



KONICA MINOLTA

The essentials of imaging

# **bizhub PRO**

## **1200/1200P/1051**

### **User's Guide**

Printer



- Chapter 1 : Introduction
- Chapter 2 : Overview
- Chapter 3 : Installation of the printer driver (Windows)  
(Easy installation using the installer)
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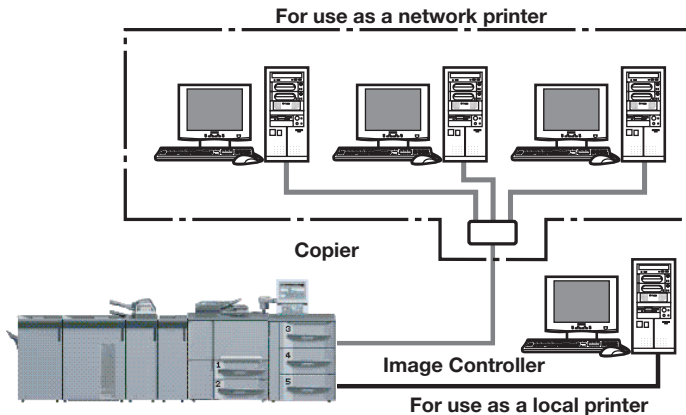
# 1 Introduction

Thank you very much for purchasing the bizhub PRO 1200/1200P/1051.

This User's Guide describes the operating procedures and safety precautions of the bizhub PRO 1200/1200P/1051 so that you can handle it safely and make the

best of its capabilities. Usually keep this User's Guide close at hand for the convenience of reference later.

The bizhub PRO 1200/1200P/1051 is a copier equipped with a image controller function which allows you to print directly from a Windows compliant computer. And using a PostScript driver provided also allows you to print from Macintosh. And you can also use the copier as a network printer.



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#### About Patent

Adobe® PostScript® is protected by patents in the United States and other countries.

#### Built-in Fonts

The image controller includes support for PCL5e/6 Language (HP PCL clone) and includes the 80 built-in Agfa Microtype fonts. For a complete list, refer to "Font" on Page 12-1.

When equipping PostScript kit option, the image controller also includes support for Adobe PostScript 3 (PS3) and includes the 136 built-in Adobe fonts. For a complete list, refer to "Font" on Page 12-1.

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## 1.1 Composition of User's Guide

This machine is provided with the following user's guides.

### **User's Guide - Copier (Printed matters), (User's Guide CD)**

This guide describes an outline of the machine and copy operations. For bizhub PRO 1200P, it is not contained in the same package.

Please refer to this guide for safety information, turning on/off the machine, paper supply, dealing with machine trouble such as paper jam, and copy operation available on the machine.

### **User's Guide - POD Administrator's Reference (Printed matters), (User's Guide CD)**

This guide provides you with detailed information about the machine management and how to customize the machine according to your daily use. For bizhub PRO 1200P, it is not contained in the same package.

Please refer to this guide for a setup and management of the machine including registration of copy paper, tray setting, and a network setup.

### **User's Guide - Security (Printed matters), (User's Guide CD)**

This guide describes the security functions.

Please refer to this guide for how to use the Enhanced Security mode, and for detailed machine operation in Enhanced Security mode.

### **User's Guide - Network Scanner (Printed matters), (User's Guide CD)**

This guide describes the operation of the network scanner function equipped for the machine as standard. For bizhub PRO 1200P, it is not contained in the same package.

Please refer to this guide for full information on reading data or storing data (Scan to HDD, Scan to E-mail, Scan to FTP, Scan to SMB).

### **Trademarks/Copyrights (User's Guide CD)**

This guide describes trademarks, licenses and copyrights concerning this machine. Be sure to read this guide before using the machine.

### **User's Guide - Printer <This book> (User's Guide CD)**

This guide describes the operation of the printer function equipped for the machine.

Please refer to this guide for how to use PCL driver, Adobe PS driver and PageScope Web Connection in user mode.

**User's Guide - Printer (PostScript3 Plug-in Driver) (User's Guide CD)**

This guide describes the operation of the printer function equipped for the machine as standard.

Please refer to this guide for how to use Plug-in driver in user mode.

**Operation Quick Guide (Printed matters)**

The descriptions given in this guide are excerpts from the operation section of frequently used functions. For bizhub PRO 1200P, it is not contained in the same package.

Please refer to this guide for quick comprehension of various features available on the machine.

**User's Guide - Main Body (Printed matters), (User's Guide CD)**

This guide describes an outline of the machine and print operations. Only for bizhub PRO 1200P, it is contained in the same package.

Please refer to this guide for safety information, turning on/off the machine, paper supply, dealing with machine trouble such as paper jam, a setup and management of the machine including registration of paper, tray setting and a network setup.

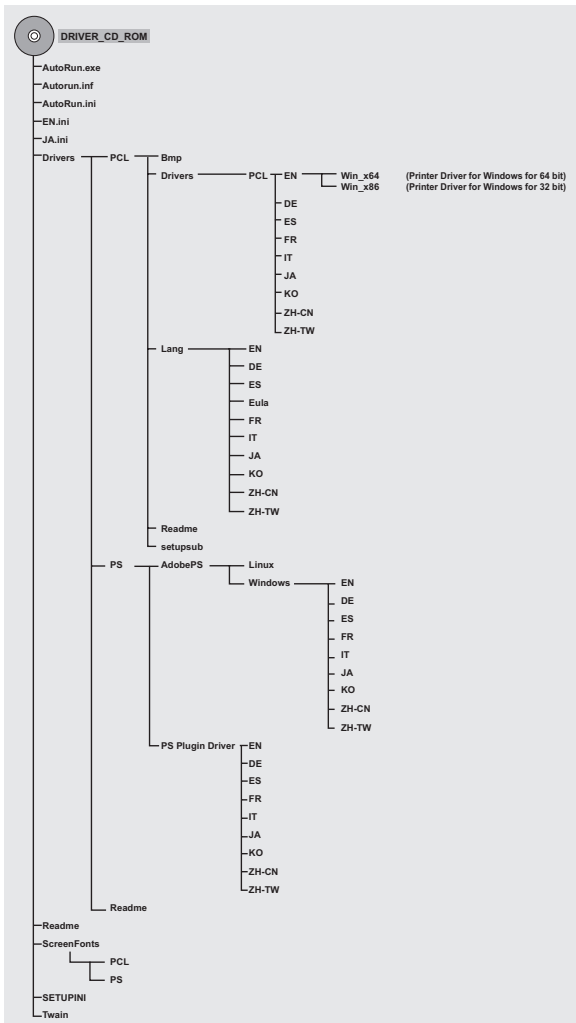
To operate safely, be sure to read "Section 1: Precautions for Installation and Use" in User's Guide [Copier or Main Body] before using the machine.

## 1.2 Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)

The folders included on the accompanying bizhub PRO 1200/1200P/1051 Driver CD-ROM (Driver CD) for image controller are structured as shown below.

This illustration will be helpful for locating specific folders or files.

- In this manual, folder names and file names are not necessarily preceded by the root directory.
- You may use the files in the EN folder.

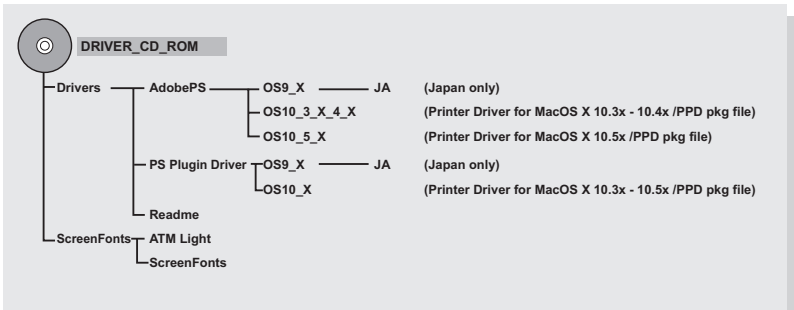


### 1.3 Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM for Macintosh)

The folders included on the accompanying bizhub PRO 1200/1200P/1051 Driver CD-ROM (Driver CD) for PostScript 3 are structured as shown below.

This illustration will be helpful for locating specific folders or files.

- In this manual, folder names and file names are not necessarily preceded by the root directory.
- You may use the files in the EN folder.



## 1.4 About this Manual

This document describes how to operate bizhub PRO 1200/1200P/1051 as a printer from various computers and networks.

This manual assumes you are familiar with the basic operation of your operating system and the KONICA MINOLTA copier.

The KONICA MINOLTA copier comes with User's Guide. Refer to these manuals as needed.

For detailed operations of Windows and Mac OS, refer to the operating manuals for each operating system. For application operations, refer to the operating manuals provided with each application.

This manual is composed of the following chapters and appendices:

Chapter 1 Introduction	This chapter describes how to see the notation method in this manual.
Chapter 2 Overview	This chapter describes overview of the image controller and product specifications for the image controller.
Chapter 3 Installation of the printer driver (Windows) (Easy installation using the installer)	This chapter describes how to install the printer driver using the installer.
Chapter 4 Installation of the printer driver (Windows) (Manual installation using the Add Printer wizard)	This chapter describes how to install the printer driver for local printing to Windows-compliant computers.
Chapter 5 Installation of the printer driver (Macintosh)	This chapter describes how to install the printer driver for network printing to Windows-compliant computers and Macintosh.
Chapter 6 Uninstallation of the printer driver	This chapter describes how to update the printer driver.
Chapter 7 Basic Printing and Various Function	This chapter describes various functions of the image controller.
Chapter 8 PCL Printer Driver Setting (Windows)	This chapter describes PCL6 printer driver settings for Windows-compliant computers.
Chapter 9 PostScript PPD Printer Driver setting (Windows)	This chapter describes optional PostScript PPD printer driver settings for Windows-compliant computers.
Chapter 10 PostScript PPD Printer Driver setting (Mac OS X)	This chapter describes optional PostScript PPD printer driver settings for Macintosh (Mac OS X).
Chapter 11 Troubleshooting	This chapter describes how to solve the problem on using the printer driver.
Chapter 12 Font	This chapter lists the built-in printer fonts included with the image controller.
Chapter 13 Utility Tool	This chapter describes how to use the utility tool included on the user software CD.

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Chapter 14 Appendix	This chapter lists and describes technical terms to read this manual.
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## 1.5 Notation of each product

The following abbreviations are used in this manual:

- |   |   |
|---|---|
| 1. Image controller   | Image controller  |
| 2. bizhub PRO 1200/1200P/1051<br>Printer/Copier:                      | copier (or main body printer)                                       |
| 3. A printing system that combines the above<br>(1) and (2) products: | printing system   |
| 4. Microsoft Windows 2000:  | Windows 2000  |
| 5. Microsoft Windows XP:  | Windows XP  |
| 6. Microsoft Windows Vista:   | Windows Vista   |
| 7. Microsoft Windows 7:   | Windows 7   |
| 8. Microsoft Windows Server 2003:                                     | Server 2003   |
| 9. Microsoft Windows Server 2008:                                     | Server 2008   |
| 10. Mac OS X v10.3x - v10.5x  | Mac OS X  |
| 11. Above OSs:  | Windows 2000/XP/Vista/7/<br>Server 2003/Server 2008<br><br>Mac OS X |



### Detail

*For Windows XP/Vista/7/Server 2003/Server 2008, the following are included; that is, Windows XP Professional, Windows Vista, Windows 7, Server 2003/Server 2008 that are 64bit OS.*

# 1.6 How to read this Manual

Show an object and feature of a procedure.

Describes operating procedures.

**Note**

Explanations to supplement the body. Memos may be included in the body.

**Detail**

Hints and Advices on operating procedures.

**Reminder**

Explains important notices on operating procedures.

[ ] are used for the terms displayed on the screens.

## 6 Various Function

This chapter describes basic printing method from application, and various functions.

### Basic Printing method (Windows)

The following shows the basic methods for the printing from a Windows.

This pages is explained by using Windows Vista.

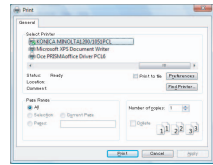
Before printing, be sure the connection of the image controller and your computer and the printer driver.

- 1 Select [Print] from [File] menu in an application.

**Note**

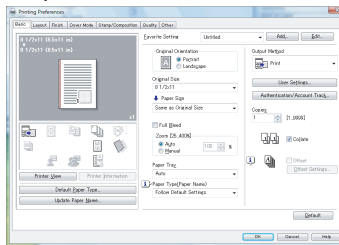
Command name may be different pending on the application.

The [Print] dialog appears.



- 2 Select printer in the list.

- 3 Click [Properties] to set detail if necessary.



- 4 Click [OK] if a required setup is finished.

The display returns to the [Print] dialog.

This page does not exist in the document.

## 1.7 SOFTWARE LICENSE AGREEMENT

### SOFTWARE LICENSE AGREEMENT

This package contains the following materials provided by Konica Minolta Business Technologies, Inc. (KMBT): software included as part of the printing system, the digitally-encoded machine-readable outline data encoded in the special format and in the encrypted form (“Font Programs”), other software which runs on a computer system for use in conjunction with the Printing Software (“Host Software”), and related explanatory written materials (“Documentation”). The term “Software” shall be used to describe Printing Software, Font Programs and/or Host Software and also include any upgrades, modified versions, additions, and copies of the Software.

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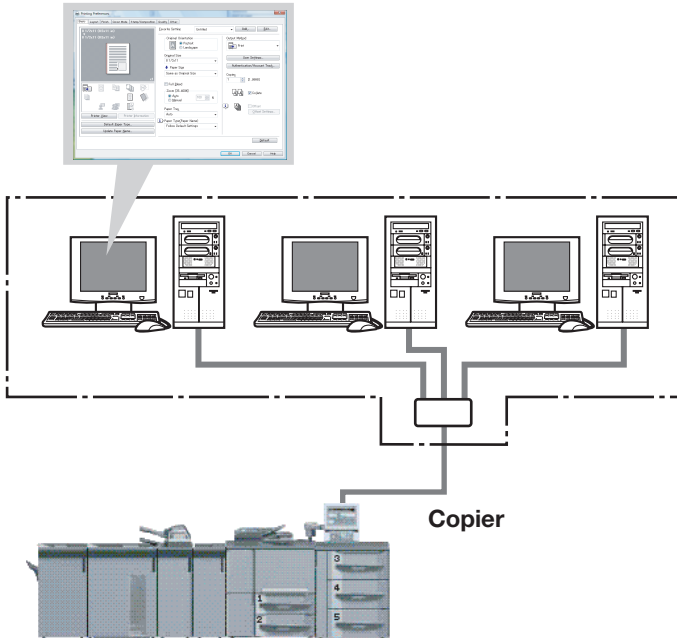
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## 2 Overview

The image controller feature enables the copier to connect to computers and networks to use as a printer.



## 2.1 Printer Driver

This printing system is equipped with the PCL and the PostScript3 (Post-Script PPD/PS Plug-in) printer functions.

In order to use this printing system, it is necessary to install a printer driver in a computer.

Printer Driver	Compliant OS
PCL Printer Driver	Windows 2000 Professional SP4 later Windows XP Home Edition SP2 later Windows XP Professional SP2 later Windows Server 2003 Standard Edition SP1 later Windows Vista Windows Server 2008 Windows 7
	Windows XP Professional x64 Edition Windows Server 2003 x64 Edition Windows Vista x64 Edition Windows Server 2008 x64 Edition Windows 7 x64 Edition
PostScript PPD Printer Driver	Windows 2000 Professional SP4 later Windows XP Home Edition SP2 later Windows XP Professional SP2 later Windows Server 2003 Standard Edition SP1 later Windows Vista Windows Server 2008 Windows 7
	Windows XP Professional x64 Edition Windows Server 2003 x64 Edition Windows Vista x64 Edition Windows Server 2008 x64 Edition Windows 7 x64 Edition
	Mac OS X v10.3x - v10.5x (Including Power PC, Intel PC) Linux
PS Plug-in Driver	Windows 2000 Professional SP4 later Windows XP Home Edition SP2 later Windows XP Professional SP2 later Windows Server 2003 Standard Edition SP1 later Windows Vista Windows Server 2008 Windows 7 Mac OS X
	Windows XP Professional x64 Edition Windows Server 2003 x64 Edition Windows Vista x64 Edition Windows Server 2008 x64 Edition Windows 7 x64 Edition
	Mac OS X v10.3x - v10.5x (Including Power PC, Intel PC)

**Note**

*Refer to "Installation of the printer driver (Windows) (Manual installation using the Add Printer wizard)" on Page 4-1 and "Installation of the printer driver (Macintosh)" on Page 5-1 for more information about installation of printer driver.*

*Refer to the "User's Guide (PostScript3 Plug-in Driver)" for more information about Plug-in Driver.*

## 2.2 Composition of a product

This image controller is equipped with an Ethernet compatible network port and a USB port (USB 2.0).

### 2.2.1 Memory

The image controller is equipped with 2GB memory by default.

### 2.2.2 Other options

The following options installed on the printer enables variable functions.

- Paper Source option (PF-702/PF-703) enables to select Tray 3 - Tray 8.
- Installing the Stapler (FS-521), Saddle Kit (SD-506) or Multi Folder (FD-503) enables to use “Staple”, “Center Staple and Fold (SD-506 only)” and “Fold ” function.
- Installing the Multi Folder (FD-503) or Multi Punch (GP-501) enables to use the punch functions.
- Installing the Large PI (PF-703(PI)) enables to select “Cover from Post Inserter”.
- Saddle Kit (SD-506) enables to select “Center Staple and Fold + Trim” function.
- Stacker (LS-505) enables to stack of a lot of output papers.
- Installing the Perfect Binder (PB-502/503) allows you to make a roll-up bookbinding.



#### **Note**

*Installing various options built in the copier properly on the printer driver allows you to use a variety of printing functions shared by the copier.*

## 2.3 Connections of the Image Controller

You can use the copier as a printer by connecting image controller to a computer (using with USB connection) or a network (using with Ethernet connection).

### 2.3.1 Ethernet Connection

You can also connect the copier to computers supporting Ethernet.

Several alternatives can be considered in the Ethernet connection. In any of them, you must set up the printer driver in each computer after configuring the network (such as TCP/IP settings) for the image controller or the computers.

The following print patterns are shown here as examples.

- SMB printing, lpr/lpd printing, Direct printing, Raw (Port9100, Setting can be made for up to 6 ports) printing, Web service print
- Printing in which AppleTalk, Bonjour from Macintosh is used.
- IPP (Internet Printing Protocol) printing
- Printing in which Novell NetWare is used.

### 2.3.2 USB Connection

You can print a document by connecting Image Controller to a computer with a cable.



**Note**

*Direct Print is unavailable via a USB memory.*

## 2.4 Product Specifications

### Type

Type: Built-in box type for the KONICA MINOLTA Printer/Copier

### Functions

Resolution:	600 x 600 dpi 1200 x 1200 dpi
Gradation:	binary
Printable Area:	Standard: Margin 3.18 mm (left, right, top and bottom without variation) Non-standard paper: Width: 95-314mm Length: 133-463mm
No. of Print:	1 to 9999
Continuous print speed:	bizhub PRO 1200/1200P: 120 ppm (A4, 8.5 x 11) / (From the 2nd and succeeding copies) bizhub PRO 1051: 105 ppm (A4, 8.5 x 11) / (From the 2nd and succeeding copies)
Page Description Language:	PCL5e/6, PostScript 3
Direct Print compatible:	PDF/TIFF/PS/PCL/Text/PPML
MetaFrame operating environments:	The operations of this printer driver is checked only in the following environments. Server OS: Windows 2000 server/ Server 2003/Server 2008 MetaFrame: Citrix® MetaFrame XP® Presentation Server, Feature Release 3 Citrix® MetaFrame® Presentation Server 3.0 Client OS: Windows XP/Vista/7 ICAClient: ICA32bit <ul style="list-style-type: none"> <li>For operations in the configuration other than the above, contact your service representative.</li> </ul>
Printer Driver:	Printer driver for Windows Printer driver for Mac OS X Printer driver for Linux
<b>Network Functions</b>	
Protocols:	TCP/IP, IPX/SPX, EtherTalk
Compliant OS (NOS):	Novell NetWare (3.x, 4.x-6), Windows 2000, Windows XP/Vista/7/Server 2003/Server 2008, Mac OS X
Multiple Protocols:	Automatic selection

Printing Method:	SMB printing (TCP/IP) / LPD/LPR (TCP/IP) / RAW (Port9100, Setting can be made for up to 6 ports) / IPP (TCP/IP), Web service print (TCP/IP), Bonjour (TCP/IP), Pserver (IPX/SPX) / NPrinter/RPrinter (IPX/SPX) / AppleTalk (EtherTalk)
Compliant Web Browser:	Microsoft Internet Explorer 6 or later* recommended (JavaScript enabled) Mozilla FireFox 1.0 or later (JavaScript enabled, Cookies enabled) Netscape Navigator 7.02 or later (JavaScript enabled, Cookies enabled) Flash Player Ver 7.0 or later (In case of seeing in Flash form) * Microsoft XML Parser (MSXML)3.x must be installed when using Internet Explorer 5.5.

**Paper Type**

Paper:	Same as the copier
Paper Type:	Same as the copier

**Machine Data**

CPU:	Pentium M 2.0GHz (Memory Access Speed 533MHz)
System Memory:	2GB
Power:	Obtain from main body printer
Network Interface:	Ethernet (1000BASE-T / 100Base-TX / 10Base-T)

**Operating Environment**

Temperature:	Same as the copier
Humidity:	Same as the copier

## 2.4.1 Restrictive Conditions

Although the Weekly Timer function of the main body printer is available in the Printer mode, the power is not turned off until the data output is finished when print data remains in the Image memory.

**Note**

*Specifications are subject to change without notice.*

## 3 Installation of the printer driver (Windows) (Easy installation using the installer)

This installer automatically detects whether this machine is connected via USB or on the same TCP/IP network as the computer, then installs the required printer driver. You can also manually specify the connection destination during installation.



### Note

*The printer driver which can be installed as described in this section is “PCL Driver” only.*

*Refer to “Compliant OS” on page 4-1 for more information about compliant OS.*

*Refer to “Installation of the printer driver (Windows) (Manual installation using the Add Printer wizard)” on page 4-1 when installing the printer driver with “PostScript PPD” or refer to “Windows Vista/Server 2008” on page 4-15 when installing the printer driver manually.*

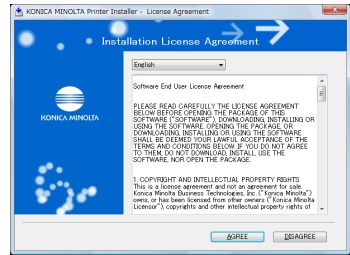
*Refer to “Mac OS X (10.3/10.4/10.5)” on page 5-1 when installing to Macintosh.*

*Refer to “Procedure for installation with Linux” on page 14-4 when installing to Linux.*

### Installation of the printer driver

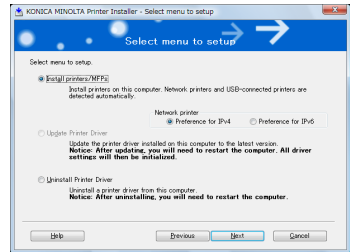
- 1 Insert the “Driver CD” into the CD-ROM tray of the personal computer.
  - Check that the installer starts up, and then continue with step 2.
  - If the installer does not start up, open the printer driver folder on the CD-ROM, double-click “Setup.exe” for the 32bit editions OS and “Setup64.exe” for the 64bit editions OS, and then proceed to Step 3.
  - When a screen relevant to “User account control” is displayed while in installation in Windows Vista/7/Server 2008, click [Allow] or [Continue].
- 2 Click [Printer Install] - [PCL].

- 3 Read through the License Agreement and click [AGREE].
- Language for the display can be changed in the pull-down menu on the lower left side of the window.
  - Windows Vista screens are indicated here for description.



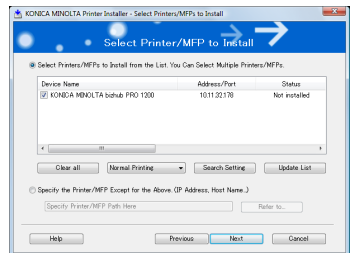
- 4 Select [Install printers/MFPs] and click [Next].

[Select Printers/MFPs to Install] window appears.



- 5 Select and install a copier. A copier can be selected by either way of two as shown below.

- Selection from list detected  
When a copier is detected, for instance, the driver name (KONICA MINOLTA1200/1051PCL) is displayed on the screen as shown on the right. Then select [Select Printers/MFPs to Install] from the List. You can select Multiple Printers/MFPs, turn the check box on the left of the driver name to ON and click [Next].
- [Confirm Installation Settings] window is displayed.
- If no copier is detected, If the printer is not detected, turn off this machine, then on again. When turning off the power, then on again, wait at least 10 seconds before turning it on again. Otherwise, this machine may not function properly.

