



Operating Instructions

Driver Installation Guide

See the other online manuals on our website (<http://www.ricoh.com/>) or from the control panel.



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1. Introduction

This chapter explains the software included on the supplied CD-ROM.

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:

Network Quick Install

Installs the PCL 6 printer driver via a network connection and configures settings to use the printer in a network.

For details, see page 9 "Quick Installation via a Network".

USB Quick Install

Installs the PCL 6 printer driver via a USB connection and configures settings to connect the printer to a computer.

For details, see page 10 "Quick Installation via a USB Connection".

PCL Printer Drivers

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

For details about installing drivers, see page 11 "Installing the Printer Driver for a Network Connection" or page 19 "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 page 11 "Installing the Printer Driver for a Network Connection" or page 19 "Installing the Printer Driver for a Local Connection".

Select Language

Change the interface language.

Browse This Disk

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 root folder.
- For the latest information on Windows terminal service, XenDesktop, and Citrix Xen App, see the manufacturer's Web site.

Printer Drivers

For printing, install a printer driver on your computer. The following drivers are included on the CD-ROM:

Operating System ^{*1}	Printer Drivers		
	PCL 5c	PCL 6	PostScript 3
Windows Vista ^{*2}	○	○	○
Windows 7 ^{*3}	○	○	○
Windows 8 ^{*4}	○	○	○
Windows 8.1 ^{*5}	○	○	○
Windows 10	○	○	○
Windows Server 2003 ^{*7}	○	○	○
Windows Server 2008 ^{*8}	○	○	○
Windows Server 2012 ^{*9}	○	○	○
Mac OS X ^{*10}	—	—	○

○: Supported

^{*1} Printer drivers support both 32-bit and 64-bit Windows.

^{*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 8/Microsoft Windows 8 Pro/Microsoft Windows 8 Enterprise

- *5 Microsoft Windows 8.1/Microsoft Windows 8.1 Pro/Microsoft Windows 8.1 Enterprise
- *6 Microsoft Windows 10 Home/Microsoft Windows 10 Pro/Microsoft Windows 10 Enterprise/Microsoft Windows 10 Education
- *7 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
- *8 Microsoft Windows Server 2008 Standard/Microsoft Windows Server 2008 Enterprise/Microsoft Windows Server 2008 R2 Standard/Microsoft Windows Server 2008 R2 Enterprise
- *9 Microsoft Windows Server 2012 Foundation/Microsoft Windows Server 2012 Essentials/Microsoft Windows Server 2012 Standard/Microsoft Windows Server 2012 R2 Foundation/Microsoft Windows Server 2012 R2 Essentials/Microsoft Windows Server 2012 R2 Standard
- *10 Mac OS X 10.8 or later

PCL printer drivers

PCL 5c and PCL 6 printer drivers are included. A computer installed with these drivers can communicate with this printer using a printer language.

Adobe® PostScript® printer driver

A computer installed with Adobe PostScript printer driver can communicate with the printer using a printer language.

PPD files

If the PostScript 3 printer driver is used, PPD files enable printer functions using PostScript 3 printer language.

Note

- The PCL 5c printer driver needs to be installed for some applications. In this case, you can install PCL 5c without having to install PCL 6.
- For details about installing the driver, see page 11 "Installing the Printer Driver for a Network Connection" or page 19 "Installing the Printer Driver for a Local Connection".

Supported languages

The languages supported in each printer driver are as follow:

Supported languages	Printer Language		
	PCL 5c ^{*1}	PCL 6 ^{*2}	PostScript 3 ^{*2}
English	○	○	○
German	○	○	○
French	○	○	○

Supported languages	Printer Language		
	PCL 5c ^{*1}	PCL 6 ^{*2}	PostScript 3 ^{*2}
Italian	○	○	○
Spanish	○	○	○
Dutch	○	○	○
Swedish	○	○	○
Norwegian	○	○	○
Danish	○	○	○
Finnish	○	○	△
Hungarian	○	○	△
Czech	○	○	△
Polish	○	○	△
Portuguese	○	○	△
Russian	○	○	△
Catalan	○	○	△
Turkish	○	○	△
Brazilian Portuguese	△	○	△
Greek	△	○	△

○: Supported

△: Supported, but the printer language is displayed in English

^{*1} The PCL 5c printer driver does not support Brazilian Portuguese and Greek. Use the English version of the driver.

