers\PPDs\Contents\Resources\

### **Registering the Printer**

To use the printer, the printer must be registered in the printer list.

Make sure the printer and computer are connected and turned on, and perform the following procedure.

For how to connect the printer to the computer, see "Connecting the Printer" HTML manual.

#### Vote

- When printing with a USB connection to a Macintosh computer, the printer language does not change automatically. Use the control panel on this printer to change the printer language to [Auto Detect] or [PS] before printing.
- The operating procedure under Mac OS X differs depending on the version of the operating system. Consult the procedure described in this manual, and make the necessary settings according to the manual of each version.

#### **USB** Connection

#### 🔁 Important

- Make sure the computer and the printer are connected using the USB cable, and the power of the devices are turned on beforehand.
- 1. Start System Preferences.
- 2. Click [Print & Fax] or [Print & Scan].
- 3. Click the [<sup>+</sup>] button.
- 4. Click [Default Browser] or [Default].
- 5. Select the printer that has "USB" indicated in the [Connection] or [Kind] column.
- 6. Select the printer you are using from the [Print Using:] pop-up menu.

If the printer you are using is not selected in [Print Using:], select its manufacturer, [Select a driver to use...], or [Select Printer Software...] in the pop-up menu, and then select the PPD file of the printer. For the location of the PPD files, see p.35 "Installing the PPD Files".

7. Click [Add].

If the option settings need to be configured, click [Configure...] in the dialog box that appears, and then configure the option settings.

8. Quit System Preferences.

#### **Network Connection**

- 1. Start System Preferences.
- 2. Click [Print & Fax] or [Print & Scan].
- 3. Click the [<sup>+</sup>] button.
- 4. Click [Default Browser] or [Default].
- 5. Select the printer that has "Bonjour" indicated in the [Connection] or [Kind] column.

If the printer name is not displayed, select the icon that corresponds to your network environment (TCP/IP, etc.).

6. Select the printer you are using from the [Print Using:] pop-up menu.

If the printer you are using is not selected in [Print Using:], select its manufacturer, [Select a driver to use...], or [Select Printer Software...] in the pop-up menu, and then select the PPD file of the printer. For the location of the PPD files, see p.35 "Installing the PPD Files".

7. Click [Add].

If the option settings need to be configured, click [Configure...] in the dialog box that appears, and then configure the option settings.

8. Quit System Preferences.

### Configuring Option Settings for the Printer Under Mac OS X

- 1. Start System Preferences.
- 2. Click [Print & Fax] or [Print & Scan].
- 3. Select the printer you are using, and then click [Options & Supplies...].
- 4. Click [Driver], and then configure settings as needed.
- 5. Click [OK].
- 6. Quit System Preferences.

#### Vote

• 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.

# 8. Updating or Deleting the Printer Driver

This chapter explains how to update or delete the printer driver.

### Updating the Printer Driver

#### 🔂 Important

• For driver updates, select a driver that is compatible with the printer and driver type you are using. An error may result if you select a driver that is not compatible with the printer and driver type.

#### Windows Operating System

You can download the most recent version of the driver from the manufacturer's Web site. Download the latest driver, and then perform the following procedure.

- 1. On the [Start] menu, select [Devices and Printers].
- 2. Right-click the printer's icon, and then click [Printer properties].
- 3. Click the [Advanced] tab.
- 4. Click [New Driver...], and then click [Next].
- 5. Click [Have Disk...].
- 6. Click [Browse...], and then select the driver location.
- 7. Click [OK].
- 8. Select the printer model, and then click [Next].

The driver update starts.

- 9. Click [Finish].
- 10. Click [OK] to close the printer properties window.
- 11. Restart the computer.

#### Mac OS X

You can download the most recent version of ppd file from the manufacturer's Web site.

Delete the old version of the ppd file first, and then install the new ppd file. For details about how to delete the ppd file, see p.40 "Deleting the Printer Driver".

### **Deleting the Printer Driver**

#### Windows Operating System

#### Windows XP, Windows Server 2003/2003 R2

- 1. On the [Start] menu, click [Printers and Faxes].
- 2. Right-click the icon of the printer you want to delete, and then click [Delete].
- 3. Click [Server Properties] on the [File] menu.
- 4. Click the [Drivers] tab.
- 5. Select the driver you want to delete, and then click [Remove].
- 6. Click [Yes].
- 7. Click [Close] to close the print server properties window.

#### Windows Vista, Windows Server 2008

- On the [Start] menu, select [Control Panel], and then click [Printers] in [Hardware and Sound] category.
- 2. Right-click the icon of the printer you want to delete, and then click [Delete].
- 3. On the [File] menu, point to [Run as administrator], and then click [Server Properties...].
- 4. Click the [Drivers] tab.
- 5. Select the driver you want to delete, and then click [Remove...].
- 6. Select [Remove driver and driver package.], and then click [OK].
- 7. Click [Yes].
- 8. Click [Delete].
- 9. Click [OK].
- 10. Click [Close] to close the print server properties window.

#### Windows 7, Windows Server 2008 R2

- 1. On the [Start] menu, click [Devices and Printers].
- 2. Right-click the icon of the printer you want to delete, and then click [Remove Device].
- 3. Click [Yes].
- 4. Click any printer icon, and then click [Print server properties].

- 5. Click the [Drivers] tab.
- 6. Click the [Change Driver Settings] button if it is displayed.
- 7. Select the driver you want to delete, and then click [Remove...].
- 8. Select [Remove driver and driver package.], and then click [OK].
- 9. Click [Yes].
- 10. Click [Delete].
- 11. Click [OK].
- 12. Click [Close] to close the print server properties window.

#### Mac OS X

- 1. Start System Preferences.
- 2. Click [Print & Fax] or [Print & Scan].
- 3. Select the printer you want to delete, click the [-] button.

8. Updating or Deleting the Printer Driver

# 9. Appendix

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