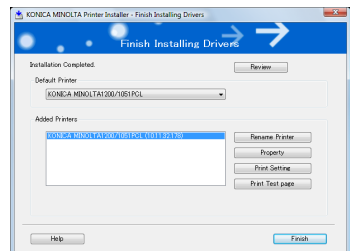
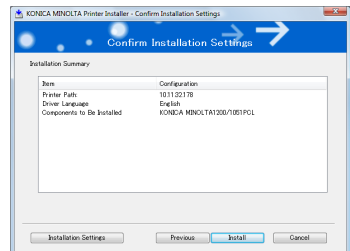
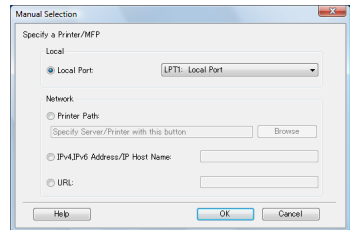
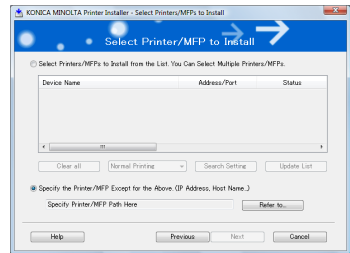


- If the connection of this machine cannot be recognized, or when specifying manually:  
To specify a unit manually, select [Specify the Printer/MFP Except for the Above (IP Address, Host Name...)] and click the [Refer to...].
- [Manual Selection] window appears.
- Select either [Local Port], [Printer Path], [IPv4, IPv6 Address/IP Host Name] or [URL] and enter information as required. Then click the [OK].
- In Windows 7, a shared printer cannot be selected from the installer. To configure the shared printer, install the shared printer in [Add a printer] in the [Devices and Printers] window.
- [Select Printers/MFPs to Install] window appears again. Click the [Next].
- [Confirm Installation Settings] window is appears.

6 Installation setting condition is displayed. Check the setting and click [Install].

- The printer driver is installed and the [Finish Installing Drivers] window appears.
- If the [Windows Logo Testing], [Digital Signature] or [Hardware Installation] dialog box appears, click the [Continue] or [Install this driver software anyway].

7 Click [Finish].  
Installation is completed.





**Detail**

*Click the buttons as follows:*

*To check the details of the printer driver again: ..... [Review]*

*To change the printer name: ..... [Rename Printer]*

*To see the property of printer: ..... [Property]*

*To see the printing setup: ..... [Print Setting]*

*To see the test page: ..... [Print Test Page]*

## 4 Installation of the printer driver (Windows) (Manual installation using the Add Printer wizard)

The explanation here is given of how to install a Windows printer driver using the additional function of a Windows standard printer, without using an installer for a Windows compatible computer.

### 4.1 Compliant OS

The printer driver is can be used on the following OS:

Windows	Printer Driver
Windows 7	<ul style="list-style-type: none"><li>• "Windows 7" on Page 4-2</li></ul>
Windows Vista/Server 2008	<ul style="list-style-type: none"><li>• "Windows Vista/Server 2008" on Page 4-15</li></ul>
Windows XP/Server 2003	<ul style="list-style-type: none"><li>• "Windows XP/Server 2003" on Page 4-28</li></ul>
Windows 2000	<ul style="list-style-type: none"><li>• "Windows 2000" on Page 4-37</li></ul>

The Driver CD contains the PCL printer driver and the PostScript PPD printer driver.

## 4.2 Windows 7

### 4.2.1 Network connection (Port9100/LPR/SMB)

For Windows 7, an installation can be made either by searching a printer on the network or creating a printer port.

#### TCP/IP setting for this machine

Specify the IP address on TCP/IP Setting of this machine.

For details on specifying the IP address of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### RAW port number setting for the copier

To use Port9100 printing, enable the RAW port number (9100 at default), in the TCP/IP Setting screen of the copier.

For details on specifying the RAW port number of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### LPD setting for the copier

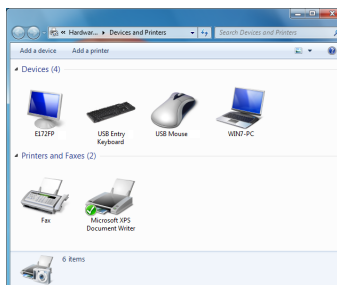
To use LPR printing, enable LPD print on "LPD Setting" of the copier.

For details on the LPD settings of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### Printer driver installation using the Add Printer Wizard

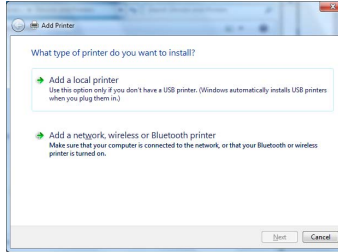
✓ The installation should be performed by a qualified system administrator or printer administrator.

- 1 Set the Driver CD in the CD-ROM drive.
- 2 Click [Start] - [Devices and Printers].
- 3 Click [Add a printer].



[Add Printer] window appears.

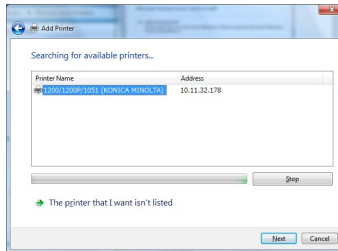
#### 4 Select [Add a network, wireless or Bluetooth printer].



The connected printers are found.

#### 5 Select this machine from the list, and then click the [Next].

- When using the LPR/Port9100 protocol, select the printer having its IP address.
- When using an SMB connection, select the printer having its “\\Net-BIOS name\print service name”.
- It may take some time to finish searching the entire list of printers.



#### 6 Click [Have Disk].

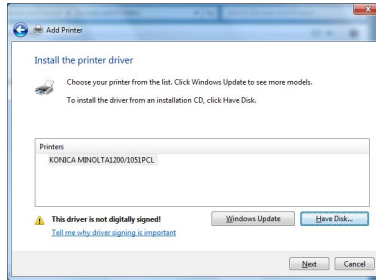
#### 7 Click [Browse].

#### 8 Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].

- Select printer driver (PCL, PostScript PPD) to be used.
- For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.

#### 9 Click [OK].

Printers list window appears.

**10** Click [Next].**11** Follow the on-screen instructions.

- If the [Windows Logo Testing] or [Digital Signature] dialog box appears, click the [Continue] or [Yes].

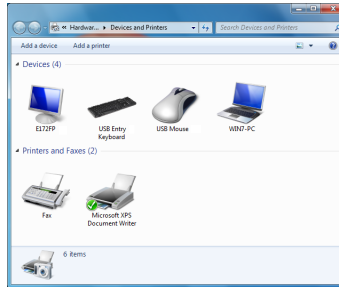
**12** Click [Finish].**13** When installation is complete, make sure that the icon of the installed printer appears in the [Devices and Printers] window.**14** Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

**Printer driver installation by creating a port using the Add Printer Wizard**

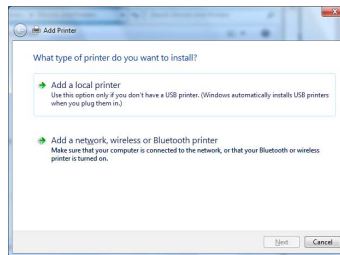
- ✓ The installation should be performed by a qualified system administrator or printer administrator.

- 1 Insert the Driver CD into the CD-ROM drive of the computer.
- 2 Click the [Start], and then click [Devices and Printers].
- 3 Click [Add a printer] from the toolbar.



[Add Printer] window appears.

- 4 Click [Add a local printer].



The [Choose a printer port] dialog box appears.

- 5 Click [Create a new port], and select the port type.
  - When using an LPR/Port9100 connection, select “Standard TCP/IP Port”.
  - When using an SMB connection, select “Local Port”.
- 6 Click the [Next].
- 7 Specify the IP address and port.
  - When using an LPR/Port9100 connection, select “TCP/IP Device”, and then enter the IP address.

- When using an SMB connection, enter “\\NetBIOS name\print service name” in the “Enter a port name” box.
- Enter the same NetBIOS name and print service name those appear in “Print Setting” in the SMB Setting screen of the copier.

**8** Click the [Next].

- If the Additional Port Information Required dialog box appears, go to step 9
- If the Install the printer driver dialog box appears, go to step 12.

**9** Select [Custom], and then click the [Settings].

**10** Change the settings according to the port, and then click the [OK].

- For a Port9100 connection, select “RAW”, and then enter the RAW port number (9100 at default) in the “Port Number” box.
- For an LPR connection, select “LPR”, and then enter “Print” in the “Queue name” box.
- The information entered here is case-sensitive.

**11** Click the [Next].

The Install the printer driver dialog box appears.

**12** Click the [Have Disk].

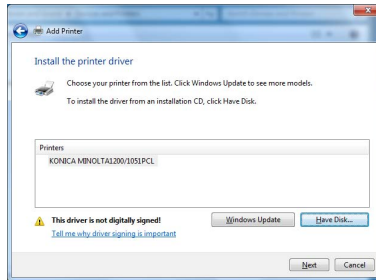
**13** Click the [Browse].

**14** Specify the desired folder on the CD-ROM that contains the printer driver, and then click the [Open].

- Select printer driver (PCL, PostScript PPD) to be used.
- For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.

**15** Click the [OK].

The “Printers” list appears.

**16** Click the [Next].**17** Follow the on-screen instructions.

- If the [Windows Logo Testing] or [Digital Signature] dialog box appears, click the [Continue] or [Yes].

**18** Click the [Finish].**19** After installation is completed, make sure that the icon of the installed printer appears in the [Devices and Printers] window.**20** Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

## 4.2.2 Network connection (IPP or IPPS)

In the case of IPP print, set a port while in the installation of a printer driver.

### TCP/IP setting for this machine

Specify the IP address on TCP/IP Setting of this machine.

For details on specifying the IP address of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

### Specifying the IPP settings for the copier

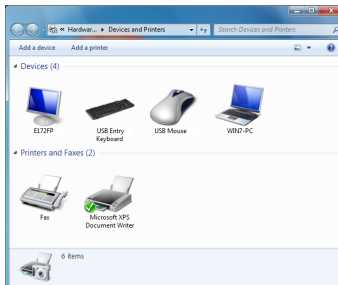
Enable IPP printing in "IPP Setting" of the copier.

To use IPPS printing, the certificate must be registered to this machine. For details, refer to the User's Guide [POD Administrator's Reference or Main Body].

### Printer driver installation using the Add Printer wizard

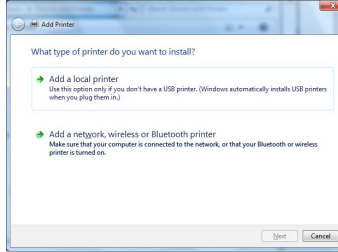
✓ The installation should be performed by a qualified system administrator or printer administrator.

- 1 Insert the Driver CD into the CD-ROM drive of the computer.
- 2 Click the [Start], and then click [Devices and Printers].
- 3 Click [Add a printer] from the toolbar.



The Add Printer window appears.

- 4 Click [Add a network, wireless or Bluetooth printer].



The connected printers are found.

- 5 In the window showing the search results, click [The printer that I want isn't Listed].
- 6 In the [Select a shared printer by name] box, enter the URL for the copier in the following format, and then click the [Next].
  - `http://(IP_address_of_machine)/ipp`  
Example: If the IP address of the copier is 192.168.1.20, enter `http://192.168.1.20/ipp`.
  - When specifying to use IPPS printing, enter “`https://(IP_address_of_machine)/ipp`”.The window for confirming the user name and password may appear in the course of installation.
- 7 Click the [Have Disk].
- 8 Click the [Browse].
- 9 Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 10 Click the [OK].

The “Printer” list appears.
- 11 Click the [Next].
- 12 Follow the on-screen instructions.

- If the [Windows Logo Testing] or [Digital Signature] dialog box appears, click the [Continue] or [Yes].

**13** Click the [Finish].

**14** When the installation is completed, make sure that the icon of the installed printer appears in the [Devices and Printers] window.

**15** Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

### 4.2.3 Network connection (Web Service print)

In Windows 7, Web Service print-supporting printers on the network can be located and installed.

#### TCP/IP setting for this machine

Specify the IP address on TCP/IP Setting of this machine.

For details on specifying the IP address of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### Web Service setting for the copier

Enable Web Service printing in "Web Service Setting" of the copier.

For details on specifying the Web Service Setting of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].



#### Detail

*You may be possible to skip step 6 to 8 to install faster by selecting [No let me choose what to do] - [Never install driver software from Windows Update] in the [Hardware] tab in the [System Properties] screen.*

#### Install a printer through the network window

✓ The installation should be performed by a qualified system administrator or printer administrator.

- 1 Turn on the power of the machine while it is connected to the network.
  - To allow printers to be detected during installation, the machine must be connected to the network.
- 2 To use the Web Service print, check that "Network discovery" is enabled in "Network and Sharing Center" - "Change advanced sharing settings" on the computer.
- 3 Insert the Driver CD into the CD-ROM drive of the computer.
- 4 Select [Start] - [Control Panel] - [Network and Internet], and click [View computers and devices on the network] under [Network and Sharing Center].

The Network window appears, showing the computers and devices on the network.
- 5 Right-click the device name, and then select [Install].  
[Driver Software Installation] dialog box appears.

- 6** Click [Skip obtaining driver software from Windows Update].
- 7** Click [Yes].
- 8** Click [Close].
- 9** Right-click the printer icon in the [Devices and Printers] window, and select [Properties].
- 10** Select the [Hardware] tab, select [WSD Print Device] in which [Type] is displayed as [Other devices] and click [Properties].
- 11** Click [Change settings].
- 12** Select [Driver] tab in the [WSD Print Device Properties] window, click [Update Driver].
- 13** Click [Browse my computer for driver software].
- 14** Click [Browse].
- 15** Specify the desired folder on the Driver CD that contains the printer driver, and then click the [OK].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 16** Click [Next].
  - Installation is started.
  - If the Verify the publisher dialog box of [Windows Security] appears, click [Install this driver software anyway].
- 17** Click [Close] when the installation is completed.
- 18** Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

## 4.2.4 Local connection

The printer driver can be installed with plug-and-play.



### Detail

*You may be possible to skip step 3 to 5 to install faster by selecting [No let me choose what to do] - [Never install driver software from Windows Update] in the [Hardware] tab in the [System Properties] screen.*

- 1 Connect a USB cable to a USB port (square type) at the rear of the copier and a computer, and then start up the computer.  
[Driver Software Installation] dialog box appears.
- 2 Click [Click here for status].
- 3 Click [Skip obtaining driver software from Windows Update].
- 4 Click [Yes].
- 5 Click [Close].
- 6 Right-click the printer icon in the [Devices and Printers] window, and select [Properties].
- 7 Select the [Hardware] tab, check that [Type] is displayed as [Other devices] and click [Properties].
- 8 Click [Change settings].
- 9 Select [Driver] tab, and click [Update Driver].
  - Repeat the steps from the step 5 if you cannot click [Update Driver].
- 10 Click [Browse my computer for driver software].
- 11 Click [Browse].
- 12 Specify the desired folder on the Driver CD that contains the printer driver, and then click the [OK].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.

- 13** Click [Next].
  - Installation is started.
  - If the Verify the publisher dialog box of [Windows Security] appears, click [Install this driver software anyway].
- 14** Click [Close] when the installation is completed.
- 15** Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

## 4.3 Windows Vista/Server 2008

### 4.3.1 Network connection (Port9100/LPR/SMB)

For Windows Vista/Server 2008, an installation can be made either by searching a printer on the network or creating a printer port.

#### **TCP/IP setting for this machine**

Specify the IP address on TCP/IP Setting of this machine.

For details on specifying the IP address of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### **RAW port number setting for the copier**

To use Port9100 printing, enable the RAW port number (9100 at default), in the TCP/IP Setting screen of the copier.

For details on specifying the RAW port number of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### **LPD setting for the copier**

To use LPR printing, enable LPD print on "LPD Setting" of the copier.

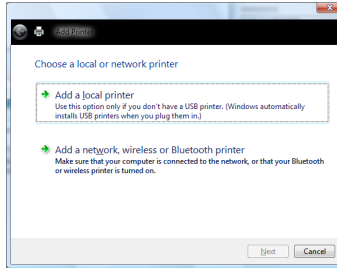
For details on the LPD settings of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### **Printer driver installation using the Add Printer Wizard**

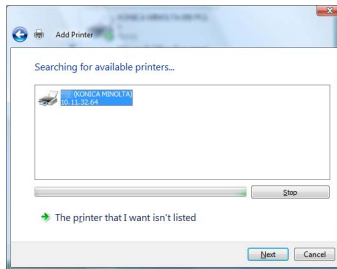
✓ The installation should be performed by a qualified system administrator or printer administrator.

- 1 Set the "Driver CD" in the CD-ROM drive.
- 2 Click [Start] - [Control Panel].
- 3 Click [Hardware and Sound], and click [Printers].
  - If Control Panel is displayed with Classic View, double-click "Printers".
- 4 Click [Add a printer].

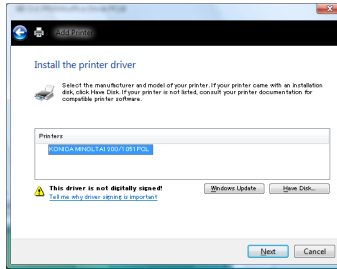
- 5 Select [Add a network, wireless or Bluetooth printer].



- 6 Select this machine from the list, and then click the [OK].
- When using the LPR/Port9100 protocol, select the printer having its IP address.
  - When using an SMB connection, select the printer having its “\\Net-BIOS name\print service name”.
  - It may take some time to finish searching the entire list of printers.



- 7 Click [Have Disk].
- 8 Click [Browse].
- 9 Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
- Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 10 Click [OK].
- Printers list window appears.

**11** Click [Next].**12** Follow the on-screen instructions.

- If the Windows Logo Testing or Digital Signature dialog box appears, click the [Continue] or [Yes].

**13** Click [Finish].**14** When installation is complete, make sure that the icon of the installed printer appears in the Printers window.**15** Remove the CD-ROM from the CD-ROM drive.

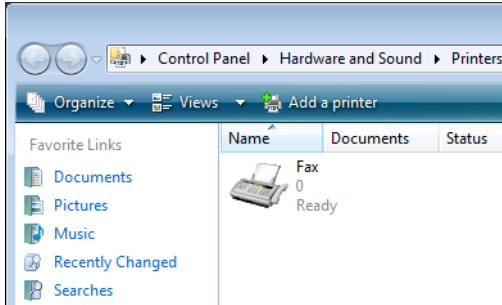
This completes the printer driver installation.

**Printer driver installation by creating a port using the Add Printer Wizard****1** Insert the Driver CD into the CD-ROM drive of the computer.**2** Click the [Start] button, and then click “Control Panel”.**3** From “Hardware and Sound”, click “Printer”.

- If Control Panel is displayed with Classic View, double-click “Printers”.

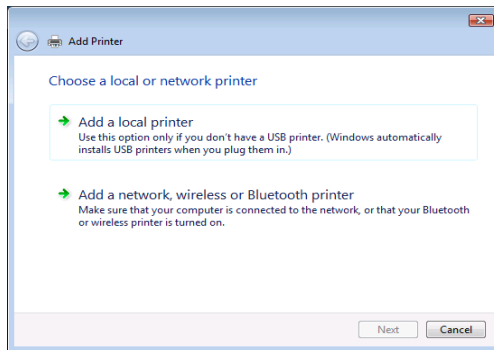
The Printers window appears.

- 4 Click “Add a printer” from the toolbar.



The Add Printer window appears.

- 5 Click “Add a local printer”.



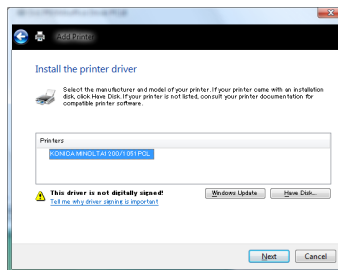
The Select a Printer Port dialog box appears.

- 6 Click “Create a new port”, and select the port type.
- When using an LPR/Port9100 connection, select “Standard TCP/IP Port”.
  - When using an SMB connection, select “Local Port”.
- 7 Click the [Next].
- 8 Specify the IP address and port.
- When using an LPR/Port9100 connection, select “TCP/IP Device”, and then enter the IP address.
  - When using an SMB connection, enter “\\NetBIOS name\print service name” in the “Enter a port name” box.
  - Enter the same NetBIOS name and print service name those appear in “Print Setting” in the SMB Setting screen of the copier.

- 9 Click the [Next].
  - If the Additional Port Information Required dialog box appears, go to step 10.
  - If the Install the printer driver dialog box appears, go to step 13.
- 10 Select “Custom”, and then click the [Settings].
- 11 Change the settings according to the port, and then click the [OK].
  - For an LPR connection, select “LPR”, and then enter “Print” in the “Queue name” box.
  - For a Port9100 connection, select “RAW”, and then enter the RAW port number (9100 at default) in the “Port Number” box.
  - The information entered here is case-sensitive.
- 12 Click the [Next].

The Install the printer driver dialog box appears.
- 13 Click the [Have Disk].
- 14 Click the [Browse].
- 15 Specify the desired folder on the CD-ROM that contains the printer driver, and then click the [Open].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 16 Click the [OK].

The “Printers” list appears.
- 17 Click the [Next].



- 18** Follow the on-screen instructions.
  - If the User Account Control window appears, click the [Continue].
  - If the Verify the publisher dialog box of Windows Security appears, click "Install this driver software anyway".
- 19** Click the [Finish].
- 20** After installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 21** Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

### 4.3.2 Network connection (IPP or IPPS)

In the case of IPP print, set a port while in the installation of a printer driver.

#### TCP/IP setting for this machine

Specify the IP address on TCP/IP Setting of this machine.

For details on specifying the IP address of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### Specifying the IPP settings for the copier

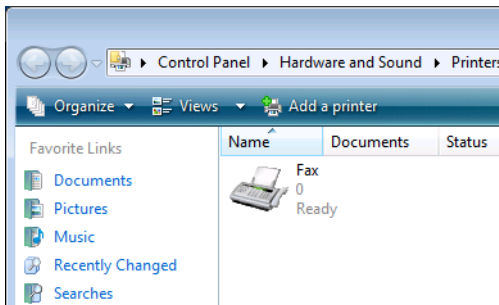
Enable IPP printing in "IPP Setting" of the copier.

To use IPPS printing, the certificate must be registered to this machine. For details, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### Printer driver installation using the Add Printer wizard

✓ The installation should be performed by a qualified system administrator or printer administrator.

- 1 Insert the Driver CD into the CD-ROM drive of the computer.
- 2 Click the [Start] button, and then click "Control Panel".
- 3 From "Hardware and Sound", click "Printer".
  - If Control Panel is displayed with Classic View, double-click "Printers".The Printers window appears.
- 4 Click "Add a printer" from the toolbar.



The Add Printer window appears.

- 5 Click "Add a network, wireless or Bluetooth printer".

The connected printers are found.

- 6** In the window showing the search results, click “The printer that I want isn’t Listed”.
- 7** In the “Select a shared printer by name” box, enter the URL for the copier in the following format, and then click the [Next].
  - `http://(IP_address_of_machine)/ipp` Example: If the IP address of the copier is 192.168.1.20, enter `http://192.168.1.20/ipp`.
  - When specifying to use IPPS printing, enter “`https://(IP_address_of_machine)/ipp`”. The window for confirming the user name and password may appear in the course of installation.
- 8** Click the [Have Disk].
- 9** Click the [Browse].
- 10** Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 11** Click the [OK].

The “Printer” list appears.
- 12** Click the [Next].
- 13** Follow the on-screen instructions.
  - If the “User Account Control” window appears, click the [Continue].
- 14** Click the [Finish].
- 15** When the installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 16** Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

### 4.3.3 Network connection (Web Service print)

In Windows Vista/Server 2008, Web Service print-supporting printers on the network can be located and installed.

#### TCP/IP setting for this machine

Specify the IP address on TCP/IP Setting of this machine.

For details on specifying the IP address of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### Web Service setting for the copier

Enable Web Service printing in "Web Service Setting" of the copier.

For details on specifying the Web Service Setting of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### Install a printer through the network window

- ✓ The installation should be performed by a qualified system administrator or printer administrator.
- 1** Turn on the power of the machine while it is connected to the network.
  - To allow printers to be detected during installation, the machine must be connected to the network.
- 2** To use the Web Service print, check that "Network discovery" is enabled in "Network and Sharing Center" on the computer.
- 3** Insert the Driver CD into the CD-ROM drive of the computer.
- 4** Click the [Start], and then click "Network".

The Network window appears, showing the computers and devices on the network.
- 5** Select the device name of the copier, and then click "Install" from the toolbar.

The selected Web Service print-supporting printer is found, and then the Found New Hardware Wizard dialog box appears.
- 6** Click [Locate and install driver software (recommended)].

A screen for confirming the search method appears.
- 7** Click [Do not search online].
- 8** Click [Browse my computer for driver software (advanced)].

- 9 Click [Browse].
- 10 Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 11 Click the [OK].

The “Printer” list appears.
- 12 Click the [Next].
- 13 Follow the on-screen instructions.
  - If the “User Account Control” window appears, click the [Continue].
- 14 Click the [Finish].
- 15 When the installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 16 Remove the CD-ROM from the CD-ROM drive.