^{*2} 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, and Greek.

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 depends on which Windows operating systems are used with available connection methods.

Connection Methods	Available Ports
- Ethernet - Wireless LAN	- Standard TCP/IP port - IPP port - LPR port - WSD port * 1

* 1 WSD port does not support Windows XP.

 Note

- For details about how to install printer drivers for these ports, see page 11 "Installing the Printer Driver Using the Selected Port".

Using this printer as a network printer

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

The printer drivers that support Windows servers as follows:

- Windows Vista print server
- Windows 7 print server
- Windows 8 print server
- Windows 8.1 print server
- Windows 10 print server

- Windows Server 2003/2003 R2 print server
- Windows Server 2008/2008 R2 print server
- Windows Server 2012/2012 R2 print server

 Note

- For details about how to install printer drivers to print servers, see page 18 "Using as a Network Printer".

Local Connection

Local connections can be established via USB and parallel connections.

 Note

- For details about how to install printer drivers using available connection methods, see page 19 "Installing the Printer Driver for a Local Connection".

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.

Quick Installation via a Network

2

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

1. Click [Network 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 machine model you want to use in the [Select Printer] dialog box.
5. Click [Install].
6. When the port setting screen appears, specify a port.
7. Configure the user code, default printer, and shared printer as necessary.
8. Click [Continue].

The installation starts.

9. Click [Finish].

When you are prompted to restart your computer, restart it by following the instructions that appear.

10. Click [Exit] in the first window of the installer, and then take out the CD-ROM.

Quick Installation via a USB Connection

Using USB Quick Install, you can install the PCL 6 printer driver via a USB connection, and configure settings to connect the printer to a computer.

1. Click **[USB 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. Select the method to install a printer driver, and then click **[Next >]**.
4. Select the machine model you want to use, and then click **[Next >]**.
5. Make sure the machine is turned off and not connected to the computer, and then click **[Next >]**.

Wait for a moment until file copying is complete and **[<Auto-detect USB Port>]** screen appears.

6. Connect the machine and the computer with a USB cable, and then turn on the machine.

The auto-detecting starts.

7. In the confirmation dialog box, select **[Yes]** if you want to use the machine as your default printer.
8. Click **[Finish]**.

When you are prompted to restart your computer, restart it by following the instructions that appear.

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

3. Installing the Printer Driver for a Network Connection

This chapter explains how to install printer drivers for network connections under Windows operating system.

Installing the Printer Driver Using the Selected Port

3

This section explains how to install printer drivers using printer ports. See the following installation procedure for the printer port you use.

Ports	Reference
Standard TCP/IP port	page 11 "Using the Standard TCP/IP port"
IPP port	page 12 "Using the IPP port"
LPR port	page 14 "Using the LPR port"
WSD port	page 14 "Using the WSD 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. Specify the user code, default printer, and shared printer as necessary.

11. Click [Continue].

Follow the instructions on the screen.

Note

- The [AutoPlay] dialog box is displayed only for a few seconds under Windows 8/8.1 and Windows Server 2012/2012 R2. If the [AutoPlay] dialog box disappears, use the following procedure to replay the CD-ROM:
 - Windows 8, Windows Server 2012
 1. On the Charm Bar, click [Search], and then click [Computer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".
 - Windows 8.1, Windows Server 2012 R2
 1. On the desktop, right-click the [Start] button, and then click [File Explorer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".
 - Windows 10
 1. On the desktop, right-click the [Start] button, and then click [File Explorer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set.

Using the IPP port

Important

- Installing certificates is required for users who want to print via IPP-SSL from Windows Vista/7/8/8.1/10 or Windows Server 2008/2008 R2/2012/2012 R2. For details, contact 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/7/8/8.1/10 or Windows Server 2008/2008 R2/2012/2012 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].