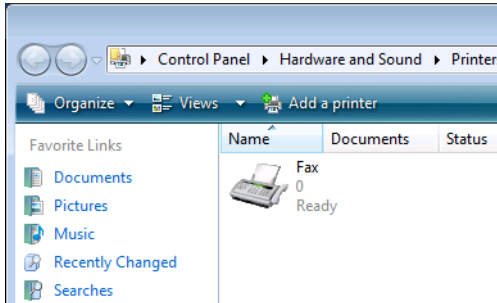
This completes the printer driver installation.

#### **Specify an IP address in [Add a printer] to install a printer driver**

- ✓ The installation should be performed by a qualified system administrator or printer administrator.
- 1 Turn on the power of the machine while it is connected to the network.
    - To allow printers to be detected during installation, the machine must be connected to the network.
  - 2 To use the Web Service print, check that “Network discovery” is enabled in “Network and Sharing Center” on the computer.
  - 3 Insert the Driver CD into the CD-ROM drive of the computer.
  - 4 Click the [Start] button, and then click “Control Panel”.
  - 5 From “Hardware and Sound”, click “Printer”.
    - If Control Panel is displayed with Classic View, double-click “Printers”.

The Printers window appears.

- 6** Click “Add a printer” from the toolbar.



The Add Printer window appears.

- 7** Click [Add a local printer].
- 8** Click [Create a new port].
- Select [Standard TCP/IP].
- 9** Click [Next].
- 10** Select [Web Service Device] and enter the IP Address.
- A printer is searched that is compatible with the Web service print of an IP address entered, and then a the Found New Hardware Wizard dialog box appears.
- 11** Click [Locate and install driver software (recommended)].
- 12** Click [Do not search online].
- 13** Click [Browse my computer for driver software (advanced)].
- 14** Click [Browse].
- 15** Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
- Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 16** Click the [OK].

The “Printer” list appears.

- 17** Click the [Next].
- 18** Follow the on-screen instructions.
  - If the “User Account Control” window appears, click the [Continue].
- 19** Click the [Finish].
- 20** When the installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 21** Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

#### 4.3.4 Local connection

When this machine is connected via a USB port, the printer driver can be installed with plug-and-play.

- 1** Connect a USB cable to a USB port (square type) at the rear of the copier and a computer, and then start up the computer.
- 2** Turn on the main power of the copier.
  - The Found New Hardware Wizard dialog box appears.
  - If the Found New Hardware Wizard dialog box does not appear, turn off the copier, then on again.
  - When turning off the power, then on again, wait at least 10 seconds before turning it on again. Otherwise, this machine may not function properly.
- 3** Click “Locate and install the driver software (recommended)”.
  - A dialog box that requests a disk (CD-ROM) appears.
  - If you don’t have the disk (CD-ROM), click [I don’t have the disc. Show me other options.].
  - In the subsequent window, select [Browse my computer for driver software (advanced)] to specify the desired folder in which the printer driver is located.
- 4** Set the “Driver CD” in the CD-ROM drive.
- 5** Select printer driver (PCL, PostScript PPD) to be used and click [Next].

- For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 6 Click [Next] and follow the on-screen instructions.
    - If the Verify the publisher dialog box of [Windows Security] appears, click [Install this driver software anyway].
  - 7 Click the [Finish].
  - 8 When the installation is completed, make sure that the icon of the installed printer appears in the Printers window.
  - 9 Remove the CD-ROM from the CD-ROM drive.  
This completes the printer driver installation.

## 4.4 Windows XP/Server 2003

### 4.4.1 Network connection (LPR/Port9100)

When using the LPR/Port9100 printing, specify the port during the printer driver installation process.

#### **TCP/IP setting for this machine**

Specify the IP address on TCP/IP Setting of this machine.

For details on specifying the IP address of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### **RAW port number setting for the copier**

To use Port9100 printing, enable the RAW port number (9100 at default), in the TCP/IP Setting screen of the copier.

For details on specifying the RAW port number of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### **LPD setting for the copier**

To use LPR printing, enable LPD print on "LPD Setting" of the copier.

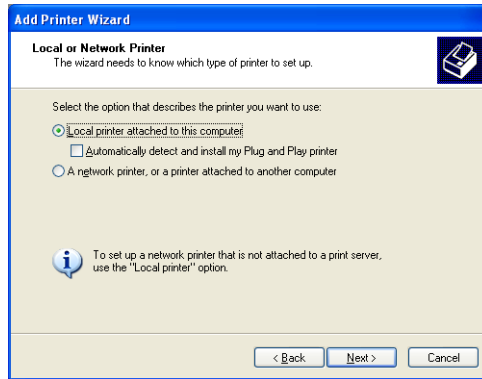
For details on the LPD settings of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### **Printer driver installation using the Add Printer Wizard**

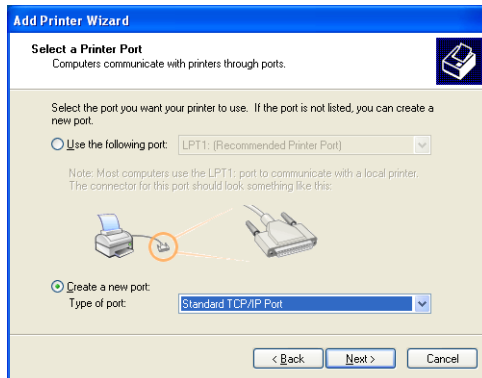
- ✓ The installation should be performed by a qualified system administrator or printer administrator.

- 1 Insert the Driver CD into the CD-ROM drive of the computer.
- 2 Click the [Start], and then click "Printers and Faxes".
  - If "Printers and Faxes" does not appear in the Start menu, open Control Panel from the Start menu, select "Printers and Other Hardware", and then click "Printers and Faxes".
- 3 For Windows XP, click "Add a printer" on the "Printer Tasks" menu.
  - For Windows Server 2003, double-click the "Add Printer" icon. The Add Printer Wizard starts.
- 4 Click the [Next].
- 5 Select "Local printer attached to this computer", and then click the [Next].

- Clear the “Automatically detect and install my Plug and Play printer” check box.



- 6 Click “Create a new port”, and select “Standard TCP/IP Port” for “Type of port:”.



- 7 Click the [Next].

The Add Standard TCP/IP Printer Port Wizard starts.

- 8 Click the [Next].

- 9 In the “Printer Name or IP address” box, enter the IP address for this machine, and then click the [Next].

- If the Additional Port Information Required dialog box appears, go to step 10.
- If the Finish dialog box appears, go to step 13.

- 10 Select “Custom”, and then click the [Settings].

- 11** Change the settings according to the port, and then click the [OK].
  - For an LPR connection, select “LPR”, and then enter “Print” in the “Queue name” box.
  - For a Port9100 connection, select “RAW”, and then enter the RAW port number (9100 at default) in the “Port Number” box.
  - The information entered here is case-sensitive.
- 12** Click the [Next].
- 13** Click the [Finish].

The Add Printer Wizard appears.
- 14** Click the [Have Disk].
- 15** Click the [Browse].
- 16** Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 17** Click the [OK].

The “Printer” list appears.
- 18** Click the [Next].
- 19** Follow the on-screen instructions.
  - If the “User Account Control” window appears, click the [Continue].
- 20** Click the [Finish].
- 21** When the installation is completed, make sure that the icon of the installed printer appears in the Printers and Faxes window.
- 22** Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

## 4.4.2 Network connection (SMB)

When using the SMB printing, specify the port by specifying the printer during the printer driver installation process. Printers can be specified either by searching printers on the network, or by entering the printer name.

### TCP/IP setting for this machine

Specify the IP address on TCP/IP Setting of this machine.

For details on specifying the IP address of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

### SMB setting for the copier

In "Print Setting" in the SMB Setting screen of the copier, specify the NetBIOS name, print service name, and workgroup.

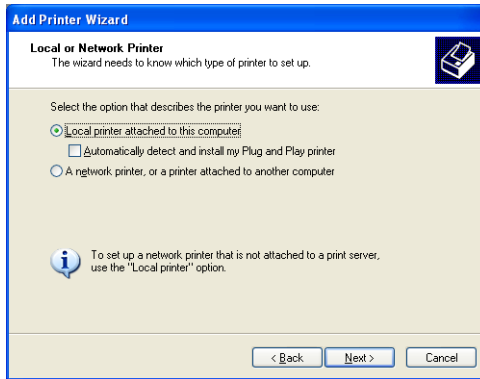
For details on the SMB settings of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

### Printer driver installation by specifying printers using the Add Printer Wizard

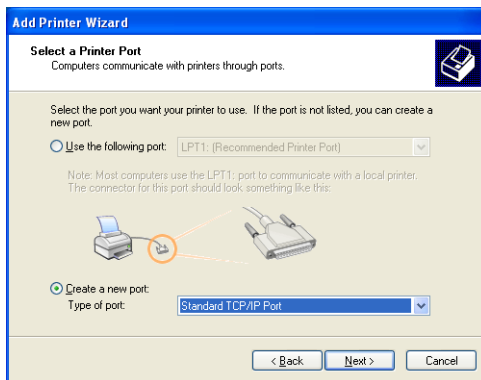
- ✓ The installation should be performed by a qualified system administrator or printer administrator.

- 1 Insert the Driver CD into the CD-ROM drive of the computer.
- 2 Click the [Start], and then click "Printers and Faxes".
  - If "Printers and Faxes" does not appear in the Start menu, open Control Panel from the Start menu, select "Printers and Other Hardware", and then click "Printers and Faxes".
- 3 For Windows XP, click "Add a printer" on the "Printer Tasks" menu.
  - For Windows Server 2003, double-click the "Add Printer" icon. The Add Printer Wizard starts.
- 4 Click the [Next].
- 5 Select "Local printer attached to this computer", and then click the [Next].

- Clear the “Automatically detect and install my Plug and Play printer” check box.



- 6 Click “Create a new port”, and select “Local Port” for “Type of port.”



- 7 In the “Enter a port name” box, enter “\\NetBIOS name\print service name”.
- 8 Click the [OK].  
The Add Printer Wizard appears.
- 9 Click the [Have Disk].
- 10 Click the [Browse].
- 11 Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
- Select printer driver (PCL, PostScript PPD) to be used.

- For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.

- 12 Click the [OK].  
The “Printer” list appears.
- 13 Click the [Next].
- 14 Follow the on-screen instructions.
  - If the “User Account Control” window appears, click the [Continue].
- 15 Click the [Finish].
- 16 When the installation is completed, make sure that the icon of the installed printer appears in the Printers and Faxes window.
- 17 Remove the CD-ROM from the CD-ROM drive.  
This completes the printer driver installation.

### 4.4.3 Network connection (IPP or IPPS)

For IPP printing, specify the port during the printer driver installation process.

#### TCP/IP setting for this machine

Specify the IP address on TCP/IP Setting of this machine.

For details on specifying the IP address of this machine, refer to the User’s Guide [POD Administrator’s Reference or Main Body].

#### Specifying the IPP settings for the copier

Enable IPP printing in “IPP Setting” of the copier.

To use IPPS printing, the certificate must be registered to this machine. For details, refer to the User’s Guide [POD Administrator’s Reference or Main Body].

#### Printer driver installation using the Add Printer wizard

- ✓ The installation should be performed by a qualified system administrator or printer administrator.

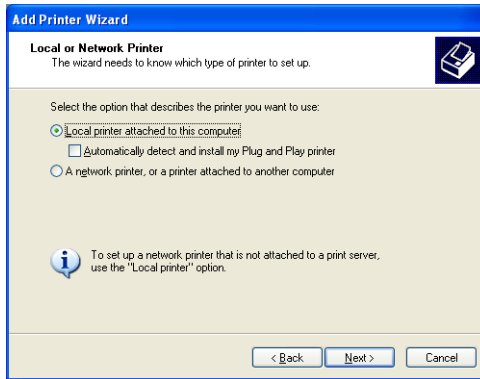
- 1 Insert the Driver CD into the CD-ROM drive of the computer.
- 2 Click the [Start], and then click “Printers and Faxes”.

- If “Printers and Faxes” does not appear in the Start menu, open Control Panel from the Start menu, select “Printers and Other Hardware”, and then click “Printers and Faxes”.

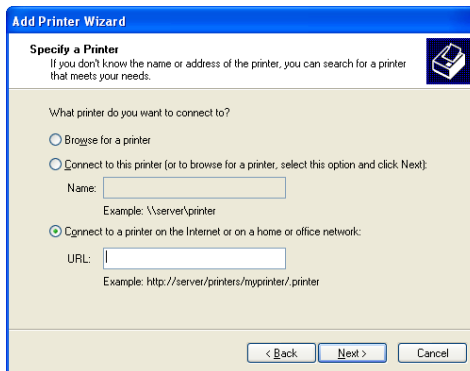
- 3** For Windows XP, click “Add a printer” on the “Printer Tasks” menu.
- For Windows Server 2003, double-click the “Add Printer” icon. The Add Printer Wizard starts.

- 4** Click the [Next].

- 5** In the Local or Network Printer dialog box, select “Network printer”, and then click the [Next].



- 6** In the Specify a Printer dialog box, select “Connect to a printer on the Internet or on a home or office network”.



- 7** In the “URL” field, enter the URL for the copier in the following format, and then click the [Next].

- [http://\(IP\\_address\\_of\\_machine\)/ipp](http://(IP_address_of_machine)/ipp) Example: If the IP address of the copier is 192.168.1.20, enter <http://192.168.1.20/ipp>.
- When setting the copier for IPPS printing, enter “[https://\(IP\\_address\\_of\\_machine\)/ipp](https://(IP_address_of_machine)/ipp)”. The window for confirming the user name and password appears in the course of installation.

**8** Click the [Have Disk].

**9** Click the [Browse].

**10** Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].

- Select printer driver (PCL, PostScript PPD) to be used.
- For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.

**11** Click the [OK].  
The “Printer” list appears.

**12** Click the [Next].

**13** Follow the on-screen instructions.

- If the “User Account Control” window appears, click the [Continue].

**14** Click the [Finish].

**15** When the installation is completed, make sure that the icon of the installed printer appears in the Printers and Faxes window.

**16** Remove the CD-ROM from the CD-ROM drive.  
This completes the printer driver installation.

#### 4.4.4 Local connection

When this machine is connected via a USB port, the printer driver can be installed with plug-and-play.

- 1 Connect a USB cable to a USB port (square type) at the rear of the copier and a computer, and then start up the computer.
- 2 Turn on the main power of the copier.
  - The Found New Hardware Wizard dialog box appears.
  - If the Found New Hardware Wizard does not start up, turn off the copier, then on again. When turning off the power, then on again, wait at least 10 seconds before turning it on again. Otherwise, this machine may not function properly.
- 3 Insert the Driver CD into the CD-ROM drive of the computer.
- 4 Select “Install from a list or specific location (Advanced)”, and then click the [Next].
  - If the Windows connect to Windows Update dialog box appears, select “NO”.
- 5 From “Search for the best driver in these locations,” select “Include this location in the search”, and then click the [Browse].
- 6 Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 7 Click the [Next] and follow the on-screen instructions.
  - If the “User Account Control” window appears, click the [Continue].
- 8 Click the [Finish].
- 9 When the installation is completed, make sure that the icon of the installed printer appears in the Printers and Faxes window.
- 10 Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

## 4.5 Windows 2000

### 4.5.1 Network connection (LPR/Port9100)

When using the LPR/Port9100 printing, specify the port during the printer driver installation process.

#### **TCP/IP setting for this machine**

Specify the IP address in the TCP/IP Setting screen of this machine.

For details on specifying the IP address of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### **RAW port number setting for the copier**

To use Port9100 printing, enable the RAW port number (9100 at default), in the TCP/IP Setting screen of the copier.

For details on specifying the RAW port number of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### **LPD setting for the copier**

To use LPR printing, enable LPD print in the LPD Setting screen of the copier.

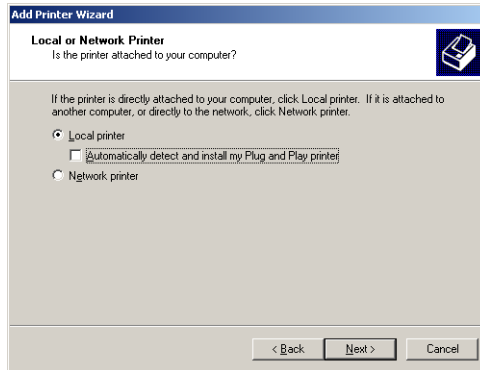
For details on the LPD settings of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

#### **Printer driver installation using the Add Printer Wizard**

✓ The installation should be performed by a qualified system administrator or printer administrator.

- 1 Insert the Driver CD into the CD-ROM drive of the computer.
- 2 Click the [Start], point to "Settings", and then click "Printers".
- 3 Double-click "Add Printer".
  - The Add Printer Wizard starts.
- 4 Click [Next].
- 5 In the dialog box for specifying the connection method, select "Local printer", and then click the [Next].

- Clear the “Automatically detect and install my Plug and Play printer” check box.



The Select a Printer Port dialog box appears.

- 6 Click “Create a new port”, and select “Standard TCP/IP Port” for “Type of port:”.
- 7 Click the [Next].
  - The Add Standard TCP/IP Printer Port Wizard starts.
- 8 Click the [Next].
- 9 In the “Printer Name or IP address” box, enter the IP address for this machine, and then click the [Next].
  - If the Additional Port Information Required dialog box appears, go to step 10.
  - If the Finish dialog box appears, go to step 13.
- 10 Select “Custom”, and then click the [Settings].
- 11 Change the settings according to the port, and then click the [OK].
  - For a Port9100 connection, select “RAW”, and then enter the RAW port number (9100 at default) in the “Port Number” box.
  - For an LPR connection, select “LPR”, and then enter “Print” in the “Queue name” box.
  - The information entered here is case-sensitive.
- 12 Click the [Next].
- 13 Click the [Finish].

The Add Printer Wizard appears.

- 14** Click the [Have Disk].
- 15** Click the [Browse].
- 16** Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 17** Click the [OK].

The “Printer” list appears.
- 18** Click the [Next].
- 19** Follow the on-screen instructions.
  - If the “User Account Control” window appears, click the [Continue].
- 20** Click the [Finish].
- 21** When the installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 22** Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

## 4.5.2 Network connection (SMB)

When using the SMB printing, specify the port by specifying the printer during the printer driver installation process.

### TCP/IP setting for this machine

Specify the IP address in the TCP/IP Setting screen of this machine.

For details on specifying the IP address of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

### SMB setting for the copier

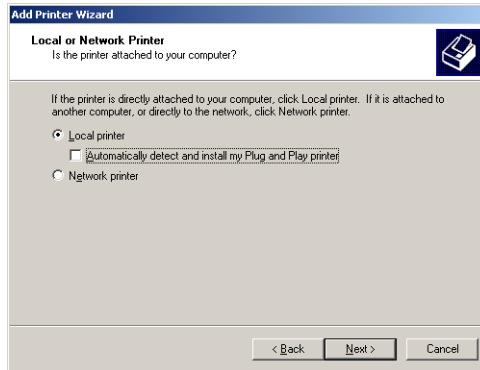
In "Print Setting" in the SMB Setting screen of the copier, specify the NetBIOS name, print service name, and workgroup.

For details on the SMB settings of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

### Printer driver installation using the Add Printer Wizard

- ✓ The installation should be performed by a qualified system administrator or printer administrator.
- 1 Insert the Driver CD into the CD-ROM drive of the computer.
- 2 Click the [Start], point to "Settings", and then click "Printers".
- 3 Double-click "Add Printer".
  - The Add Printer Wizard starts.
- 4 Click [Next].
- 5 In the dialog box for specifying the connection method, select "Local printer", and then click the [Next].

- Clear the “Automatically detect and install my Plug and Play printer” check box.



The Select a Printer Port dialog box appears.

- 6 Click “Create a new port”, and select “Standard TCP/IP Port” for “Type of port:”.
- 7 Click the [Next].
  - The Add Standard TCP/IP Printer Port Wizard starts.
- 8 Click the [Next].
- 9 In the “Port Name” box, enter “\\NetBIOS name\print service name”.
- 10 Click [Open].
- 11 Click the [Have Disk].
- 12 Click the [Browse].
- 13 Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 14 Click the [OK].

The “Printer” list appears.
- 15 Click the [Next].

- 16 Follow the on-screen instructions.
  - If the “User Account Control” window appears, click the [Continue].
- 17 Click the [Finish].
- 18 When the installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 19 Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

### 4.5.3 Network connection (IPP or IPPS)

For IPP printing, specify the network setting before installing the printer driver.

#### Specifying the TCP/IP setting for this machine

Specify the IP address of this machine.

For details on specifying the IP address of this machine, refer to the User’s Guide [POD Administrator’s Reference or Main Body].

#### Specifying the IPP settings for the copier

Enable IPP printing in “IPP Setting” of the copier.

For details on the IPP settings of this machine, refer to the User’s Guide [POD Administrator’s Reference or Main Body].

#### Printer driver installation using the Add Printer wizard

- ✓ The installation should be performed by a qualified system administrator or printer administrator.
- 1 Insert the Driver CD into the CD-ROM drive of the computer.
  - 2 Click the [Start], point to “Settings”, and then click “Printers”.
  - 3 Double-click “Add Printer”.
    - The Add Printer Wizard starts.
  - 4 Click [Next].
  - 5 In the Local or Network Printer dialog box, select “Network printer”, and then click the [Next].

- 6** In the Locate Your Printer dialog box, select “Connect to a printer on the Internet or on your intranet”.
- 7** In the “URL” field, enter the URL for the copier in the following format, and then click the [Next].
  - `http://(IP_address_of_machine)/ipp` Example: If the IP address of the copier is 192.168.1.20, enter `http://192.168.1.20/ipp`.
  - When setting the copier for IPPS printing, enter “`https://(IP_address_of_machine)/ipp`”. The window for confirming the user name and password appears in the course of installation.
- 8** When the confirmation dialog box appears, click the [OK].
- 9** Click the [Have Disk].
- 10** Click the [Browse].
- 11** Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 12** Click the [OK].

The “Printer” list appears.
- 13** Click the [OK].
- 14** Follow the on-screen instructions.
  - If the “User Account Control” window appears, click the [Continue].
- 15** Click the [Finish].
- 16** When the installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 17** Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

#### 4.5.4 Local connection

When this machine is connected via a USB port, the printer driver can be installed with plug-and-play.

- 1 Connect a USB cable to a USB port (square type) at the rear of the copier and a computer, and then start up the computer.
- 2 Turn on the main power of the copier.
  - The Found New Hardware Wizard dialog box appears.
  - If the Found New Hardware Wizard does not start up, turn off the copier, then on again. When turning off the power, then on again, wait at least 10 seconds before turning it on again. Otherwise, this machine may not function properly.
- 3 Insert the Driver CD into the CD-ROM drive of the computer.
- 4 Select “Search for a suitable driver for my device (recommended)”, and then click the [Next].
- 5 Select “Specify location”, and then click the [Next].
- 6 Specify the desired folder on the Driver CD that contains the printer driver, and then click the [Open].
  - Select printer driver (PCL, PostScript PPD) to be used.
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM)” on page 1-6.
- 7 Click the [OK]. and follow the on-screen instructions.
  - If the “User Account Control” window appears, click the [Continue].
- 8 Click the [Finish].
- 9 When the installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 10 Remove the CD-ROM from the CD-ROM drive.

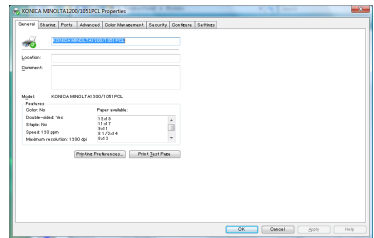
This completes the printer driver installation.

## 4.6 Test Page Print

You can make sure whether or not the printer driver is installed properly by printing the test page that comes standard in Windows.

### To print the test page:

- 1 Select [Start] - [Control Panel] - [Printers].
  - In case of Windows 7, Select [Start] - [Devices and Printers].
  - In case of Windows XP/Server 2003, Select [Start] - [Printers and Faxes].
  - In case of Windows 2000, Select [Start] - [Settings] - [Printers].
- 2 Right-click the printer icon on the [Printers] window. Then select [Properties].
  - In case of Windows 7, select [Start] - [Printer properties].
  - The properties window may differ depending on your OS.
  - How to open the [Properties] window is depending on OS. Refer to "About Properties window" for more information about [Properties] window.



[KONICA MINOLTA1200/1051PCL Properties] dialog box appears.

- 3 Select [General] tab in the [KONICA MINOLTA1200/1051PCL Properties] dialog box and click [Print Test Page].
 

The test page is printed and the confirmation window appears.
- 4 Verify that it is printed properly. Then, click [Yes].
 

The test print is completed.



### Note

*If it is not printed properly, verify the current status of this printing system.*

## 5 Installation of the printer driver (Macintosh)

### 5.1 Compliant OS

The printer driver is can be used on the following OS:

Windows	Printer Driver
Mac OS X	<ul style="list-style-type: none"> <li>"Mac OS X (10.3/10.4/10.5)" on Page 5-1</li> </ul>

The Driver CD contains the PostScript PPD printer driver.

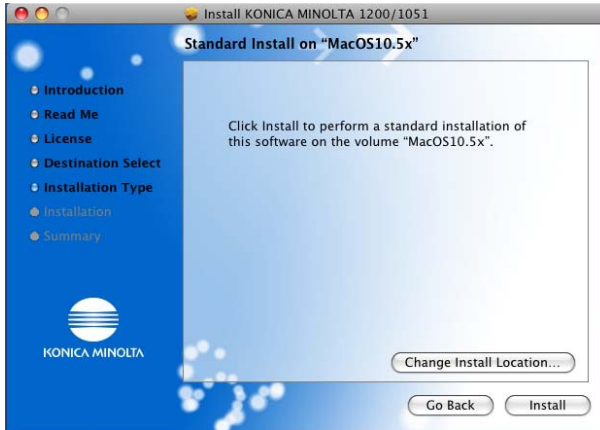
### 5.2 Mac OS X (10.3/10.4/10.5)

#### 5.2.1 Installing the printer driver

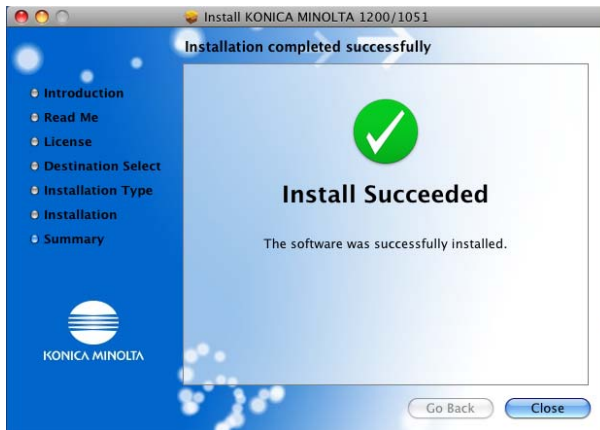
- 1 Start up the Macintosh computer.
- 2 Insert the Driver CD into the CD-ROM drive of the computer.
- 3 Select the specified folder according to the printer driver to be used.
  - Copy the driver file for the Mac OS version on the desktop.
  - OS X 10.3 - 10.4: KONICAMINOLTA\_1200\_103.pkg
  - OS X 10.5: KONICAMINOLTA\_1200\_105.pkg
  - For details of the built-in CD-ROM construction, see “Folder structure on the CD-ROM (bizhub PRO 1200/1200P/1051 Driver CD-ROM for Macintosh)” on page 1-7.
  - And for OS 10.5, use a file stored either in the [A4] or [Letter] folder according to the device environment.
  - Differences between [A4] and [Letter] are as described below. However, there is no difference found with functions.
  - Size of paper that is output when a PS error occurs.
  - Size of paper that is automatically changed and output when a custom paper size beyond the limits is selected.
  - Size of paper that is output for the solution of a line boundary message displayed by OS.
- 4 Double-click the file copied on the desktop.
  - Click the [Continue] and follow the on-screen instructions until the Easy Install dialog box appears.

- As prompted, enter the administrator name and password. For the administrator name and password, contact your network administrator.

5 In the Easy Install dialog box, click the [Install].



6 Click the [Close].



This completes the printer driver installation.

## 5.2.2 Selecting and connecting the printer (OS 10.4/10.5)

In OS 10.4/10.5, this machine can be connected with Bonjour, AppleTalk, LPR (LPD) or IPP.

After specifying the network setting for the copier, selecting this machine as the printer in “Print & Fax” enables printing.

### Specifying the Bonjour settings

To use Bonjour setting, enable the Bonjour Setting of the copier and enter the Bonjour name. For details on specifying the Bonjour Setting of this machine, refer to the User’s Guide [POD Administrator’s Reference or Main Body].

### Adding a printer

- 1 On the “Apple” menu, select “System Preferences”.
- 2 Select [Print & Fax].
- 3 Click [+] provided at the lower left of the screen.
- 4 When a printer is detected that has been connected, select an intended printer name and the Kind (Connection) (Bonjour) from the [Default (Browser)] tab.
- 5 In OS 10.5, after selecting [Select a driver to use] in [Print using] provided in the lower section of the screen, select [KONICA MINOLTA1200/1051PS(P)] from the list and then click [Add].
  - In OS 10.4, select “KONICA MINOLTA” in “Print Using”, select the desired model from the list of models, and then click the [Add].
  - In OS 10.5, entering [KONICA MINOLTA] in the text box for search allows you to find a driver with ease.
- 6 When [Installable Options] is displayed, select an option that has been equipped to the copier and then click [Continue].
  - An option can also be set in the same manner as with [Options and Supplies] - [Driver] tabs in OS 10.5 ([Printer Setup] - [Installable Options] in OS 10.4), by selecting a relevant printer name in the [Print & Fax] window.
- 7 The setting is completed when being registered with [Print & Fax].

### Specifying the AppleTalk settings

Enable AppleTalk in “AppleTalk Setting”, and then enter the printer name. For details on the AppleTalk settings of the copier, refer to the User’s Guide [POD Administrator’s Reference or Main Body].

### Specifying the AppleTalk settings for the computer

- 1 On the “Apple” menu, select “System Preferences”.
- 2 Click the “Network” icon.
- 3 From “Show”, select “Built-in Ethernet”.
- 4 In OS 10.5, click [Advanced].
- 5 Click the AppleTalk tab, and then select the “Make AppleTalk Active” check box.
- 6 Click [OK].
- 7 Click [Apply(Now)].
- 8 Click the close button at the upper left corner of the dialog box.
  - When the “This service has unsaved changes.” message appears, click the [Apply].

### Adding a printer

- 1 On the “Apple” menu, select “System Preferences”.
- 2 Select [Print & Fax].
- 3 Click [+] provided at the lower left of the screen.
- 4 When a printer is detected that has been connected, select an intended printer name and the Kind (Connection) (AppleTalk) from the [Default(Browser)] tab.
  - In OS 10.5, the setting can also be made from the [AppleTalk] tab. Select an intended printer name from among printers detected on the screen.
- 5 In OS 10.5, after selecting [Select a driver to use] in [Print using] provided in the lower section of the screen, select [KONICA MINOLTA1200/1051PS(P)] from the list and then click [Add].

- In OS 10.4, select “KONICA MINOLTA” in “Print Using”, select the desired model from the list of models, and then click the [Add].
- In OS 10.5, entering [KONICA MINOLTA] in the text box for search allows you to find a driver with ease.

- 6 When [Installable Options] is displayed, select an option that has been equipped to the copier and then click [Continue].
  - An option can also be set in the same manner as with [Options and Supplies] - [Driver] tabs in OS 10.5 ([Printer Setup] - [Installable Options] in OS 10.4), by selecting a relevant printer name in the [Print & Fax] window.
- 7 The setting is completed when being registered with [Print & Fax].

### **Specifying the LPR settings**

Specifying the TCP/IP setting for this machine:

Specify the IP address of this machine.

LPD setting for the copier:

To use LPR printing, enable LPD print in the LPD Setting screen of the copier.

For details on the IP Address and the LPD settings of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

### **Specifying the TCP/IP setting for the computer**

- 1 On the “Apple” menu, select “System Preferences”.
- 2 Click the “Network” icon.
- 3 From “Show”, select “Built-in Ethernet”.
  - Set an IP address and a subnet mask, if necessary.
  - In OS 10.5, clicking [Advanced] also allows you to set an IP address from the [TCP/IP] tab.
- 4 Click [Apply (Now)].
- 5 Click the close button at the upper left corner of the dialog box.
  - When the “This service has unsaved changes.” message appears, click the [Apply].

### Adding a printer

- 1 On the “Apple” menu, select “System Preferences”.
- 2 Select [Print & Fax].
- 3 Click [+] provided at the lower left of the screen.
- 4 Click the [IP (Printer)] tab to set [Protocol] in [Line Printer Daemon-LPD].
- 5 Enter the IP address of the output device in [Address].
- 6 In OS 10.5, after selecting [Select a driver to use] in [Print using] provided in the lower section of the screen, select [KONICA MINOLTA1200/1051PS(P)] from the list and then click [Add].
  - In OS 10.4, select “KONICA MINOLTA” in “Print Using”, select the desired model from the list of models, and then click the [Add].
  - In OS 10.5, entering [KONICA MINOLTA] in the text box for search allows you to find a driver with ease.
- 7 When [Installable Options] is displayed, select an option that has been equipped to the copier and then click [Continue].
  - An option can also be set in the same manner as with [Options and Supplies] - [Driver] tabs in OS 10.5 ([Printer Setup] - [Installable Options] in OS 10.4), by selecting a relevant printer name in the [Print & Fax] window.
- 8 The setting is completed when being registered with [Print & Fax].

### Specifying the IPP settings

Specifying the TCP/IP setting for this machine:

Specify the IP address of this machine.

IPP setting for the copier:

Enable IPP print in the IPP Setting screen of the copier.

For details on IP Address and the IPP settings of this machine, refer to the User’s Guide [POD Administrator’s Reference or Main Body].

### Specifying the TCP/IP setting for the computer

- 1 On the “Apple” menu, select “System Preferences”.
- 2 Click the “Network” icon.

- 3 From “Show”, select “Built-in Ethernet”.
  - Set an IP address and a subnet mask, if necessary.
  - In OS 10.5, clicking [Advanced] also allows you to set an IP address from the [TCP/IP] tab.
- 4 Click [Apply].
- 5 Click the close button provided at the upper left of the window.
  - When the “This service has unsaved changes.” message appears, click the [Apply].

### Adding a printer

- 1 On the “Apple” menu, select “System Preferences”.
- 2 Select [Print & Fax].
- 3 Click [+] provided at the lower left of the screen.
- 4 Click the [IP (Printer)] tab to set [Protocol] in [Internet Printing Protocol-IPP].
- 5 Enter the IP address of the output device in [Address].
- 6 Enter the “ipp” in the [Queue].
- 7 In OS 10.5, after selecting [Select a driver to use] in [Print using] provided in the lower section of the screen, select [KONICA MINOLTA1200/1051PS(P)] from the list and then click [Add].
  - In OS 10.4, select “KONICA MINOLTA” in “Print Using”, select the desired model from the list of models, and then click the [Add].
  - In OS 10.5, entering [KONICA MINOLTA] in the text box for search allows you to find a driver with ease.
- 8 When [Installable Options] is displayed, select an option that has been equipped to the copier and then click [Continue].
  - An option can also be set in the same manner as with [Options and Supplies] - [Driver] tabs in OS 10.5 ([Printer Setup] - [Installable Options] in OS 10.4), by selecting a relevant printer name in the [Print & Fax] window.
- 9 The setting is completed when being registered with [Print & Fax].

### 5.2.3 Selecting and connecting the printer (OS 10.3)

In OS 10.3, this machine can be connected with Rendezvous (Bonjour), AppleTalk, LPR (LPD), or IPP.

After specifying the network setting for the copier, selecting this machine as the printer in “Printer Setup Utility” enables printing.

Refer to “Selecting and connecting the printer (OS 10.4/10.5)” on page 5-3 for more information about Mac OS 10.4/10.5.

#### Specifying the Rendezvous settings

To use Bonjour setting, enable the Bonjour Setting of the copier and enter the Bonjour name. For details on specifying the Bonjour Setting of this machine, refer to the User’s Guide [POD Administrator’s Reference or Main Body].



#### Detail

*For Mac OS 10.3, “Bonjour” is referred to as “Rendezvous”.*

#### Adding a printer

- 1 Select “HDD” - “Applications” - “Utilities” where the driver was installed, and then double-click “Printer Setup Utility” to open it.
- 2 When the Add Printer dialog box appears, click the [Add]. When the printer list appears, click the [Add].
- 3 Select [Rendezvous] as a connection method, and then select an intended printer name from among those detected.
- 4 Select “KONICA MINOLTA” in “Printer Model”, select [KONICA MINOLTA1200/1051PS(P)] from the list of models, and then click the [Add].
  - If the selected printer is registered in the printer list, the setting procedure is completed.

### Specifying the AppleTalk settings

Enable AppleTalk in “AppleTalk Setting”, and then enter the printer name. For details on the AppleTalk settings of this machine, refer to the User’s Guide [POD Administrator’s Reference or Main Body].

### Specifying the AppleTalk settings for the computer

- 1 On the “Apple” menu, select “System Preferences”.
- 2 Click the “Network” icon.
- 3 From “Show”, select “Built-in Ethernet”.
- 4 Click the AppleTalk tab, and then select the “Make AppleTalk Active” check box.
- 5 Click the close button at the upper left corner of the dialog box.
  - When the “Apply configuration changes?” message appears, click the [Apply].

### Adding a printer

- 1 Select “HDD” - “Applications” - “Utilities” where the driver was installed, and then double-click “Printer Setup Utility” to open it.
- 2 When the Add Printer dialog box appears, click the [Add]. When the printer list appears, click the [Add].

The connected printers are detected.
- 3 Select [AppleTalk] as a connection method, and then select an intended printer name from among those detected.
- 4 Select “KONICA MINOLTA” in “Printer Model”, select [KONICA MINOLTA1200/1051PS(P)] from the list of models, and then click the [Add].
  - If the selected printer is registered in the printer list, the setting procedure is completed.

### Specifying the LPR settings

Specifying the TCP/IP setting for this machine:

Specify the IP address of this machine.

LPD setting for the copier:

To use LPR printing, enable LPD print in the LPD Setting screen of the copier.

For details on the IP Address and the LPD settings of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

### Specifying the TCP/IP setting for the computer

- 1 On the "Apple" menu, select "System Preferences".
- 2 Click the "Network" icon.
- 3 From "Show", select "Built-in Ethernet".
- 4 Click the TCP/IP tab.
- 5 Select "Configure" items according to the settings for the network to which the Macintosh computer is connected, and then specify the IP address and subnet mask.
- 6 Click the close button at the upper left corner of the dialog box.
  - When the "Apply configuration changes?" message appears, click the [Apply].

### Adding a printer

- 1 Select "HDD" - "Applications" - "Utilities" where the driver was installed, and then double-click "Printer Setup Utility" to open it.
- 2 When the Add Printer dialog box appears, click the [Add]. When the printer list appears, click the [Add].
- 3 Click the [IP Printing].
- 4 Select "LPD/LPR" from "Printer Type".
- 5 In "Address", enter the IP address of this machine.
- 6 Select "KONICA MINOLTA" in "Printer Model", select [KONICA MINOLTA1200/1051PS(P)] from the list of models, and then click the [Add].

- If the selected printer is registered in the printer list, the setting procedure is completed.

### **Specifying the IPP settings**

Specifying the TCP/IP setting for this machine:

Specify the IP address of this machine.

IPP setting for the copier:

Enable IPP print in the IPP Setting screen of the copier.

For details on IP Address and the IPP settings of this machine, refer to the User's Guide [POD Administrator's Reference or Main Body].

### **Specifying the TCP/IP setting for the computer**

- 1** On the "Apple" menu, select "System Preferences".
- 2** Click the "Network" icon.
- 3** From "Show", select "Built-in Ethernet".
- 4** Click the TCP/IP tab.
- 5** Select "Configure" items according to the settings for the network to which the Macintosh computer is connected, and then specify the IP address and subnet mask.
- 6** Click the close button at the upper left corner of the dialog box.
  - When the "Apply configuration changes?" message appears, click the [Apply].

### **Adding a printer**

- 1** Select "HDD" - "Applications" - "Utilities" where the driver was installed, and then double-click "Printer Setup Utility" to open it.
- 2** When the Add Printer dialog box appears, click the [Add]. When the printer list appears, click the [Add].
- 3** Click the [IP Printing].
- 4** Select "Internet Printing Protocol" from "Printer Type".
- 5** In "Address", enter the IP address of this machine.

- 6 Select “KONICA MINOLTA” in “Printer Model”, select [KONICA MINOLTA1200/1051PS(P)] from the list of models, and then click the [Add].
  - If the selected printer is registered in the printer list, the setting procedure is completed.

## 5.3 Test Page Print

### Macintosh

Macintosh has no standard test print function. Double-click [ReadMe.txt] in the Driver CD. Then, select [Print...] from [File] menu and make sure it is printed properly.

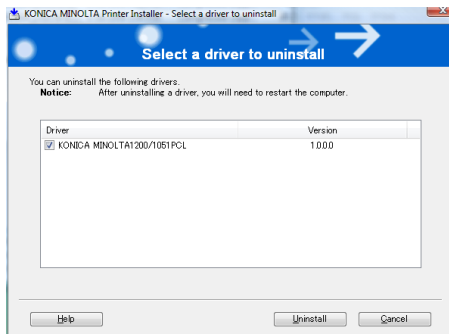
## 6 Uninstallation of the printer driver

When a printer driver is required to be removed to reinstall it, remove the driver following the procedure given below.

### 6.1 Uninstallation by an uninstallation program (PCL)

If the printer driver was installed with an installer, the delete function of the printer driver is included.

- 1 Click the [Start], and then select “All Programs” (or “Programs”), select “KONICA MINOLTA”, select “xxxx (product name)”, and then click “Uninstall Printer Driver”.
- 2 Select the components to be deleted, and then click the [Uninstall].
  - Follow the on-screen instructions.



- 3 If the restart screen appears, click the [OK] to restart the computer.

## 6.2 Uninstallation by an installer (PCL)

If the printer driver was installed with an installer, it can be deleted by the installer.

- 1** Insert the Driver CD into the CD-ROM drive of the computer.
  - Check that the installer starts up, and then continue with step 2.
  - If the installer does not start up, open the printer driver folder on the CD-ROM and double-click “Setup.exe” for the 32bit editions OS and “Setup64.exe” for the 64bit editions OS, and then proceed to Step 3.
- 2** Click “Printer Install” - “PCL”.

The installer of the printer driver starts.
- 3** Click the [Agree] on the installation license agreement screen.
- 4** In the setup selection dialog box, select “Uninstall Printer Driver”, and then click the [Next].
- 5** Select the components to be deleted, and then click the [Delete].
  - Follow the on-screen instructions.
- 6** If the restart screen appears, click the [OK] to restart the computer.

## 6.3 Deletion of printer driver by Manual operation

The deleting procedures of the printer driver by manual operation may be different depending on the type of the driver and the OS running in the computer.

Windows	Deleting a Printer Driver
Windows 2000/XP/Vista/Server 2003/Server 2008	<ul style="list-style-type: none"> <li>"Uninstallation by an uninstallation program (PCL)" on Page 6-1</li> </ul>
Macintosh	Deleting a Printer Driver
Mac OS X v10.3x - v10.5x	<ul style="list-style-type: none"> <li>"Macintosh" on Page 6-6</li> </ul>

### 6.3.1 Manual uninstallation

If the printer driver was installed without using an installer, manually delete the printer driver.

- 1 Open the [Printers] window, [Printers and Faxes] window or [Devices and Printers] window.
- 2 Select the icon of the printer to be deleted.
  - In case of Windows 7, right-click the icon of the printer to be deleted.
- 3 Press the [Delete] key on the computer keyboard to delete the printer driver.
  - In case of Windows 7, select [Remove device].
- 4 Follow the on-screen instructions.
  - When the driver has been deleted, the icon disappears from the [Printers] window, the [Printers and Faxes] window or [Devices and Printers] window.
  - If the User Account Control window appears, click the [Continue].
- 5 Click [Server Properties].
  - In case of Windows 7, select icon of the printer and click [Print server properties].
  - For Windows 2000/XP/Server 2003, click the [File] menu, and then click [Server Properties].

- For Windows Vista/Server 2008, right-click space in the Printers window and click “Run as administrator”, then click “Server Properties”.
- 6 Click the Driver tab.
  - 7 Select the printer driver to be deleted from the “Installed printer drivers” list, and then click the [Remove].
    - For Windows 2000/XP/Server 2003, continue with step 9.
    - For Windows Vista/Server 2008, continue with step 8.
  - 8 Select “Remove driver and driver package” on the deletion confirmation screen and then click the [OK].
  - 9 Click the [Yes] on the deletion confirmation screen.
    - For Windows Vista/Server 2008, when the deletion confirmation screen is additionally displayed, click the [Delete].
  - 10 Close the opened screen and restart the computer.
    - Be sure to restart the computer.
    - This completes the printer driver uninstallation.

**Note**

*Even if the printer driver is deleted using the method described above, the model information file will remain in the computer for Windows 2000/XP/Server 2003. Therefore, when reinstalling the same version of the printer driver, the driver may not be able to be overwritten. In this case, delete the following files.*

*“C: \WINDOWS\system32\spool\drivers\w32x86”*

*In case of 64bit OS, “C: \WINDOWS\system32\spool\drivers\x64”*

*When you check folders and find a folder of the applicable model, delete it. However, if multiple drivers are installed including the Konica Minolta driver and PostScript Konica Minolta driver, the model information of all drivers is deleted. If other drivers are remaining, do not delete it.*

*Delete “oem\*.inf” and “oem\*.PNF” in “C:\WINDOWS\inf” folder (the asterisk “\*” in the file name indicates a number, and the number varies according to the environment of the computer).*

*Before deleting the files, open the INF file, check that the model name is described in the last several lines, and then check that the file of the cor-*

*responding model is available. The PNF file is the same number as the INF file.*

*In Windows Vista/7/Server 2008, when you have deleted a file using "Remove driver and driver package", this operation is not required.*

## 6.4 Macintosh

If it becomes necessary to delete the printer driver, for example, when you want to reinstall the printer driver, delete the driver according to the following procedure.

### 6.4.1 For Mac OS X (v10.5)

#### For Mac OS X (v10.5)

- 1 On the “Apple” menu, select “System Preferences”.
  - 2 Select the [Print & Fax] icon.
  - 3 Select the print name to be deleted, and then click the Delete [-] button on the lower left side of the dialog box.
  - 4 When the confirmation message appears, click the [OK]. Selected printer is deleted.
  - 5 Click the close [x] button on the upper left corner of the [Print & Fax] dialog box.
    - Following procedure is not necessary. It is for people who would like to delete unnecessary files.
  - 6 Drag the [KONICAMINOLTA1200.gz] file, which is located in [Library] - [Printers] - [PPDs] - [Contents] - [Resources] of HDD to the [Trash] icon.
  - 7 Drag the [1200] folder, which is located in [Library] - [Printers] - [KONICAMINOLTA] to the [Trash] icon.
  - 8 Drag the [KONICAMINOLTA\_1200\_105.pkg] file, which is located in the [Library] - [Receipts] to the [Trash] icon.
  - 9 Restart the computer.
- This completes the printer driver uninstallation.

## 6.4.2 For Mac OS X (v10.3/v10.4)

### For Mac OS X (v10.3/v10.4)

- 1 Open the [Printer Setup Utility] (or [Print Center]) located in “Applications” - “Utilities” of “Hard Disk”.
- 2 Select the printer name to be deleted, and then click the [Delete].  
The selected printer is deleted.
- 3 Close the printer list.
- 4 Drag the following file, which is located in “Library” - “Printers” - “PPDs” - “Contents” - “Resources” - “en.lproj” of “Hard Disk”, to the “Trash” icon.
  - “KONICA MINOLTA 1200.gz”
- 5 Delete the unnecessary files from “Library” - “Printers” - “KONICAMINOLTA”.
  - Drag the following files in the “filter” to “Trash”.  
“pstokm120”
  - Drag the following files in the “PDEs” to “Trash”.  
“KONICAMINOLTA 1200 Finishing.plugin”  
“KONICAMINOLTA 1200 ImageLayout.plugin”  
“KONICAMINOLTA 1200 Security.plugin”  
“KONICAMINOLTA 1200 Setup.plugin”
- 6 Drag the following file, which is located in “Library” - “Receipts”, to the Trash icon.
  - KONICAMINOLTA\_1200\_103.pkg
- 7 Restart the computer.
  - This completes the printer driver uninstallation.

## 7 Basic Printing and Various Function

This chapter describes basic printing method from application, and various functions.

### 7.1 Basic Printing Method

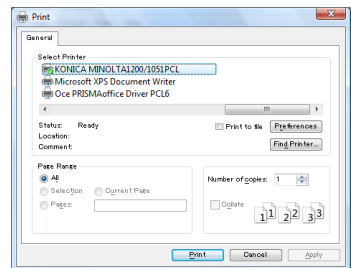
#### Basic Printing method (Windows)

The following shows the basic methods for the printing from a Windows.

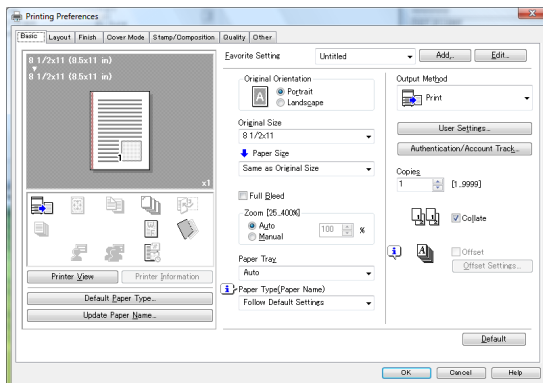
This pages is explained by using Windows Vista.