If you are using a computer that is running Windows 8/8.1 or Windows Server 2012/2012 R2, click [Settings] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [View devices and printers].

If you are using a computer that is running Windows 10, right-click the [Start] button on the desktop, and then click [Control Panel]. When the [Control Panel] window appears, click [View devices and printers].

2. Click [Add a printer].

If you are using a computer that is running Windows 8/8.1 or Windows Server 2012/2012 R2, proceed to Step 4.

3. Click [Add a network, wireless or Bluetooth printer].**4. Click [The printer that I want isn't listed].****5. 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
 - 32-bit driver D:\X86\DRIVERS\PCL5C\X86\Language\DISK1
 - 64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1
- PCL 6
 - 32-bit driver D:\X86\DRIVERS\PCL6\X86\MUI\DISK1
 - 64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1
- PostScript 3
 - 32-bit driver D:\X86\DRIVERS\PS\X86\MUI\DISK1
 - 64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

For details about the languages supported by the printer drivers, see page 5 "Supported languages".

9. Click [Open].**10. Click [OK] to close the [Install From Disk] window.****11. Select the manufacturer and model name of the printer you want to use, and then click [OK].****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 the 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. Specify the user code, default printer, and shared printer as necessary.
10. Click [Continue].

Follow the instructions on the screen.

Using the WSD port

★ Important

- The WSD port can be used under Windows Vista/7/8/8.1/10, or Windows Server 2008/2008 R2/2012/2012 R2.
- 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].
2. Right-click the printer's icon, and then click [Install].
3. Click [Locate and install driver software (recommended)].
4. Click [Browse my computer for driver software (advanced)].
5. Insert the provided CD-ROM into the computer's CD-ROM drive.

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

6. 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

32-bit driver D:\X86\DRIVERS\PCL5C\X86\Language\DISK1

64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1

- PCL 6

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

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

- PostScript 3

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

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

For details about the languages supported in the printer drivers, see page 5 "Supported languages".

7. Click [Next].

8. Click [Close].

If installation is complete, 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. To install the WSD Port again, 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. Select [Use an existing port:], and then select WSD port.
8. Click [Next].
9. Click [Have Disk...].
10. 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

32-bit driver D:\X86\DRIVERS\PCL5C\X86\Language\DISK1

64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1

- PCL 6
32-bit driver D:\X86\DRIVERS\PCL6\X86\MUI\DISK1
64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1
- PostScript 3
32-bit driver D:\X86\DRIVERS\PS\X86\MUI\DISK1
64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

For details about the languages supported in the printer drivers, see page 5 "Supported languages".

11. Click [OK] to close the [Install From Disk] window.
12. Select the manufacturer and model name of the printer you want to use, and then click [Next].
13. Follow the instructions that appear. Modify settings such as printer name, default printer, and printer sharing configuration, as necessary. You can also print a test page.
14. Click [Finish].

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

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].

Windows 8/8.1/10, Windows Server 2012/2012 R2

1. Click [Settings] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [View devices and printers].

If you are using a computer that is running Windows 10, right-click the [Start] button on the desktop, and then click [Control Panel]. When the [Control Panel] window appears, click [View devices and printers].

2. Click any printer icon, and then click [Print server properties].
3. Click the [Drivers] tab, and then click [Add].
4. Click [Next].
5. Check the [x64] (64 bit) or [X86] (32 bit) check box, and then click [Next].
6. Click [Have Disk...].
7. 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
32-bit driver D:\X86\DRIVERS\PCL5C\X86\Language\DISK1

64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1

- PCL 6

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

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

- PostScript 3

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

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

For details about the languages supported in the printer drivers, see page 5 "Supported languages".

8. Click [OK].
9. Select the manufacturer and model name of the printer you want to use, and then click [Next].
10. Click [Finish].
11. Click [Close] to close the print server properties window.
12. Click [Add a Printer] on the [Devices and Printers] window.
13. Click [The printer that I want isn't listed].
14. Click [Next].
15. Select the printer you want to use, and then click [Next].