- 1 Select [Print] from [File] menu in an application.
  - Command name may be different depending on the application.

The [Print] dialog appears.



- 2 Select printer in pull down menu besides the [Name].
- 3 Click [Preferences] to set detail if necessary.
- 4 Click [OK] if a required setup is finished.



The display returns to the [Print] dialog.

**5** Click [Print].

The image controller receives and processes a print job sent from your computer.

**Note**

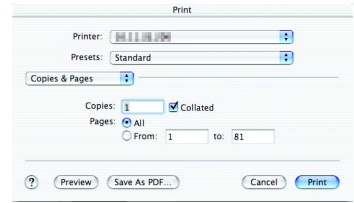
*Refer to "PCL Printer Driver Setting (Windows)" on Page 8-1, "PostScript PPD Printer Driver setting (Windows)" on Page 9-1 for more information about print setup.*

## Basic Printing method (Mac OS X)

The following shows the basic methods for the printing from a Mac OS X.

**1** Select [File]-[Print] of the application.

- Command name may be different depending on the application.



**2** Make sure that compliant printer name is selected in the [Printer].

- Refer to "PostScript PPD Printer Driver setting (Mac OS X)" on Page 10-1 for more information about print setup.

**3** Click [Print].

The image controller receives and processes a print job sent from your computer.

## 7.2 Various Function

Various functions of the printer is introduced from this page. Refer to the page indicated by [Refer to] for the details of the setting method of each function.

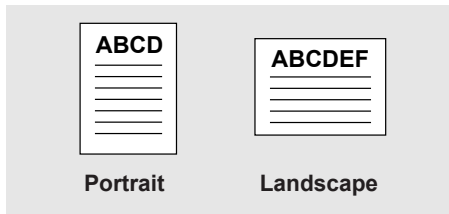
### 7.2.1 To set the paper-related items

The size of the paper, direction of the paper and other paper-related items can be set as shown below.

#### To set the orientation:

Set the orientation output paper in "Portrait" or "Landscape".

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Layout tab" on Page 9-19
Mac OS X	PostScript PPD	"Page Attributes (Page Setup window)" on Page 10-5



#### To set the size of output paper:

Sets various sizes for the output paper.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Page Attributes (Page Setup window)" on Page 10-5

**To set the type of paper:**

Sets various types of paper as output paper.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Paper/Quality tab" on Page 9-21
Mac OS X	PostScript PPD	"Setup (Print window)" on Page 10-13

**To set the color of the paper:**

You can make a print with a color paper by specifying a desired color paper from the printer driver.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Setup (Print window)" on Page 10-13

**To set the pre-punched paper:**

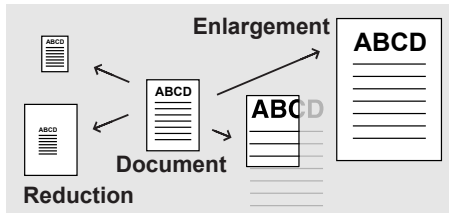
You can make a print with a punched paper by specifying the desired paper from the printer driver.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Setup (Print window)" on Page 10-13

**To enlarge or reduce by a specified ratio:**

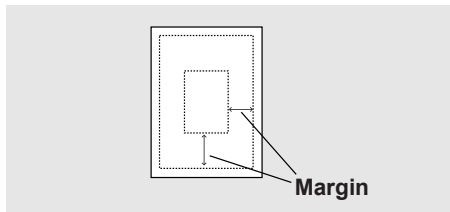
Prints by specifying a value of enlargement or reduction.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Page Attributes (Page Setup window)" on Page 10-5

**To set the margins:**

You can set the margins of output paper.

Operating System	Printer Driver	Refer to
Mac OS X	PostScript PPD	"Custom Paper Size (Page Setup window)" on Page 10-8



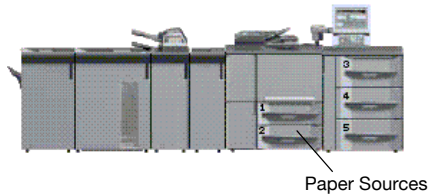
## 7.2.2 To set the paper tray

For the paper trays such as the feed tray and the output tray, the following settings are available.

### To set the Paper Source unit:

You can make the printer driver recognize an optional paper source unit.

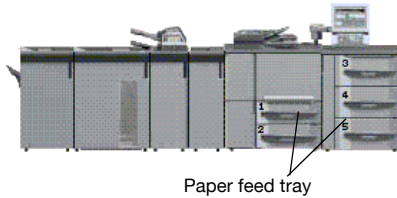
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Configure tab" on Page 8-12
	PostScript PPD	"Device Settings tab" on Page 9-14
Mac OS X	PostScript PPD	"About Mac OS X window" on Page 10-1



**To set the paper feed tray:**

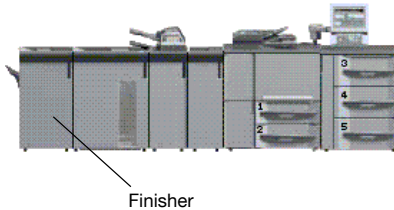
You can select and set a paper feed tray to be used from the list.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Device Settings tab" on Page 9-14
Mac OS X	PostScript PPD	"Paper Feed (Print window)" on Page 10-12

**To set the Finisher:**

You can make the printer driver recognize an optional Finisher.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Configure tab" on Page 8-12
	PostScript PPD	"Device Settings tab" on Page 9-14
Mac OS X	PostScript PPD	"About Mac OS X window" on Page 10-1



**To set the Output tray:**

You can select and set an output tray to be used from the list.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Finish tab" on Page 8-39
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Finishing (Print window)" on Page 10-25

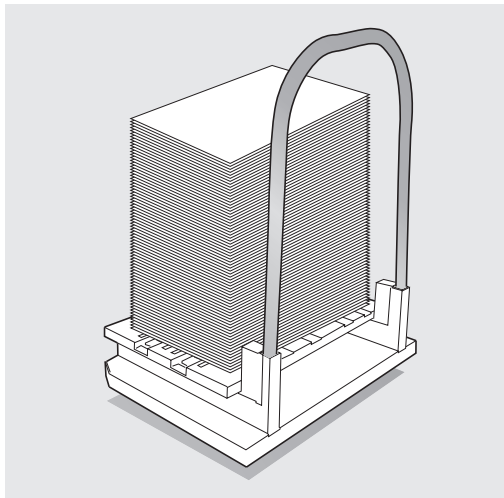
**Note**

*The position of the output tray varies depending on the optional unit.*

**To set the Stacker:**

This printing system enables you to stack a large amount of printed materials on the stacker. You can move around the stacker like a dolly.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Configure tab" on Page 8-12
	PostScript PPD	"Device Settings tab" on Page 9-14
Mac OS X	PostScript PPD	"About Mac OS X window" on Page 10-1



### 7.2.3 To print multiple copies

To print multiple sets of the same output result pages, you can set as shown below.

#### To set the number of copies to be printed:

Sets the number of copies to be printed from the [Properties] window.

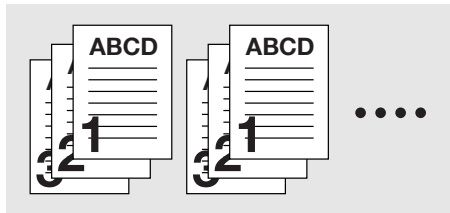
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Copies & Pages (Print window)" on Page 10-9

#### To print by sets (Collate):

This printing system enables you to print multiple sets of pages.

Prints the first one set of pages in one lot, and then the second set of pages, the third set of pages, ....., when printing multiple sets of pages.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Copies & Pages (Print window)" on Page 10-9

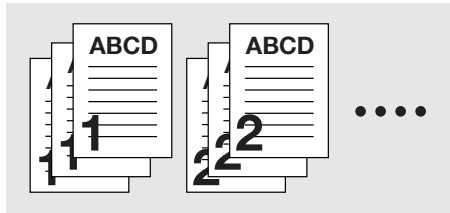


**To print page by page collectively:**

This printing system enables you to print page by page collectively.

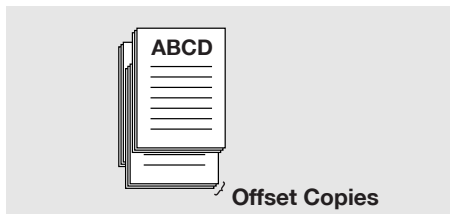
Prints the required number of the first page, and then the required number of the second pages, the third page.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Copies & Pages (Print window)" on Page 10-9

**To output offset copies (Offset):**

Selects to shift the exit position of each set of printout back and forth when printing multi set of copies.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Finishing (Print window)" on Page 10-25



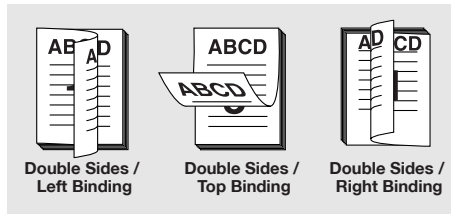
## 7.2.4 To print multiple pages

You can set as shown below when printing multiple pages document.

### To set to print on both sides:

Prints continuous multiple pages on both front and back sides.

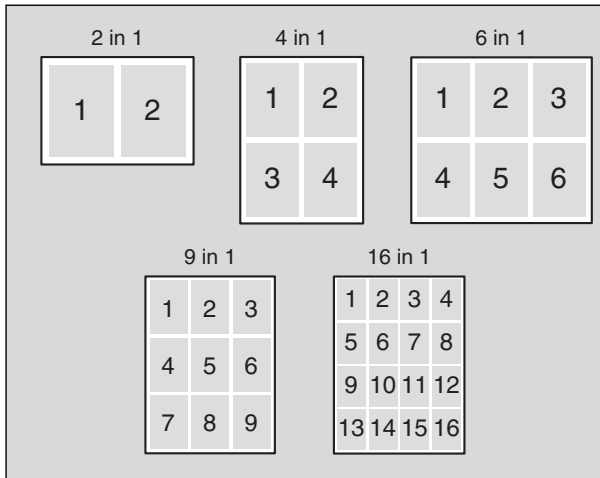
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Layout tab" on Page 8-31
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Finishing (Print window)" on Page 10-25



**To print the document of multiple pages on a single page (Page allocation / Layout):**

Allocates the document of 2 pages, 4 pages, 6 pages, 9 pages or 16 pages onto a single page for printing.

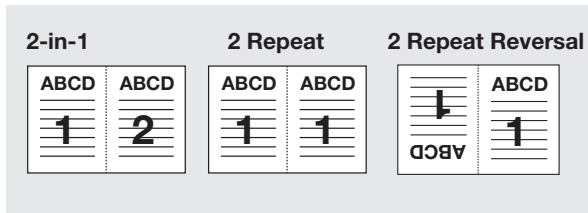
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Layout tab" on Page 8-31
	PostScript PPD	"Layout tab" on Page 9-19
Mac OS X	PostScript PPD	"Layout (Print window)" on Page 10-10



**To print 2 pages on a double size single paper (Combination (No Reduction)):**

Prints a document of 2 pages onto a single paper twice as big as a paper selected in the output paper.

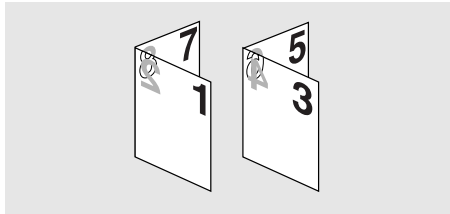
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Layout tab" on Page 8-31
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Image/Layout (Print window)" on Page 10-21



**To print a twofold booklet (Booklet):**

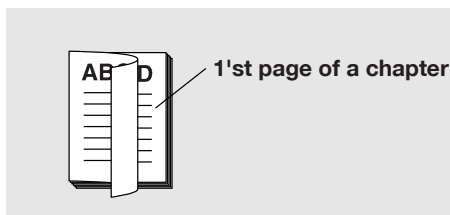
Prints output paper so that they become a book when they are folded in two.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Layout tab" on Page 8-31
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Image/Layout (Print window)" on Page 10-21

**To print a specific page on the front face (Chapter):**

Prints a specific page so that it comes on the front, especially when printing on both sides of the paper.

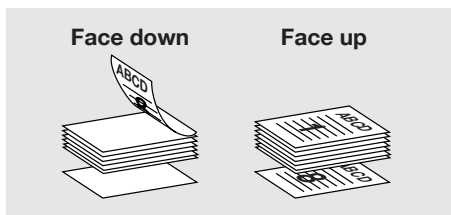
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Layout tab" on Page 8-31



**To print pages in facing up (Face up):**

Output paper facing up when printing multiple pages.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Finish tab" on Page 8-39
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Finishing (Print window)" on Page 10-25

**Not To print blank page:**

Selects not to print out blank pages in the document.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Layout tab" on Page 8-31

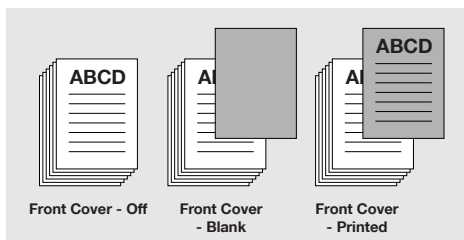
## 7.2.5 To set the Front / Back cover, insertion sheet and cover sheet

Make settings for a front cover, back cover, insertion sheet and cover sheet in addition to pages to be printed.

### To set a Front Cover:

Sets a front cover which uses a different paper from that for the body pages.

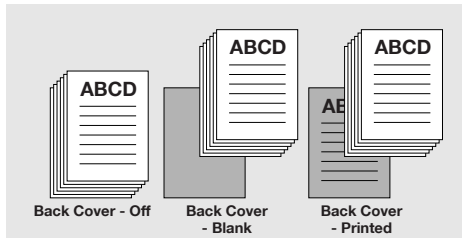
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Cover Mode tab" on Page 8-51
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Setup (Print window)" on Page 10-13



**To set a Back Cover:**

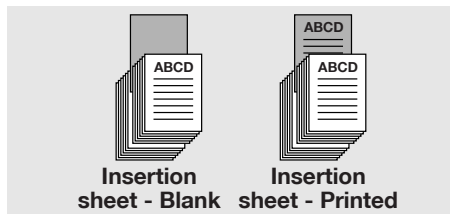
Sets a back cover which uses a different paper from that for the body pages.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Cover Mode tab" on Page 8-51
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Setup (Print window)" on Page 10-13

**To set an Insertion Sheet:**

Sets to insert a blank or printer paper which uses a different paper from that for the body pages.

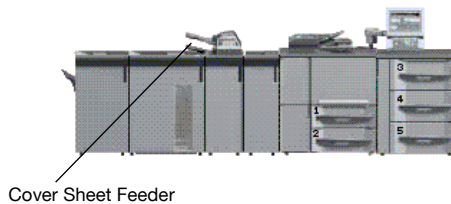
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Cover Mode tab" on Page 8-51



**To set a Thick Cover:**

Output a thick paper as a cover, which is different from the output papers set.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Cover Mode tab" on Page 8-51
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Setup (Print window)" on Page 10-13

**To set a Tab Paper:**

Sets to print tab paper. You can set the text, tab position, and number of tabs.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Cover Mode tab" on Page 8-51

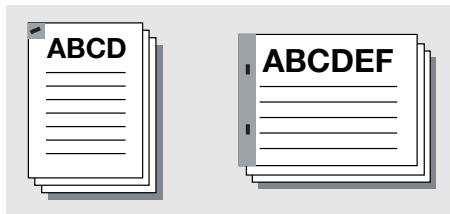
## 7.2.6 To set for finishing

It is possible to use various functions such as stapling, punching, binding and folding for bookbinding and finishing.

### To set stapling:

Staple output paper.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Finish tab" on Page 8-399
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Finishing (Print window)" on Page 10-25

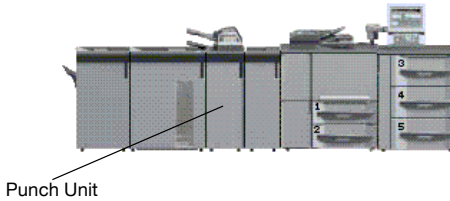


**To set the Punch Unit:**

Sets to make the printer driver recognize an optional Punch unit.

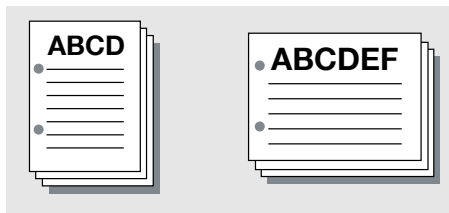
To use the punch unit, this setting is required to be made in advance.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Configure tab" on Page 8-12
	PostScript PPD	"Device Settings tab" on Page 9-14
Mac OS X	PostScript PPD	"About Mac OS X window" on Page 10-1

**To set punching:**

You can select to punch 2 or 3(4) holes in the output paper.

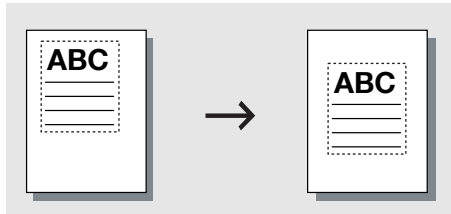
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Finish tab" on Page 8-39
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Finishing (Print window)" on Page 10-25



**To adjust printing position on the paper (Image Shift):**

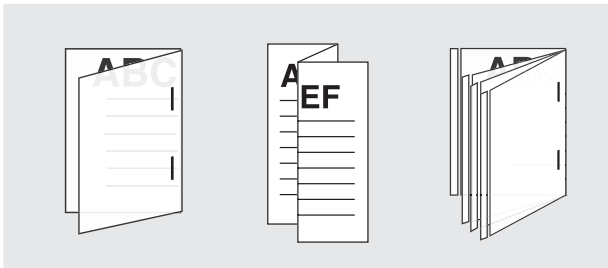
Adjusts the printing position of documents to the output paper.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Layout tab" on Page 8-31
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Image/Layout (Print window)" on Page 10-21

**To set Fold, Stitch and Trim:**

Sets to fold an output paper at the center, bind it at the center, fold it in a Z-shape or fold it into three, cut it.

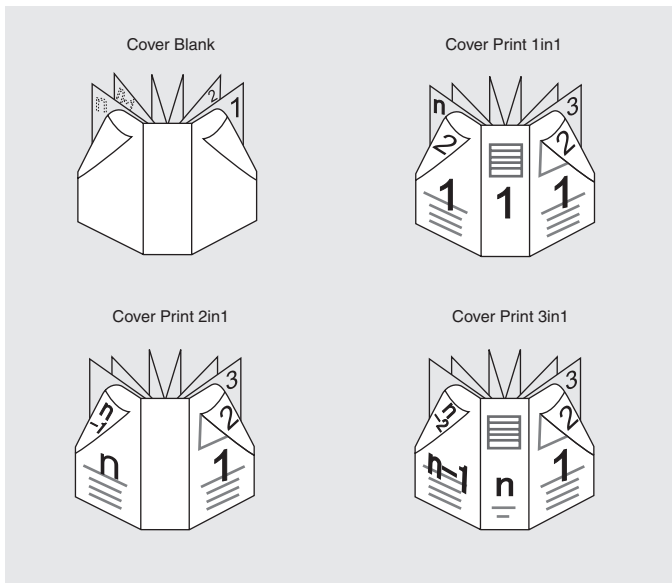
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Finish tab" on Page 8-39
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Finishing (Print window)" on Page 10-25



**To set Perfect Binding:**

In this printing system, the setting of the roll-up bookbinding is available.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Finish tab" on Page 8-39
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Finishing (Print window)" on Page 10-25



## 7.2.7 To set a Watermark

A Watermark or an Overlay can be set and printed on the output paper.

### To create a Overlay:

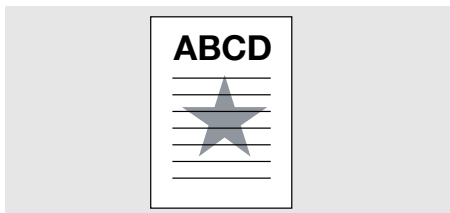
Creates a overlay design that is printed on the output paper.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Stamp/Composition tab" on Page 8-58

### To print a Overlay:

Sets a overlay and print it on the output paper.

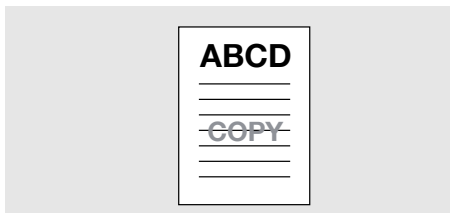
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Stamp/Composition tab" on Page 8-58



**To create a new Watermark:**

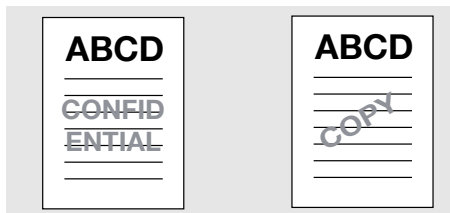
Creates a new Watermark printed on the output paper.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Stamp/Composition tab" on Page 8-58

**To print a Watermark:**

Sets a transparent character and print it on the output paper.

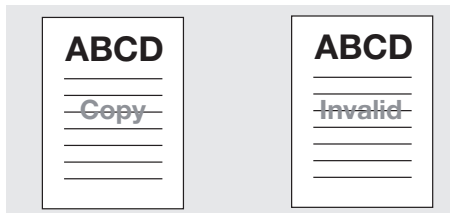
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Stamp/Composition tab" on Page 8-58



**To use the copy protect function:**

Sets a transparent character and print it on the output paper.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Stamp/Composition tab" on Page 8-58
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Image/Layout (Print window)" on Page 10-21

**To print Date/Time:**

Prints the date and time on all pages or 1st page Only.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Stamp/Composition tab" on Page 8-58
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Image/Layout (Print window)" on Page 10-21

**To print Page Number:**

Prints the page number. You can specify the pages to be printed with page numbers, the first page from which numbers will be printed, the initial page number to be printed.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Stamp/Composition tab" on Page 8-58

**To set numbering:**

Prints the copy number to the printed page.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Stamp/Composition tab" on Page 8-58

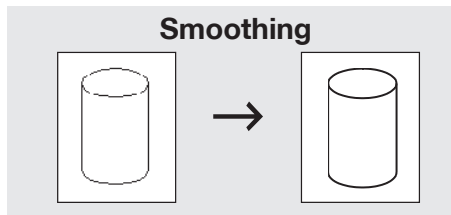
## 7.2.8 To set an image and shade

Sets a print density and a method for processing graphic data when outputting an image.

### To print a curved section smoothly (Smoothing):

Prints the curved section of characters and images smoothly.

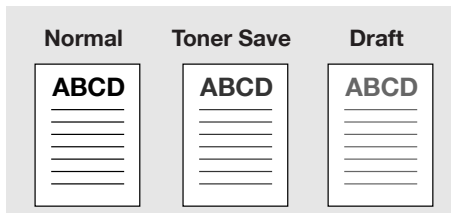
Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Quality tab" on Page 8-66
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Image/Layout (Print window)" on Page 10-21



### To save toner consumption:

Saves the consumption of toner by controlling print density.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Quality tab" on Page 8-66
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Image/Layout (Print window)" on Page 10-21



**To set draft print:**

Prints lightly which is suitable for draft documents.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Quality tab" on Page 8-66
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Image/Layout (Print window)" on Page 10-21

**To set a printing density:**

Sets a printing density.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Quality tab" on Page 8-66
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Image/Layout (Print window)" on Page 10-21

**To set a resolution:**

Sets the resolution from "1200dpi" or "600 dpi".

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Quality tab" on Page 8-66
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Image/Layout (Print window)" on Page 10-21

**To set printing pattern:**

Set printing pattern from [Fine] or [Coarse].

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Quality tab" on Page 8-66

**To narrow down a character for ease to read (Fine Line Precision):**

You can select the level of the thickness of a character.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Quality tab" on Page 8-66
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Image/Layout (Print window)" on Page 10-21

**To print a CAD drawing:**

Prints colored text, lines and figures in black to prevent faint printing.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Quality tab" on Page 8-66

## 7.2.9 To set font-related items

It is possible to set the printer font-, TrueType font-, and PostScript font-related items.

### To set the format of the font that is to be downloaded (Download Font Format):

Selects the font format to be downloaded to the printer (Outline or BMP).

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Quality tab" on Page 8-66

### To print without using printer fonts:

Makes settings so that printing is done without using the printer font.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Quality tab" on Page 8-66

### To set the substitution of the font (Font Substitution Settings):

Selects the printer fonts which substitutes for the highlighted True Type Font.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Quality tab" on Page 8-66

## 7.2.10 Checking the Printer Driver Setting

You can check the settings before printing and perform test printing to check current setting.

### To check the current settings before printing (Wait Mode):

Check the current settings from the control panel before printing.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Security (Print window)" on Page 10-31

### To check the current settings before printing (Proof Print):

Check outputs the test print and checks the current settings from the control panel.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
	PostScript PPD	"Advanced Options windows" on Page 9-23
Mac OS X	PostScript PPD	"Security (Print window)" on Page 10-31

## 7.2.11 How to store the job and reprint

A print job can be saved onto the hard disk of in this printing system, and it can be printed as needed.