Note

- To cancel the installation of the selected driver, click [Cancel] before the installation is complete. To install the WSD Port again, right-click the printer's icon in the [Network] window, and then click [Uninstall].

Using as a Network Printer

This section explains how to install printer drivers for print servers. See the installation procedure for the print server you are using.

Using Windows Print Server

3

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 the 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].
6. 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. Specify the user code, default printer, and shared printer as necessary.
10. Click [Continue].
11. Follow the instructions on the screen.

Note

- If you print under Windows Vista/7/8/8.1/10 or Windows Server 2008/2012/2012 R2 print server, notification functions of SmartDeviceMonitor may not be used with the client computer.

4. Installing the Printer Driver for a Local Connection

This chapter explains how to install printer drivers for USB or parallel connection under Windows operating systems.

USB Connection

This section explains how to install printer drivers using USB.

Before installing, check that no applications are running on the computer and no print jobs are in progress.

4

Windows Server 2003/2003 R2

1. Check that the printer is turned off.

2. Connect the printer and computer using the USB cable.

Connect the USB cable firmly.

3. Turn the printer on.

If New Hardware Wizard has been installed, it starts automatically to install USB Printing Support.

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].

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

Check where the source files of the printer driver are stored.

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

- PCL 5c

32-bit driver D:\X86\DRIVERS\PCL5C\X86\Language\DISK1

64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1

- PCL 6

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

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

- PostScript 3

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

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

For details about the languages supported for the printer drivers, see page 5 "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 the printers connected.

Windows Vista, Windows Server 2008

1. Check that the printer is turned off.

2. Connect the printer and the computer using a USB cable.

Connect the USB cable firmly.

3. Turn the printer on.

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

4. 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 where the source files of the printer driver are stored.

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

- PCL 5c

32-bit driver D:\X86\DRIVERS\PCL5C\X86\Language\DISK1

64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1

- PCL 6

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

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

- PostScript 3

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

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

For details about the languages supported in the printer drivers, see page 5 "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 the printers connected.

Windows 7/8/8.1/10, Windows Server 2008 R2/2012/2012 R2

1. Open the [Devices and Printers] window.

- Windows 7, Windows Server 2008 R2:
On the [Start] menu, select [Devices and Printers].
- Windows 8/8.1/10, Windows Server 2012/2012 R2:
Click [Settings] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [View devices and printers].

2. Click any printer icon, and then click [Print server properties].

3. Click the [Drivers] tab, and then click [Add].

4. Click [Next].

5. Check the [x64] (64 bit) or [X86] (32 bit) check box, and then click [Next].

6. Click [Have Disk...].

7. 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
32-bit driver D:\X86\DRIVERS\PCL5C\X86\Language\DISK1
64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1
- PCL 6
32-bit driver D:\X86\DRIVERS\PCL6\X86\MUI\DISK1
64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1
- PostScript 3
32-bit driver D:\X86\DRIVERS\PS\X86\MUI\DISK1

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

For details about the languages supported in the printer drivers, see page 5 "Supported languages".

8. Click [OK].
9. Select the manufacturer and model name of the printer you want to use, and then click [Next].
10. Click [Finish].
11. Click [Close] to close the print server properties window.
12. Check that the power of the printer is off.
13. Connect the printer and computer using a USB cable.
Connect the USB cable firmly.
14. Turn on the power of the printer.

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 the 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. Specify the user code, default printer, and shared printer as necessary.
9. Click [Continue].
10. Follow the instructions on the screen.

Note

- The [AutoPlay] dialog box is displayed only for a few seconds under Windows 8/8.1 and Windows Server 2012/2012 R2. If the [AutoPlay] dialog box disappears, use the following procedure to replay the CD-ROM:
 - Windows 8, Windows Server 2012
 1. On the Charm Bar, click [Search], and then click [Computer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".
 - Windows 8.1, Windows Server 2012 R2
 1. On the desktop, right-click the [Start] button, and then click [File Explorer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".
 - Windows 10
 1. On the desktop, right-click the [Start] button, and then click [File Explorer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set.