### To save and print a print job (Save in User Box / Save in User Box & Print):

A print job can be saved onto the hard disk of in this printing system, and it can be printed as needed.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
Mac OS X	PostScript PPD	"Security (Print window)" on Page 10-31

### To print with protection by a password (Secure Print):

Protects a print job with a password when printing a confidential document.

Operating System	Printer Driver	Refer to
Windows	KONICA MINOLTA PCL	"Basic tab" on Page 8-16
Mac OS X	PostScript PPD	"Security (Print window)" on Page 10-31

## 8 PCL Printer Driver Setting (Windows)

This chapter describes the settings of the PCL printer driver. For settings, use the Properties window.

### 8.1 About Properties window

This chapter explains the PCL printer driver settings with Properties window of Windows Vista.

The method to open the Properties window depends on OS.

Operating System	Method
Windows 2000	Select [Start]-[Settings]-[Printers] to open the [Printers] folder, right-click the printer icon and select [Properties].
Windows XP/Server 2003	Select [Start]-[Printers and Faxes] to open the [Printers and Faxes] folder, right-click the printer icon and select [Properties].
Windows Vista/Server 2008	Select [Start]-[Control Panel]-[Printers] to open the [Printers] folder, right-click the printer icon and select [Properties].
Windows 7	Select [Start]-[Devices and Printers] to open the [Devices and Printers] window, right-click the printer icon and select [Printer properties].

How to open the printing preference window differs depending on the OS in use.

Operating System	Method
Windows 2000	Select [Start]-[Settings]-[Printers] to open the [Printers] folder, right-click the printer icon and select [Printing Preference].
Windows XP/Server 2003	Select [Start]-[Printers and Faxes] to open the [Printers and Faxes] folder, right-click the printer icon and select [Printing Preference].
Windows Vista/Server 2008	Select [Start]-[Control Panel]-[Printers] to open the [Printers] folder, right-click the printer icon and select [Printing Preference].
Windows 7	Select [Start]-[Devices and Printers] to open the [Devices and Printers] window, right-click the printer icon and select [Printing preferences].

### 8.1.1 Properties window

You have two ways for selecting or changing settings through the printer driver.

#### How to setup in the Properties window of the Printers window

Settings made in the [Properties] of the [Printers] folder are applied to print outs from any application.

#### How to setup with application

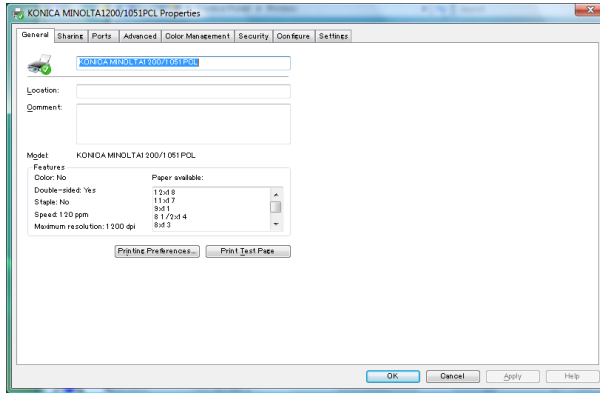
Settings can be made in the print dialog indicated by selecting the print command in the application. In this case, the settings are effective only when the application is in use.

**Note**

*This chapter is described by using the printer window of Windows Vista. The properties window may differ from the window displayed by the printing command of applications.*

## 8.2 About button

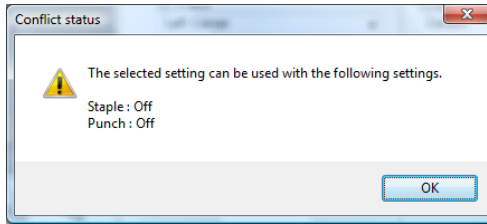
Buttons common to each tab of the [Properties] window are shown below.



Button	Function
OK	When the [OK] is clicked, all tab settings are saved with the close of the properties window.
Cancel	When the [Cancel] is clicked, all tab settings are cancelled with the close of the properties window.
Apply	When the [Apply] is clicked, the present tab settings are saved. This button is useful when you want conduct other settings in other tabs, and the present tab settings are registered before using other tabs.
Help	When the [Help] is clicked, Help information appears. As well, when you click [Help] which appears when right-clicking a desired item, pop-up help for the item appears.

### 8.3 Combination of the function

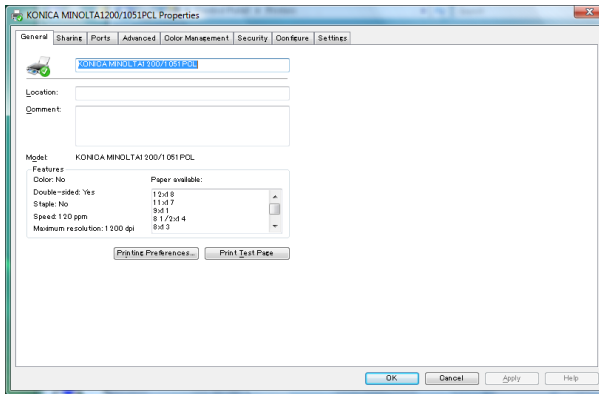
When you select a function which causes a conflict with the settings already configured, the message will be displayed



This window is a message window to show the reason if a certain combination of functions is unavailable.

## 8.4 General tab

Enables printing a test page.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Property window.*

### Location

Enters the name of place where the printer is located. For example, "2nd floor", "Room 101", "Domain ABC" and so on.

### Comment

Enters information about the printer. For example, "User: documentation team", "Maintenance: 123-456-789", and so on.

### Printing Preference

Displays the property window of the selected printer. You can change the setting of the printer driver with the property window.

### Print Test Page

Prints a test page of Windows. You can print a test page without using any application.

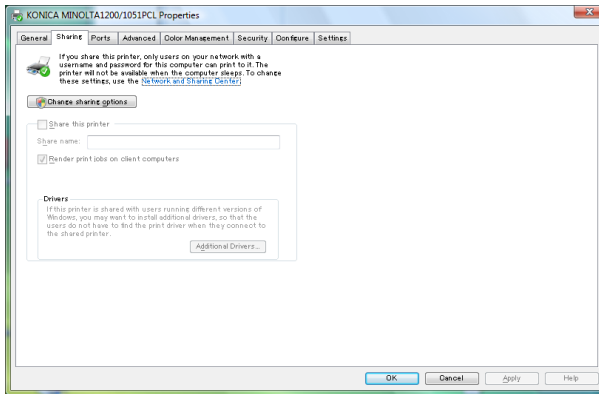


### Note

*For more information, refer to the manual of the Windows.*

## 8.5 Sharing tab

Performs share settings of a printer.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Property window.*

By using this [Sharing] tab, you can make the printer available to network users.

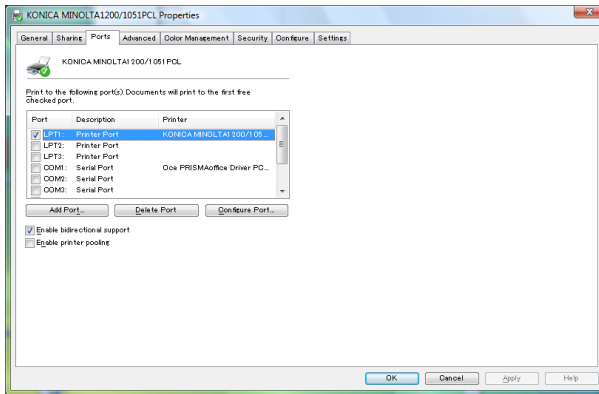


### Note

*For more information, refer to the manual of the Windows.*

## 8.6 Ports tab

Performs settings related to ports.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Property window.*

### Add Port

Using this button enables you to add a new port for Vendor-specific port monitor, TCP/IP or Unix printers (using the LPR port), and so on.

### Delete Port

Deletes the selected port from above list.

### Configure Port

Using this button enables you to configure the selected port from above list.

### Enable printer pooling

Enables printing to two or more identical print devices by using one logical printer.

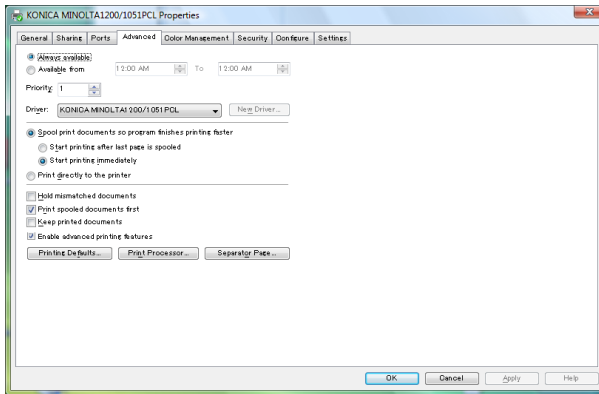


### Note

*For more information, refer to the manual of the Windows.*

## 8.7 Advanced tab

Performs settings regarding drivers, port time out and spooling.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Property window.*

### Always available / Available from

Configures how many hours the printer is available. You can choose from 24 hours or specified hours.

### Priority

Configures the priority of the current setting.

### Driver

Displays the installed printer driver name.

### New Driver

Clicks to install a new or updated printer driver.

### Spool print documents so program finishes printing faster

Sets to spool the documents before printing.

### Print directly to the printer

Sets to print without spooling.

**Hold mismatched documents**

Sets to hold the document which does not match to the printer setup.

**Print spooled documents first**

Sets to print the spooled document irrespective of a priority settings.

**Keep printed documents**

Sets to hold the spooled data of the documents after printing.

**Enable advanced printing features**

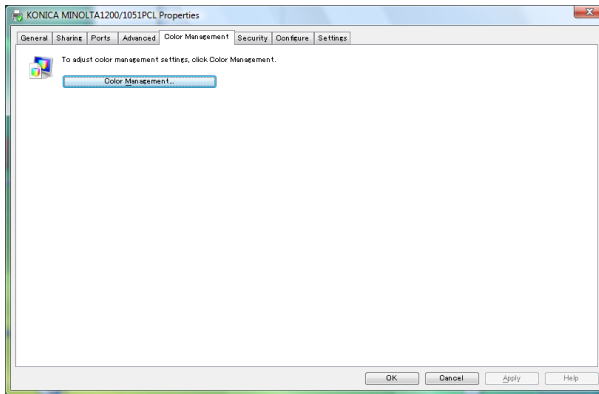
Enables the advanced printing features.

**Note**

*For more information, refer to the manual of the Windows.*

## 8.8 Color Management tab

Performs settings related to color management.



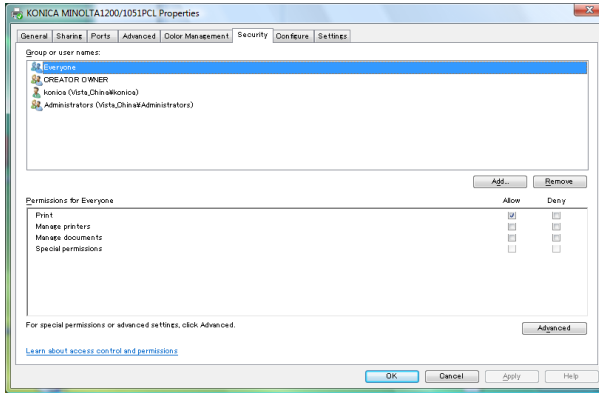
### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Property window.*

*It is not used in this printing system.*

## 8.9 Security tab

Performs settings related to security.



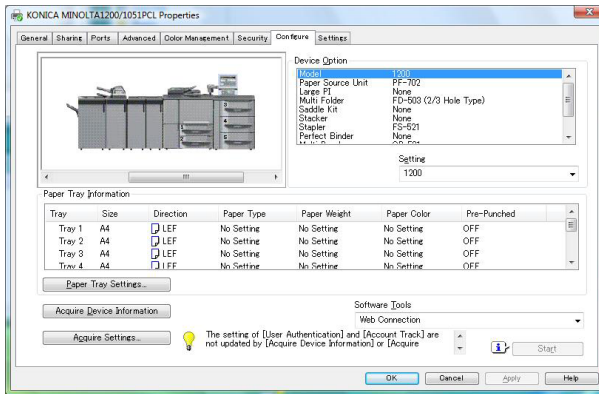
### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Property window.*

*For more information, refer to the manual of the Windows.*

## 8.10 Configure tab

Performs settings of the printer options.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Property window.*

### Device Option

The functions of this machine can be used from the printer driver if the installed options, the User Authentication and Account Track functions are specified.

Model	1200 / 1051
Paper Source Unit	None / PF-702 / PF-703 / PF-702+PF-703 / PF-703 (Two-Linked)
Large PI	None / PF-703 (PI)
Multi Folder	None / FD-503 (2/3 Hole Type) / FD-503 (2/4 Hole Type)
Saddle Kit	None / SD-506
Stacker	None/ LS-505 / LS-505 (Two-Linked)
Stapler	None / FS-521
Perfect Binder	None / PB-502/503
Multi Punch	None / GP-501
User Authentication	Disable / ON (Device)
Account Track	Disable / Enable

**Note**

*Be sure to select the options from the "Device Option".*

**Paper Type Settings**

Indicates the paper type specified for each tray.

Click the [Paper Tray Settings] to specify the settings for each paper tray.

**Acquire Device Information**

Communicate with the copier to read the condition of the Driver Option and that of the Paper Tray.

**Note**

*The [Acquire Device Information] function cannot be used unless you are connected and able to communicate with the copier.*

**Acquire Settings**

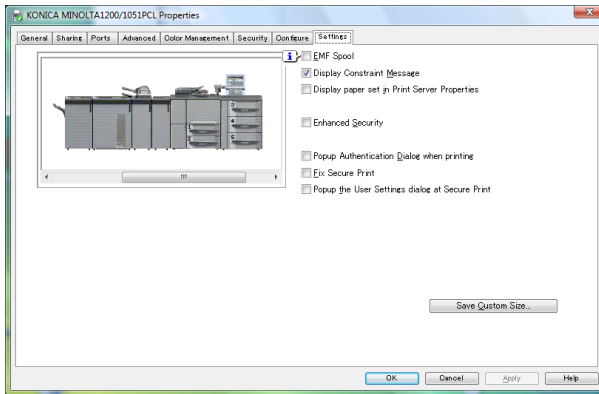
Specifies the conditions of the connection destination to execute Acquire Device Information.

**Software Tools**

Starts up software tools such as PageScope Web Connection.

## 8.11 Settings tab

Performs settings of the printer.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Property window.*

### EMF Spool

Select this check box when meta file (EMF) spool is required for use in its own system environment.

### Display paper set in Print Server Properties

Uses the paper that was added in [Server Properties] of the printer folder.

### Enhanced Security

By turning ON the [Enhanced Security], you can enter nothing anymore to the password input field for the following functions so that the password cannot be transmitted from the printer driver to the printing system through the network:

- Secure Print (page 8-23)
- User Authentication/Account Track (page 8-28)

To print using these functions, you should enter the password on the control panel of the copier after transmitting the print data. Refer to "User's Guide (Security)" for more information.

### Popup Authentication Dialog when printing

Displays the User Authentication/Account Track dialog box when a print job is specified to enter a user name or a department name.

### Fix Secure Print

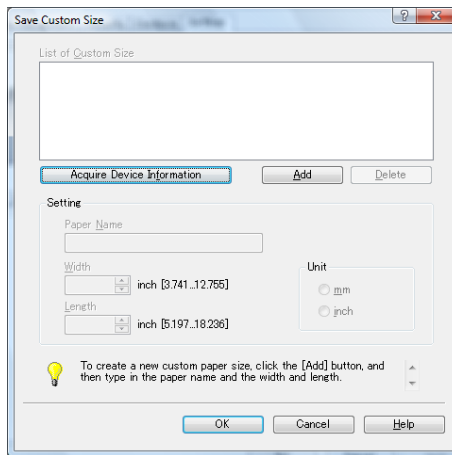
Turn on the checkbox when the output method of Basic tab is fixed to the Secure Print.

### Popup the User Settings dialog at Secure Print

Displays the User Settings dialog box when a secure print is specified.

### Save Custom Size

Saves the custom paper sizes.

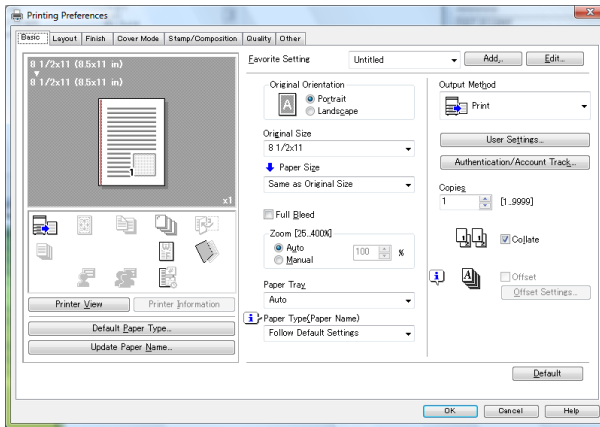


### Acquire Device Information

Communicate with the copier to read the Custom size that has been registered and display it in the list.

## 8.12 Basic tab

Performs basic settings of the printer.



### Detail

*The method to open the Printing Preference window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Printing Preference window.*

### Paper - Orientation

Sets the orientation to output paper in [Portrait] or [Landscape].

The default is [Portrait].

### Paper - Original Size

You can select a original size from the list shown by clicking [▼].

#### Document size that can be selected

12 x 18

11 x 17

9 x 11

8 1/2 x 14

8 x 13

8 1/2 x 13

8 1/4 x 13

8 1/8 x 13 1/4

8 1/2 x 11

Document size that can be selected
5 1/2 x 8 1/2
SRA3
SRA4
A3
A4
A5
B4
B5
ISO-B4
ISO-B5
8K
16K
Postcard
12 x 18W
11 x 17 W
8 1/2 x 11 W
5 1/2 x 8 1/2 W
A3 W
A4 W
A5 W
B4 W
B5 W
ISO-B4 W
ISO-B5 W
8 1/2 x 11 Tab
A4 Tab
Custom Size

**Note**

*When [Custom Size] is selected, it is possible to set and register the original size.*

*The selection of "8K" and/or "16K" is available. However, they cannot be used.*

## Paper - Paper Size

You can select a paper size from the list shown by clicking [▼].

Document size that can be selected
Same as Original Size
Original Size x 2
12 x 18
11 x 17
9 x 11
8 1/2 x 14
8 x 13
8 1/2 x 13
8 1/4 x 13
8 1/8 x 13 1/4
8 1/2 x 11
5 1/2 x 8 1/2
SRA3
SRA4
A3
A4
A5
B4
B5
ISO-B4
ISO-B5
8K
16K
Postcard
12 x 18W
11 x 17 W
8 1/2 x 11 W
5 1/2 x 8 1/2 W
A3 W
A4 W
A5 W
B4 W

Document size that can be selected
B5 W
ISO-B4 W
ISO-B5 W
8 1/2 x 11 Tab
A4 Tab
Custom Size



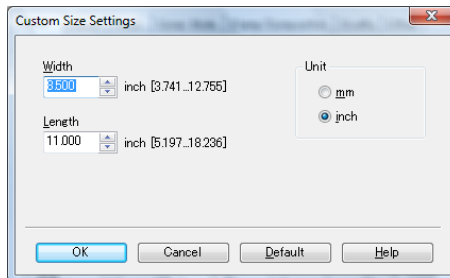
### Note

*The default is the Same as original size.*

*The selection of "8K" and/or "16K" is available. However, they cannot be used.*

### Custom Size Settings

When [Custom Size] is selected from the [Original Size] or the [Paper Size], [Custom Size Settings] dialog appears.



Width	Set the width of the selected custom size in the list (95-324 mm).
Length	Set the length of the selected custom size in the list for the current tray (132-463.2 mm).
Unit	Select the units for setting [Width] and [Length].

### Full Bleed

Printing is made with no margin left on the paper. Normally, when using a printer for printing, printing is made with margins left on the paper. Setting this function allows you to print an original on paper in full page.

**Note**

*The margin may be left or paper jam may be caused depending on the paper type or the environmental temperature or humidity.*

**Zoom**

Print by specifying the enlargement or reduction ratio in the range from 25% to 400%.

**Paper Tray**

Select and set the paper tray to be used from the list. When [Auto] is set, the printer automatically selects and prints from a suitable paper tray.

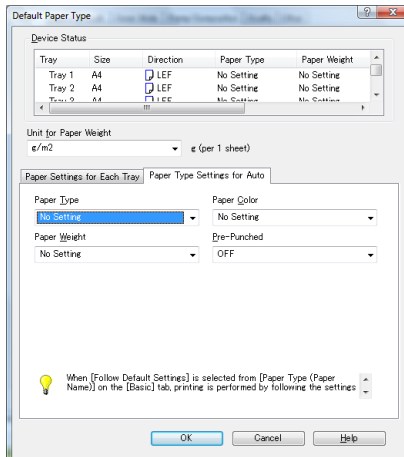
Feed Tray	paper size that can be used.
Tray 1 to Tray 2	12 x 18, 11 x 17, 9 x 11, 8 1/2 x 14, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, 8 1/8 x 13 1/4, 8 1/2 x 11, 5 1/2 x 8 1/2, SRA3, SRA4, A3, A4, A5, B4, B5, ISO-B4, ISO-B5, 8K, 16K, Postcard, 12 x 18W, 11 x 17 W, 8 1/2 x 11 W, 5 1/2 x 8 1/2 W, A3 W, A4 W, A5 W, B4 W, B5 W, ISO-B4 W, ISO-B5 W, 8 1/2 x 11 Tab, A4 Tab, Custom Size
Tray 3 to Tray 8(PF-702/PF-703)	

**Paper Type (Paper Name)**

Make a selection to decide if complying with the Default Setting or using the name registered in the information of the Paper Name.

**Default Paper Type**

Sets various types of paper as the output paper.



## Paper Type

Types of paper that can be selected.	
No Setting	
Plain Paper	
Coated	This is set when printing coated paper such as pamphlet.
PrePrinted	This is set when printing is made additionally on the paper that has been already printed.
Fine	This is set when printing fine paper such as memo paper.
Book/News	This is set when printing paper such as a book or newspaper.
Embossed	This is set when printing embossed paper such as tickets.
Blank Insert	This is set when printing blank paper such as cover sheet.

## Paper Color

Sets various colors of paper as the output paper as shown below

- No Setting
- White
- Clear
- Yellow
- Pink
- Blue
- Green

## Paper Weight

Sets various weights of paper as the output paper as shown below.

No Setting	40-49g/m <sup>2</sup>	50-61g/m <sup>2</sup>	62-71g/m <sup>2</sup>	72-91g/m <sup>2</sup>
92-130g/m <sup>2</sup>	131-161g/m <sup>2</sup>	162-216g/m <sup>2</sup>	217-244g/m <sup>2</sup>	245-300g/m <sup>2</sup>
301-350g/m <sup>2</sup>				

[245-300g/m<sup>2</sup>] or [301-350g/m<sup>2</sup>] cannot be set in the following cases:

- When [Paper Source Unit] is not available in the [Configure] dialog box.

## Pre-Punched

Sets whether the paper as the output paper is pre-punched or not.



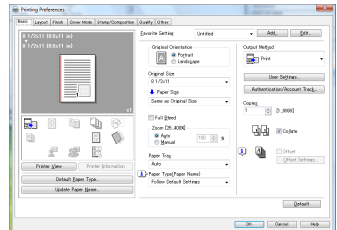
## Output Method - Secure Print

Used when highly confidential documents are printed.

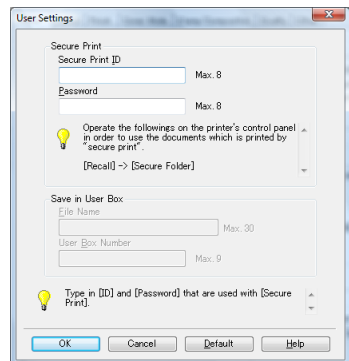
If you print with the Secure Print feature, the printing does not start until you input the Secure Print ID and the password on the copier's control panel.

- 1 Open the file to be printed and select [File] - [Print] of application.
- 2 Click [Preferences] to open the [Printing Preferences] window.
- 3 Select [Secure Print] in the [Output Method].

[Secure Print Settings] window appears.




- 4 Enter [Secure Print ID] and [Password].
  - Secure Print ID: Enter the confidential box name.
  - Password: Enter the password.



- 5 Click [OK].
- 6 Click [OK] to close the [Printing Preferences] window.
- 7 Click [Print] to perform printing from the application.
- 8 Select [RECALL] on the touch panel of the copier.
- 9 Press [Secure Folder].



- 10 Select a box.  
Password Input screen appears.
- 11 Enter [Password].
- 12 Press [OK] to close Password Input screen.
- 13 Select the file to print and press .



- 14 Select [Auto], press [Print], and press the [OK].  
Confidential file is printed.

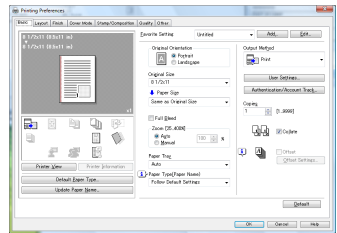
**Detail**

*To confirm the settings for Output, select [Wait] or [Proof], and press [OK].*

## Output Method - Save in User Box/Save in User Box/Print

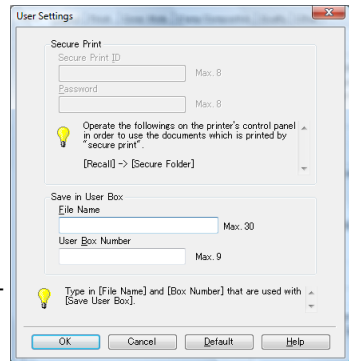
You can store the print job as image data on the copier's internal hard disk to re-output them when necessary. To output, operate on the control panel.

- 1 Open the file to be printed and select [File] - [Print] of application.
- 2 Click [Preferences] to open [Printing Preferences] window.
- 3 Select [Save in User Box] or [Save in User Box/Print] in the [Output Method].
  - Selecting [Save in User Box] stores the print job on the internal hard disk.
  - Selecting [Save in User Box/Print] stores the print job on the internal hard disk and prints one copy.



- 4 Enter [File Name] and [User Box Number] and click [OK].
- 5 Click [OK] to close the [Printing Preferences] window.
- 6 Click [Print] to perform printing from the application.

The print jobs will be saved in the built-in hard disk (HDD-A) of the copier.



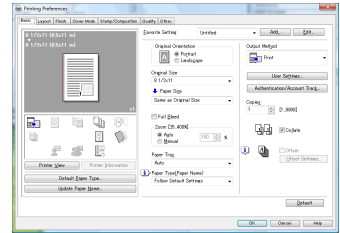
### Detail

*For details of the method for outputting the print jobs saved (Output from the HDD-A), refer to the User's Guide (Network Scanner).*

## Output Method - Wait Mode/Proof Print/Proof and Print (1st sheet)

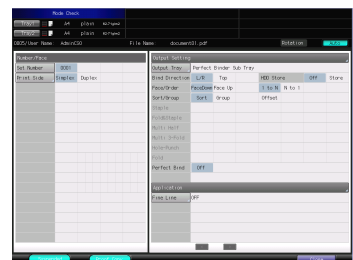
Outputs the test print and checks current setting from the control panel of copier. Use this when printing a large volume document, such as multiple sets of pages.

- 1 Open the file to be printed and select [File] - [Print] of application.
- 2 Click [Preferences] to open the [Printing Preferences] window.
- 3 Select [Wait Mode], [Proof Print] or [Proof and Print (1st sheet)] in the [Output Method].
  - Select [Wait Mode] to wait before printing the document to check the current setting from the control panel of copier.
  - Select [Proof Print] to print the one copy as a test to check the output and the current setting from the control panel of copier.
  - Select [Proof and Print (1st sheet)] if you want to print only the first page for checking the current setting.
- 4 Click [OK] to close the [Printing Preferences] window.
- 5 Click [Print] to perform printing from the application.
  - When [Wait Mode] is selected, it stops without being printed.
  - When [Proof Print] is selected, only one set is printed and it stops.
  - Select [Proof and Print (1st sheet)] if you want to print only the first page for checking the current setting.



The copier is stopped temporarily and the Mode Check screen is displayed.

- 6 Confirm the current settings.
  - If you do not change any setting, proceed to the step 9.
  - Click [Suspended] to move the JOB to [Suspend] in the JOB list.
  - When [Proof Print] is selected, only one set is printed and it stops.
  - If [Proof and Print (1st sheet)] is clicked, only the first page is printed and the copier is stopped temporarily.



- 7 If necessary, select the item and change settings.
- 8 Press the [OK].  
The Mode Check screen will be restored.
- 9 Press [START] to resume the rest of the print job.

### Output Method - Hold Print

You can save a JOB in the copier temporarily and print it from the control panel as required. Use this function when you want to print more than one document in batch.

- 1 Open the file to be printed and select [File] - [Print] of application.
- 2 Click [Preferences] to open the [Printing Preferences] window.
- 3 Select [Hold Print].
- 4 Click [OK] to close the [Printing Preferences] window.
- 5 Click [Print] to perform printing from the application.  
The JOB is transmitted to the copier as the suspended JOB.
- 6 Select [JOB LIST] tab on the control panel of the copier.
- 7 Select a JOB you want to print from the [Suspend] list and click [Release].
  - The JOB is released from being suspended and moved to the [Active] list.
  - Click [Ticket Edit] to change the JOB settings.
  - Click [All Release] to move all of the suspended JOB to the [Active] list.
- 8 Select [MACHINE] tab and press [START].  
The print job is printed.



## User Settings

A user setting is made for execution of [Secure Print]/[Save in User Box].

- Secure Print ID: Enter the Secure Print ID.
- Password: Enter the Password.
- File Name: Enter a file name when a file is saved in the box.
- User Box Number: Enter a box number of a box into which a job is saved.

## Authentication/Account Track

Sets the User Authentication mode/Account Track.



### Detail

*Contact your administrator about User Authentication/Account Track.*

User Authentication	
Public User	Select when you access as Public user to the image controller.
Recipient User	Select when you access as Recipient user to the image controller.
User Name	Enter the Recipient User Name when the [Recipient User] is selected.
Password	Enter the Recipient Password when the [Recipient User] is selected.

Account Track	
Account Name	Enter the Department Name.
Password	Enter the password.



### Detail

*Refer to the "User's Guide (Copier or Main Body)" for more information about User Authentication and Account Track.*

## Copies

Sets the number of copies to be printed.

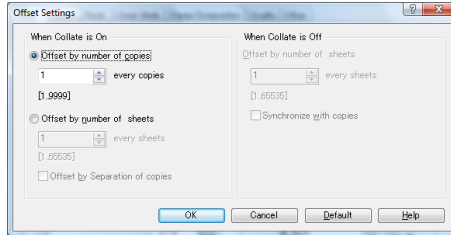
## Collate

Prints the first one set of prints in one lot, and then the second set of prints, the third set of prints, when printing multiple sets of pages.

## Offset

Only when the finisher unit has been setup, select to shift the next position of each set of print out back and forth when printing multi set of copies.

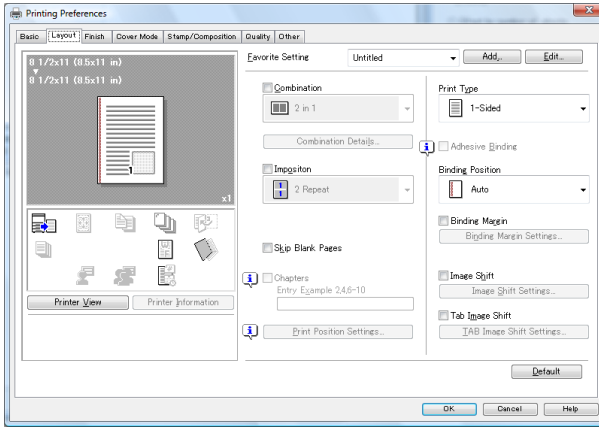
Click [Offset Settings] with a check put in [Offset] to display the [Offset Settings] window. And in this window thus displayed, a setting is made.



Offset by number of copies	The number of copies is set when sorted by copies.
Offset by number of sheets	The number of sheets is set when sorted by sheets.
Offset by Separation of copies	A selection is made when sorted at the end of the number of copies after being sorted by sheets.
Synchronize with copies	A selection is made when sorted in gear with copies with [Collate] set to OFF.

## 8.13 Layout tab

Performs layout settings of the printer.

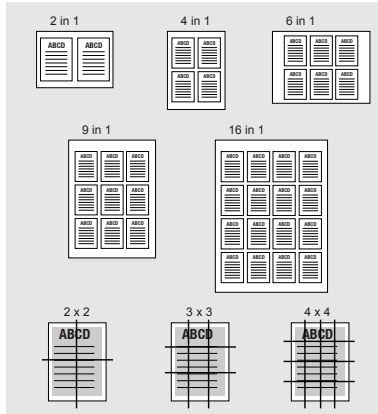


### Detail

*The method to open the Printing Preference window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Printing Preference window.*

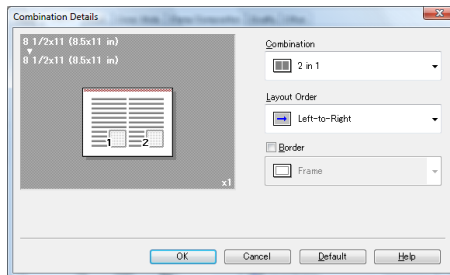
## Combination

Prints multiple pages onto a single sheet of the paper. The page that has been allocated is reduced for “N in 1” and enlarged for “N x N” against the document.



## Combination Details

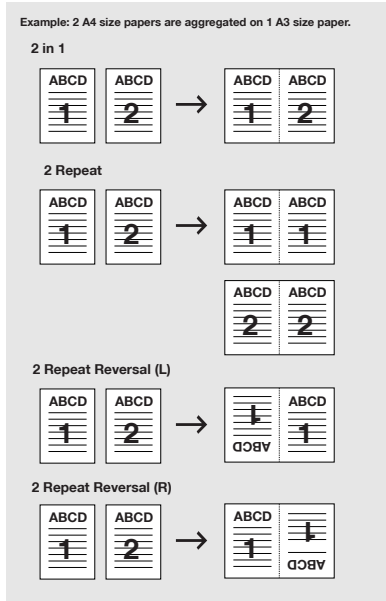
When click the [Combination Details], [Combination Details] dialog appears.



Combination	Selects the number of pages to be printed onto a single sheet.
Layout Order	Selects the printing order of pages.
Border	Selects whether draw a frame or line as the border between pages.
Overlap width line	Selecting “N x N” sets “Overlap width line”.

## Imposition

[2 in 1], [2 Repeat] or [2 Repeat Reversal] setting is available which prints out two page data on one sheet of paper. Two page data is printed out on a sheet of paper twice as large as the selected size of paper.



[Imposition] cannot be set in the following cases:

- When the [Chapter] is available in the [Layout] tab
- When the [Skip Blank Pages] is selected in the [Layout] tab

## Skip Blank Page

Does not print the blank pages.



### Reminder

*Blank pages might be printed out even if this is set, depending on the data in the document.*

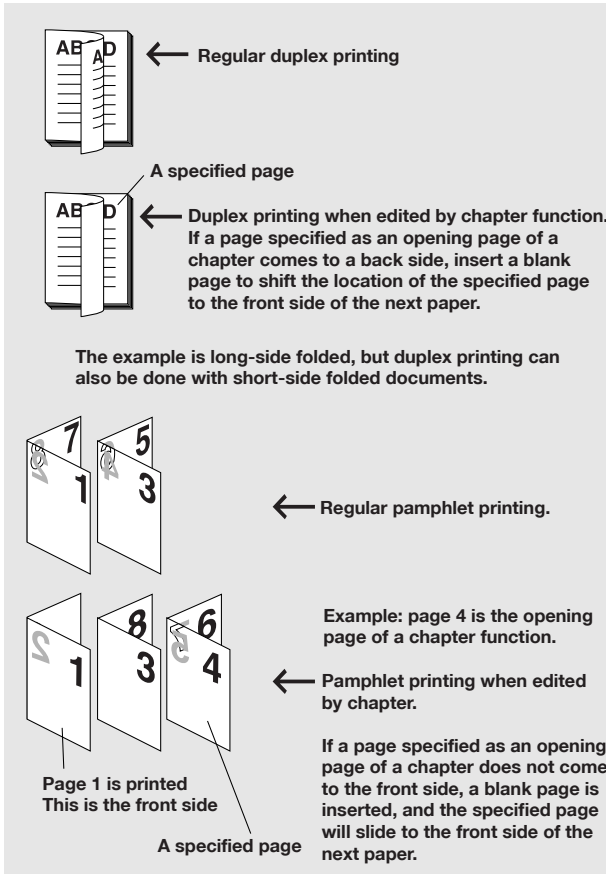
The [Skip Blank Page] cannot be set in the following cases:

- [Combination] is available in [Layout] tab.

## Chapter

For the PCL printer driver, print a specific page so that it comes on the front, when printing on [2-Sided] or [Booklet].

Multiple page numbers can be entered. When entering multiple page numbers, use commas to separate them as in the following example: [2,4,6]. A range can be specified with a hyphen as in the following example: [6-10].

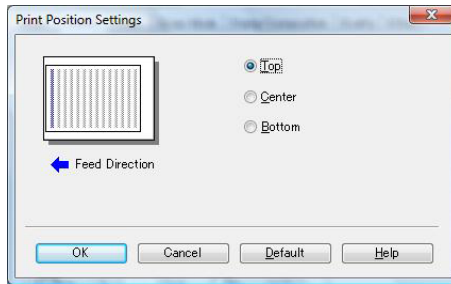


The [Chapter] cannot be set in the following cases:

- The [1-Sided] is selected in the [Layout] tab - [Print Type].
- When the [Fold] check box is ON in [Finish] tab.

## Print Position Settings

When [Print Position Settings] is selected, [Print Position Settings] dialog appears.



Top	Print using the top of the paper.
Center	Print using the center of the paper.
Bottom	Print using the bottom of the paper.

## Print Type

Selects the print type among 1-Sided, 2-Sided and Booklet.

1-Sided prints on one side of the paper.

2-Sided prints on both sides of the paper.

Booklet prints on both sides of the paper and fold the paper. Booklet prints in order which every folded page appears in their original order when gathered at the end.

## Adhesive Binding

Selects when doing adhesive binding using an adhesive binder.

The [Adhesive Binding] cannot be set in the following cases:

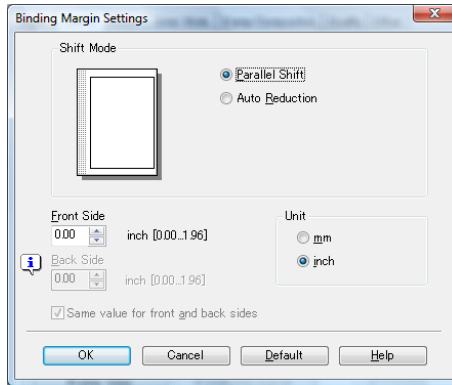
- When an item other than [2-Sided] is selected in the [Layout] tab - [Print Type].

## Binding Position

Sets the binding position for the document to be printed. The position selected here will be the position of stapling, punching and base position of the image shift.

## Binding Margin

Shifts the printing position according to the margin to be defined on the [Binding Margin Settings] dialog.

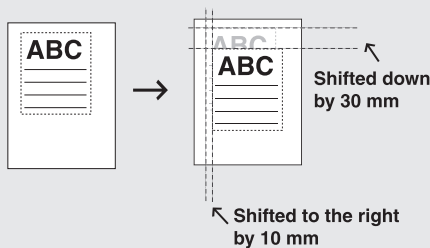


Front Side	Sets the margin for the front side.
Back Side	Sets the margin for the back side.
Same value for front and back sides	Selects to use the same margin for the front and back sides.
Shift Mode	Selects the shift mode. [Parallel Shift] shifts the image parallel. [Auto Reduction] shifts the image parallel and reduce an image to attain a hole print image printed.

## Image Shift

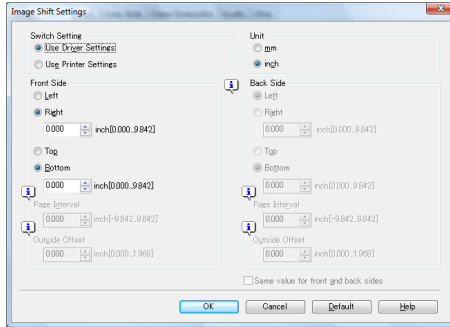
Adjusts the details of the printing position to the output paper.

Ex.: When the settings are shifted to the right by 100 and down by 300. (Unit: 0.1 mm)



### Image Shift Settings

When click this button, the [Image Shift Settings] dialog appears.

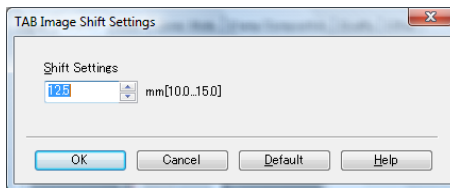


Switch Settings	It specifies whether the Image Shift sets up by the driver side or the printer side.
Unit	Select the units.
Front Side	Set the shift amount for the front side.
Back Side	Set the shift amount for the back side.
Outside Offset	[Outside Offset] is a function to adjust so that the print image is shifted toward the outside as the pages advance, according to the thickness of the folded booklet when the [Booklet] has been set up.
Same value for font and back sides	Set the amount of the back side as that of front side.

### Tab Image Shift

A setting is made when an image is shifted that is to be printed on the tab paper.

Put a check on [Tab Image Shift] and click [TAB Image Shift Settings] to display the [TAB Image Shift Settings] window. And set a shift amount in this window.



This function is used to print the print content of the tab section edited in the original on the tab section of the Tab Paper.

The shift of 10 to 15 mm (at intervals of 0.1 mm) is available only in the right direction.

When setting the tray in which the Page Number and the Tab Paper are set in “Per Page Setting” on page 8-52, the relevant page is shifted to the right by the specified shift amount.

However, since there is no function provided to specify the position of the tab, it is necessary to set up in advance the correct print information at the tab position.



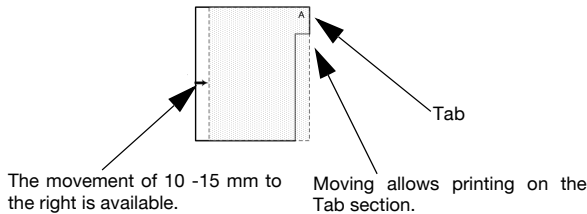
### Detail

*The original sizes that can be used for this function are limited to A4 and Letter.*

*It is necessary that the tray has been set on the copier side.*

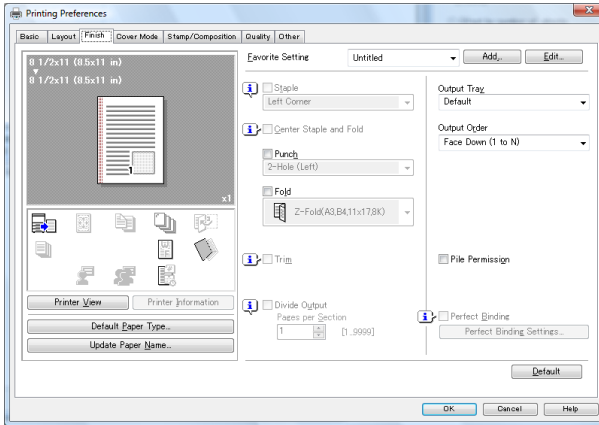
*Even if a shift is made, the original is not enlarged or reduced.*

*The combined use with “Image Shift” on page 8-36 is available.  
(When this function is turned on, the setting of [Image Shift] is applicable only to those other than the Tab Paper.)*



## 8.14 Finish tab

Configures the special functions of the image controller.

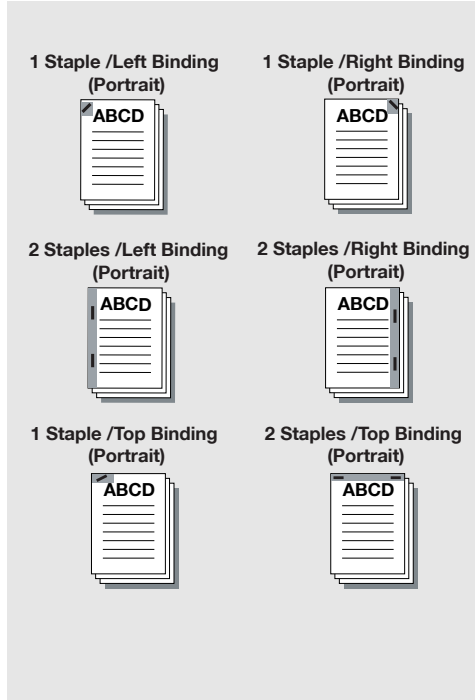


### Detail

*The method to open the Printing Preference window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Printing Preference window.*

## Staple

Staple output paper. The number of staplings and their positions can be set. The selectable position will be changed according with the [Binding Position] setting.



The [Staple] cannot be set in the following cases:

- When [Stapler] is not available in [Configure] tab.
- When [Booklet] is selected in [Layout] tab - [Print Type].

## Center Staple and Fold

Staples at the center of the output paper and folds it into half.

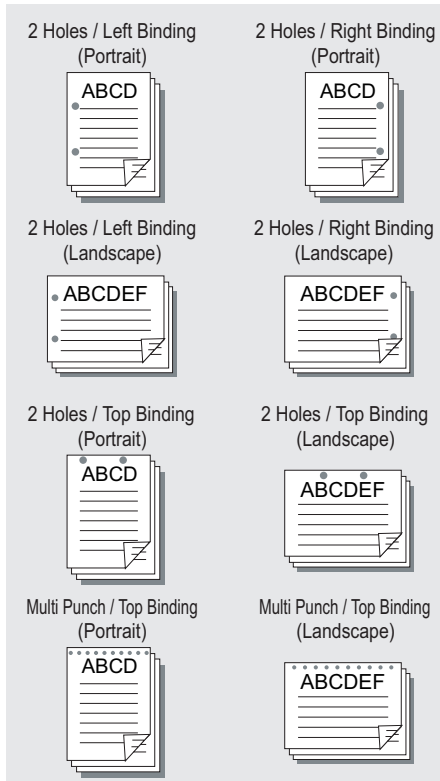
The [Center Staple and Fold] cannot be set in the following cases:

- When [Saddle Kit] is not available in [Configure] tab.

## Punch

The output paper can be set to be punched with 2 holes, 3 holes, 4 holes or Multi Punch.

The position will be changed according with the [Binding Position] setting.



The [Punch] cannot be set in the following cases:















- When [Multi Folder] is not available in [Configure] tab.
- When [Booklet] is selected in [Setup] tab - [Print Type].

The [Multi Punch] cannot be set in the following cases:

- When [Multi Punch] is not available in [Configure] tab.

## Fold

Various ways of the folding can be setup.

	Z-fold
	Half Fold In
	Half Fold Out
	Letter Fold In
	Letter Fold Out
	Zigzag Fold In
	Zigzag Fold Out
	Double Parallel Fold In
	Double Parallel Fold Out
	Gate Fold In
	Gate Fold Out
	Multi-Letter Fold In
	Multi-Letter Fold Out
	Multi-Half Fold

The [Fold] cannot be set in the following cases:

- When the [Chapter] is available in the [Layout] tab

The setting of [Fold] is available when the following unit is installed.

	Multi Folder	Saddle Kit
Z-Fold	<input type="radio"/>	
Half Fold (In/Out)	<input type="radio"/>	
Letter Fold (In/Out)	<input type="radio"/>	
Zigzag Fold (In/Out)	<input type="radio"/>	
Double Parallel Fold (In/Out)	<input type="radio"/>	
Gate Fold (In/Out)	<input type="radio"/>	
Multi-Letter Fold (In/Out)		<input type="radio"/>
Multi-Half Fold		<input type="radio"/>

### Trim

Cuts the edges of the output paper.

The [Trim] cannot be set in the following cases:

- When [Saddle Kit] is not available in [Configure] tab.

### Divide Output

Repeats to staple for every number of pages specified.

The [Divide Output] cannot be set in the following cases:

- When [Staple] is not available in the [Finish] tab.

### Page per Section

When the [Divide Output] is selected, you can set the number of pages for repeating the function.

### Output Tray

Sets [Default], [Main Tray] or [Sub Tray] as [Output Tray].

Each of them can/cannot be set in the following cases:

- [Sub Tray] need to be selected a Finisher on the [Configure] tab, respectively.
- When [Staple] is available in [Finish] tab, items other than [Default] and [Main Tray] cannot be set.

### Output Order

Changes the output order.

[Face Down] outputs paper with the printed side facing down.

[Face Up] outputs paper with the printed side facing up.

“(1 to N)” means to output paper starting with the first page.

“(N to 1)” means to output paper starting with the last page.

### Pile Permission

When another printed document remains in Stacker, gives the permission to stack the output.

Setting the Pile Permission to OFF allows no pile on the stacker.

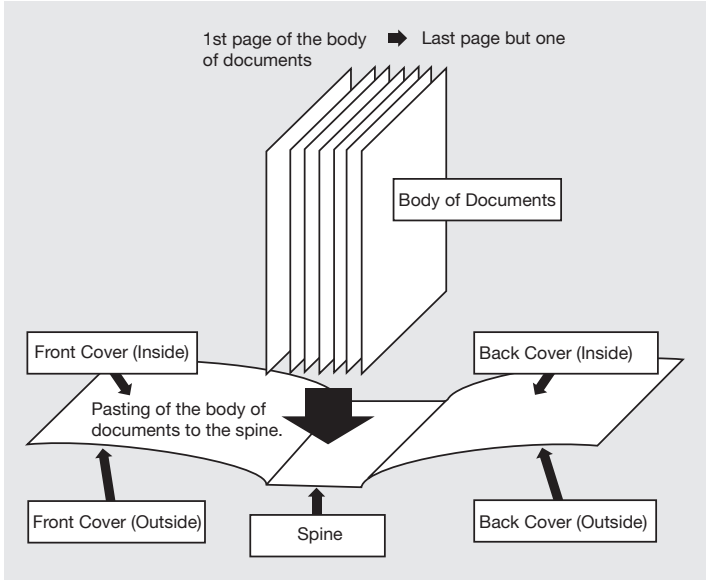
When a job the pile of which is not permitted is on the stacker, no pile is made even if a pile permission is granted.