5. Configuring Option Settings for the Printer

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

Conditions for Bidirectional Communication

When bidirectional communication is enabled, your computer automatically obtains information about option, paper size, or paper feed direction settings from the printer.

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

When your computer is 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 your computer is connected with the network

- The Standard TCP/IP port must be used.
- The TCP/IP protocol or the IPP protocol must be used. (If the IPP protocol is used, the IPP port name must include the IP address.)

When your computer is 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 in the printer driver's properties window.

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 printer driver supports bidirectional communication. You can update the printer status manually.

If Bidirectional Communication is Disabled

If bidirectional communication is disabled, manually configure option, paper size, or paper feed direction settings on your computer. This section explains how to configure option, paper size, or paper feed direction settings on your computer manually.

★ Important

- You must have permission 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 configure the necessary settings.
5. Click [Change Input Tray Settings...].
6. In [Input Tray:], specify which trays to use. Following this, in [Paper Size:], specify 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's properties window.

↓ Note

- For details about configuring option settings for the printer using a Mac OS X, see page 34 "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 explains what to do if a message appears while the printer driver is installed.

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 currently installed printer driver.

1. Open the printer window.

- 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].
- Windows 8/8.1/10, Windows Server 2012/2012 R2:
Click [Settings] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [View 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
32-bit driver D:\X86\DRIVERS\PCL5C\X86\Language\DISK1
64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1
- PCL 6
32-bit driver D:\X86\DRIVERS\PCL6\X86\MUI\DISK1
64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1
- PostScript 3
32-bit driver D:\X86\DRIVERS\PS\X86\MUI\DISK1
64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

For details about the languages supported for the printer drivers, see page 5 "Supported languages".

4. Specify a port.

Available ports vary according to your Windows operating system or the type of interface. For details, see page 7 "Confirming the Connection Method".

If USB Connection Fails

This section explains how to troubleshoot problems related to USB connections.

Problems	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, connect the USB cable to the printer again.
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 connected.	If the USB cable is connected while the printer is turned 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, connect the USB cable to the printer again.

7. Installing the Printer Driver Under OS X

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

Installing PPD Files

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

★ Important

- You need an administrator name and a password or passphrase. For details, contact your network administrator.
1. Double-click the [Mac OS X] folder.
 2. Double-click the [(brand name)] folder.
 3. Double-click the [MacOSX PPD Installer] folder.
 4. Double-click the package file icon.
 5. Follow the instructions on the screen.

↓ Note

- 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 details about how to connect the printer to the computer, see "Connecting the Printer" HTML manual.

Note

- When printing with a USB connection to a Macintosh computer, the printer language does not change automatically. Use the control panel on the 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. Check the procedure described in this manual, and configure the necessary settings according to the manual for each version.

USB Connection

Important

- Make sure the computer and the printer are connected using the USB cable, and the power of the devices has been turned on.

1. Start System Preferences.
2. Click [Print & Fax] or [Print & Scan].
3. Click the [+] 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:] or [Use:] pop-up menu.

If the printer you are using is not selected in [Print Using:] or [Use:], 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 page 31 "Installing PPD Files".

7. Click [Add].

If 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 [+] button.**

If you are using OS X 10.9 or later, click [Add Printer or Scanner...].

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:] or [Use:] pop-up menu.**

If the printer you are using is not selected in [Print Using:] or [Use:], 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 page 31 "Installing PPD Files".

7. **Click [Add].**

If 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 the settings as necessary.
5. Click [OK].
6. Quit System Preferences.

Note

- If the option you want to select is not displayed, PPD files may not be configured correctly. To complete the configuration, 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 as follows:

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 files, file, see page 36 "Deleting the Printer Driver".

Deleting the Printer Driver

Windows Operating System

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

1. 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's properties window.

Windows 7/8/8.1/10, Windows Server 2008 R2/2012/2012 R2

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

If you are using a computer that is running Windows 8/8.1/10 or Windows Server 2012/2012 R2, click [Settings] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [View 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 [Printers & Scanners].
3. Select the printer you want to delete, click the [−] button.
4. Click [Delete Printer].

9. Appendix

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