## Perfect Binding

The perfect binding function is a function with which the originals (the body of documents) the spine of which is pasted by the Perfect Binder (PB-502/503) is rolled-up in the cover sheet for binding.

Perfect Binding cannot be set in the following cases:

- When [PB-502/503] is not selected in [Configure] tab.



- The body of documents are not to be folded and cut out.
- The illustration above shows the example of [Left Binding]. For [Right Binding], see p. 8-35.
- [Left Binding] is specified as a default.

The Paper Size, the Paper Type and the Paper Weight that can be used for [Perfect Binding] are as shown in the table below.

	Size that can be used.	Basic weight that can be used.	Paper type that can be used.
Body of documents	Regular size paper A4, B5, A5, 8.5 x 11, 5.5 x 8.5, 16K  Available only while in the Z-folding. A3, B4, A4R, 11 x 17, 8.5 x 11R, 8K Wide paper corresponding to the sizes above can also be used.  Custom Size Width: 150 - 307 mm Length: 140 - 221 mm	62-91 g/m <sup>2</sup>	Plain Paper Coated Fine Book/News Embossed Blank Insert
Cover	Custom Size Width: (min.) 150 - 307 mm Length: 281 - (max.) 483 mm However, it is necessary that the width of the cover sheet and that of the body of documents are of the same length.	72-161 g/m <sup>2</sup>	



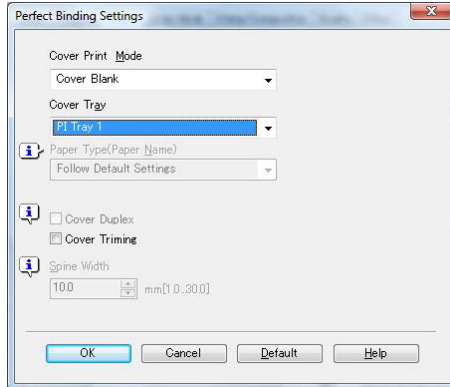
### Note

*The selection of "8K" and/or "16K" is available. However, they cannot be used.*

The width, the length and the weight of the cover sheet vary depending on the tray used. For details, see "User's Guide (Copier or Main Body)".

- ✓ The number of sheets in the body of documents that is bound is 10 to 300.
- 1 Open the document you want to print, and then select [Print] from [File] menu in an application.  
The [Print] dialog appears.
  - 2 Click [Preferences] and open the print setting screen. And then click [Finish] tab.

### 3 Turn ON the [Perfect Binding] and then click [Perfect Binding Settings].



[Perfect Binding] can be set to the following modes.

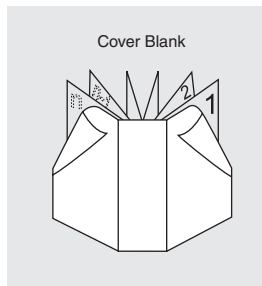
Turn on the [Cover Duplex] check box when printing the cover on both sides and the [Trim] check box when conducting the cover cutting operation.

#### Cover Blank

This is used when the perfect binding is employed with no printing made on the cover sheet.

The original set in the [Cover Tray] is handled as a cover sheet.

Ex.: When using [Cover Blank] for the perfect binding.



### Cover Print 1 in 1

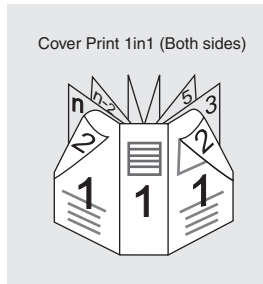
This is used when arrangements are made in advance for the originals the front cover, the back cover and the spine of which have been cut and pasted to the same size as the paper used as the front cover.

When printing the both sides of the front cover, it is necessary to make arrangements for the reverse side of the front cover in advance.

**NOTE:**

The use of [PI Tray] and [PI-PFU Tray] is not available for [Cover Print 1in1].

Ex.: When using [Cover Print 1in1] for the perfect binding.



### Cover Print 2 in 1

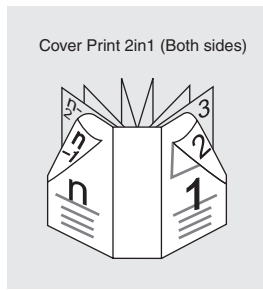
For the front cover, the first page and the last page (n page) of the originals are made as 2in1, and the second page up to the last page but one (n - 1 page) are printed as the body of documents with no printing made on the spine for perfect binding.

And it is necessary to set in advance the width of the spine to the paper thickness. The setting can be made in units of 0.1 mm with the setting range between 1 to 30 mm.

**NOTE:**

The use of [PI Tray] and [PI-PFU Tray] is not available for [Cover Print 2in1].

Ex.: When using [Cover Print 2in1] for the perfect binding.



### Cover Print 3 in 1

After cutting and pasting automatically the first page of the original on the front cover, the last page but one ( $n - 1$  page) on the back cover, and the last page ( $n$  page) on 3in1 as the spine, the front cover is printed.

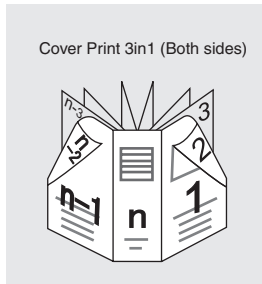
And the second page up to the last page but two ( $n - 2$  page) are printed as the body of documents.

And it is necessary to set in advance the width of the spine to the paper thickness. The setting can be made in units of 0.1 mm with the setting range between 1 to 30 mm.

#### NOTE:

The use of [PI Tray] and [PI-PFU Tray] is not available for [Cover Print 3in1].

Ex.: When using [Cover Print 3in1] for the perfect binding.



### Paper Type (Paper Name)

Make a selection to decide if complying with the Default Setting or using the name registered in the information of the Paper Name.

### Cover Duplex

Turn it [ON] when you want to make the cover of Perfect Binding double-sided.

### Cover Trimming

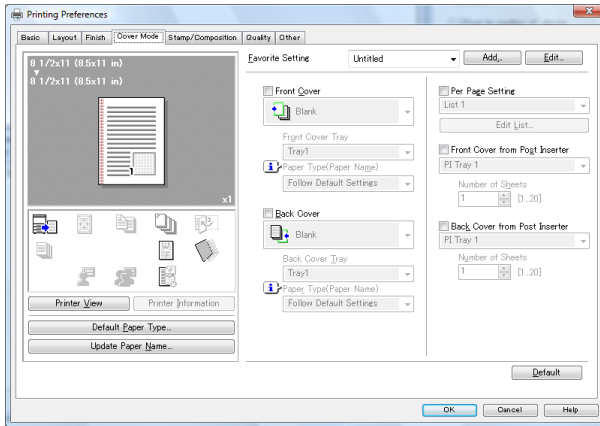
Turn it [ON] when you cut out the cover of Perfect Binding.

### Spine Width

A setting is made for the width of Spine.

## 8.15 Cover Mode tab

You can select several cover settings such as a front and back covers and PI cover sheet. Also, the Chapter setting and Per Page Setting are available.



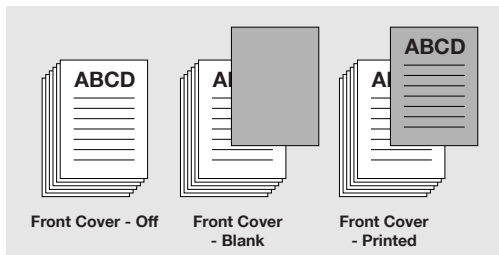
### Detail

The method to open the Printing Preference window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Printing Preference window.

### Front Cover

Sets a front cover type.

- When the [Blank] is selected, a blank sheet is inserted before the 1st page.
- When the [Print] is selected, the 1st page of the document is printed with the specified sheet as the front cover.



The [Front Cover] cannot be set in the following cases:

- When the [Collate] is not available in the [Basic] tab.

### Front Cover Tray

Specifies the paper tray for the front cover.

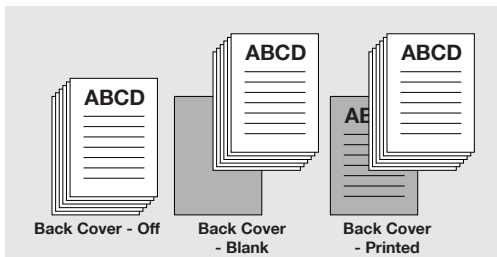
### Paper Type (Paper Name)

Make a selection to decide if complying with the Default Setting or using the name registered in the information of the Paper Name.

### Back Cover

Sets a back cover type.

- When the [Blank] is selected, a blank sheet is inserted after the last page.
- When the [Print] is selected, the last page of the document is printed with the specified sheet as the back cover.



### Back Cover Tray

Specifies the paper tray for the back cover.

### Paper Type (Paper Name)

Make a selection to decide if complying with the Default Setting or using the name registered in the information of the Paper Name.

### Per Page Setting

Sets the specified pages to change [Print Type], [Paper Source] and/or [Staple] settings and to use Tab Paper.

### Per Page Setting - List

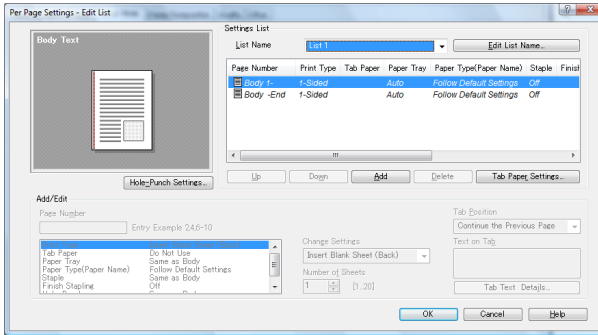
Each Per Page Setting can be saved as a list.

Selects the list name from the list.

### Per Page Setting - Edit List

Edits Per Page Setting.

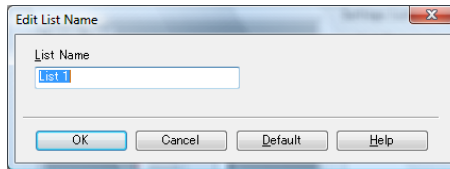
When select the Per Page Setting from the list and click this button, the [Per Page Setting] dialog mentioned above appears.



### Per Page Setting - Edit List Name

Changes the list name.

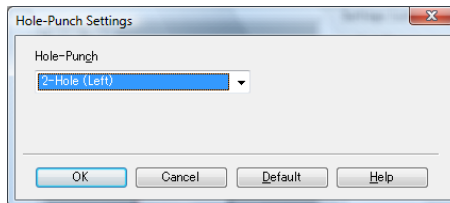
When click this button, the [Edit List Name] dialog appears.



### Per Page Setting - Hole-Punch Settings

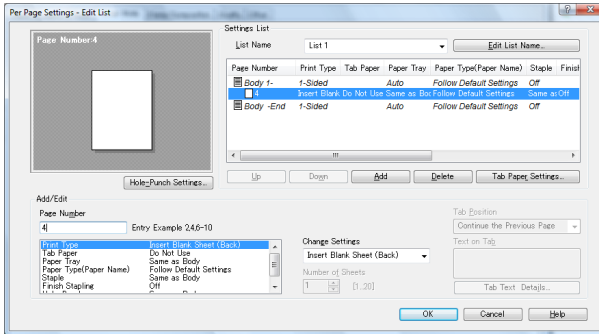
Sets to use the punch function in the Per Page Settings.

When click this button, the [Hole-Punch Settings] dialog appears.



## Per Page Setting - Add

When click this button, you can add Per Page Setting.

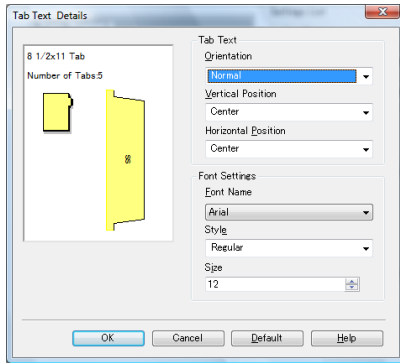


Page Number	Enters the page number (1 to 9999) which you want to set in the Per Page Settings. Multiple page numbers can be entered. When entering multiple page numbers, use commas to separate them as in this example: [2,4,6]. A range can be specified with a hyphen as in this example: [6-10]. For [Page Number], the specification of up to 100 page domains is available.
Print Type:	As a print type of the Per Page Settings, specify either [Insert Blank Sheet], [Print (1-Sided)] or [Print (2-Sided)]. <b>See note below.</b>
Tab Paper	Select [Tab1] or [Tab2] when using the Tab paper. This can not be set when [Same as Body] is selected in the [Paper Tray] of the [Per Page Setting] dialog.
Paper Tray:	Specifies the paper feed tray to be used in the Per Page Settings. Selecting [Same as Body] sets the same one as that set in [Paper Tray] of the [Basic] tab.
Paper Type (Paper Name)	Using [Per Page Setting] specifies the information of the Paper Name that is related to the Paper Tray.
Staple:	A setting is made to decide if the Per Page Settings are stapled or not. When [Same as Body] is selected, the setting is the same one as that set in [Staple] of the [Finish] tab.
Finish Stapling	Specifies the last page to be stapled.
Hole-Punch	A setting is made to decide whether or not the punch function of [Per Page Settings] is used.
Tab position	Selects the tab position.
Text on Tab	Enters the text to be printed on the Tab paper.

**Print Type Note: Insertion sheet (Blank) can be specified aside from Front Cover/Back Cover on [Insert Blank Sheet]. The range specification is from page 1 to page 9999.**

## Tab Text Details

When this button is clicked, the [Tab Text Details] dialog appears. You can configure the orientation, position, font name, font type, and font size.



## Tab Text

Set the orientation and position of the tab text.

## Font Settings

Set the font, font style and size of the tab text.

### Per Page Setting - Delete

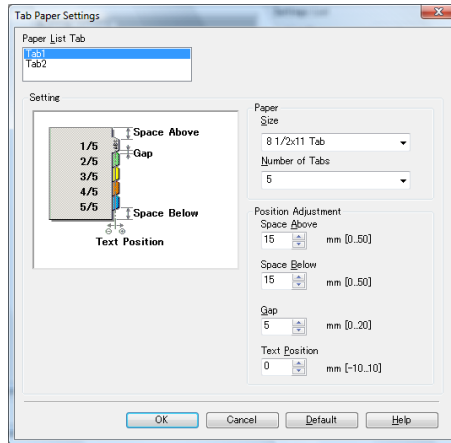
Deletes Per Page Setting.

When select the Per Page Setting from the list and click this button, the selected setting is deleted.

## Per Page Setting - Tab Paper Settings

By clicking the [Tab Paper Settings], the [Tab Paper Settings] window is displayed.

In the [Tab Paper Settings] window, header characters and other details can be set for the tab sheet.



Paper List Tab	The sorting of the Tab Paper that is set is specified.
Paper - Size	Select the tab paper size.
Number of Tabs	Select the number of tabs.
Position Adjustment - Space Above	Set the top space above the first tab.
Position Adjustment - Space Below	Set the top space under the last tab.
Position Adjustment - Gap	Set the space between each tab.
Position Adjustment - Text Position	Set the text position in each tab.

## Front Cover from Post Inserter

Sets a front cover for which the paper is from the PI Tray 1, PI Tray 2 or PI-PFU Tray 1 - 3.

And also, the continuous insertion of up to 20 sheets is available for each of the Front cover/Back cover.

The [Front Cover from Post Inserter] cannot be set in the following cases:

- When the [Multi Folder] or [Large PI] is not selected in the [Configure] tab.

**Back Cover from Post Inserter**

Sets a back cover for which the paper is from the PI Tray 1, PI Tray 2 or PI-PFU Tray 1 - 3.

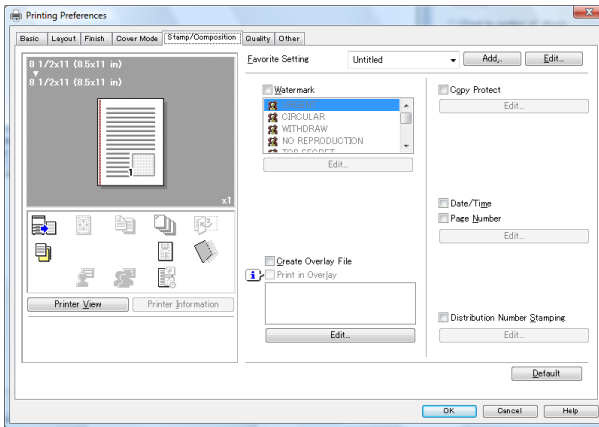
And also, the continuous insertion of up to 20 sheets is available for each of the Front cover/Back cover.

The [Back Cover from Post Inserter] cannot be set in the following cases:

- When the [Multi Folder] or [Large PI] is not selected in the [Configure] tab.

## 8.16 Stamp/Composition tab

Performs settings related to definitions of Watermark.



### Detail

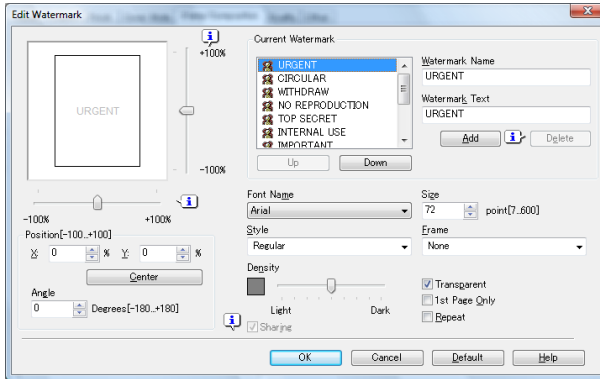
*The method to open the Printing Preference window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Printing Preference window.*

### Watermark

This check box is ON, Watermark function is available. You can select the type of Watermark.

## Watermark - Edit

By clicking the [Edit], [Edit Watermark] window appears.



### Add

When the [Add] is clicked, blank appears in the [Current Watermark].

Input the watermark name in the [Watermark Name] and the new watermark text in the [Watermark Text], new watermark text appears in the [Current Watermark].

### Delete

Clicks this to delete the current watermark.

### Watermark Name

Enter the Watermark Name.

### Watermark Text

Selects the text to be printed as a watermark from the list.

### Font Name

You can select only one font per watermark from the list shown by clicking the [▼].

### Size

Selects a point size for the font to be used in your watermark by clicking the [▼] or [▲] or by entering the size from the keyboard directly.

## Style

You can select style from the list shown by clicking the [▼].

- When [Regular] is selected, normal formatting will be applied to your selected watermark text.
- When [Bold] is selected, bold formatting will be applied to your selected watermark text.
- When [Italic] is selected, italic formatting will be applied to your selected watermark text.
- When [Bold Italic] is selected, bold italic formatting will be applied to your selected watermark text.

## Frame

A setting is made when a frame is applied to the watermark font.

## Density

You can control the “density” of the watermark text with this slider. If you slide this to the right, the “density” of the watermark text will be darker. If you slide this to the left, it will be lighter.

## Transparent

Prints the Watermark on top of the document text. The printed text under the Watermark will be obscured.

## Watermark - 1st Page Only

Checks to print the Watermark on the first page only.

## Repeat

A setting is made when the watermark pattern is repeated.

## Position

Controls the position of the watermark on the page by using the vertical and horizontal slider.

## Center

Returns the position of the Current Watermark to the center of the paper.

## Angle

Controls the “lean” angle of the watermark by clicking the [▼] or by typing a number in the text value box from -90 degrees to 90 degrees.

## Sharing

The settings of the watermark are shared with other computers.

### Create Overlay File

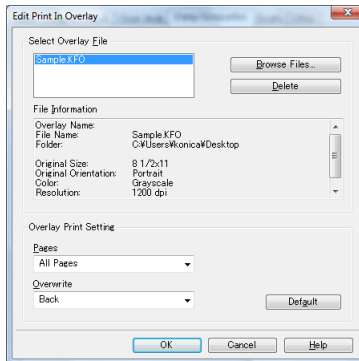
For creating overlays, perform the following procedure.

- 1** Create an overlay with the application in use.
- 2** Select [Print] from the [File] menu.  
The selected menu may differ depending on the application used.
- 3** Select [KONICA MINOLTA1200/1051PCL].
- 4** Click [Preferences].
- 5** Click [Stamp/Composition] tab.
- 6** Select [Create Overlay File].
- 7** Click [OK].  
The [Printing Preferences] window closes.
- 8** Click [Print].
- 9** Specify a location into which an overlay file is saved.
- 10** Input the file name in the [File Name]. and click [Save].
  - Use “.KFO” as the extension.

## Overlay Printing Procedure

When printing overlays, perform the following procedure.

- 1 Select [Print] from the [File] menu.  
The selected menu may differ depending on the application used.
- 2 Select [KONICA MINOLTA1200/1051PCL].
- 3 Click [Preferences].
- 4 Click [Stamp/Composition] tab.
- 5 Click [Print in Overlay] and select file to be printed from list.
  - Click [Edit] and set a printing method to set the overlay printing method.

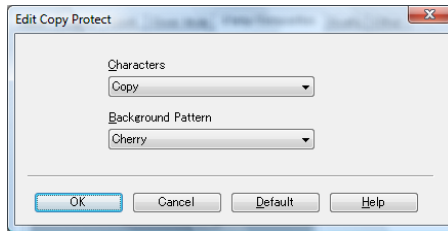


- 6 Click [OK].  
The [Printing Preferences] window closes.
- 7 Click [Print].
  - Turn the [Print in Overlay] check box to OFF after printing has been completed.

Along with the overlay data the document to be printed is printed on top of the overlay data.

## Copy Protect

Click [Edit] with the check box turned on when you want to make printing with the copy protect set to prevent an unauthorized copying.

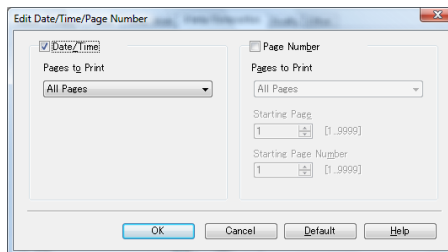


**Characters:** Select a feint character to prevent an unauthorized copying.

**Background Pattern:** Make a selection of the background pattern for printed documents.

## Date/Time

Click [Edit] to specify the pages to print the date and time.

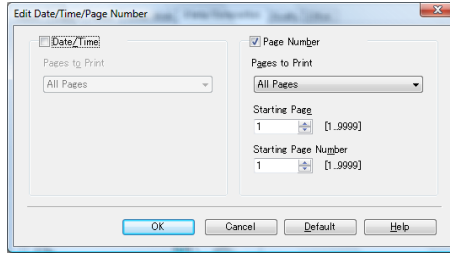


**All pages:** Date/Time is printed in the all pages.

**1st Page Only:** Date/Time is printed in the 1st only

## Page Number

Click [Edit] to specify the pages to print the page numbers.



- All pages: Page number is printed in the all pages.
- Not Front Cover: Page number is printed except front cover.
- Not Front-Back Cover: Page number is printed except front/back cover.

### Page Number - Starting Page

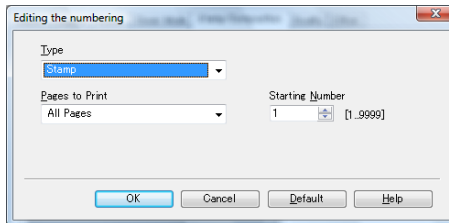
Specifies the first page to print the page numbers.

### Page Number - Starting Page Number

Specifies the initial page number to print.

## Distribution Number Stamping

Click [Edit] to specify the type of the copy number to print.



### Distribution Number Stamping - Type

You can choose either from [Stamp] or [Watermark].

### Distribution Number Stamping - Pages to Print

Specifies the pages to print the copy number.

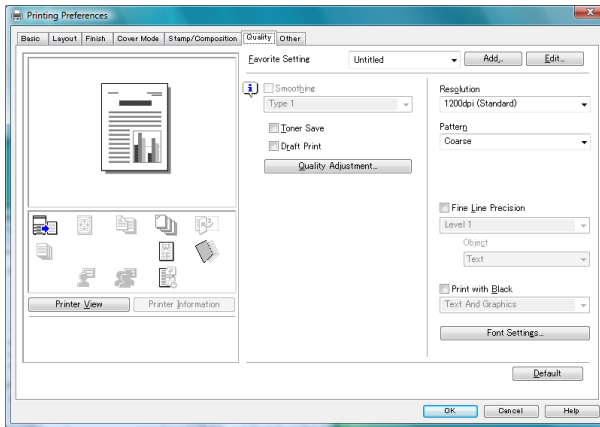
You can choose either from [All Pages] or [1st Page Only].

**Distribution Number Stamping - Starting Number**

Specifies the initial copy number to print.

## 8.17 Quality tab

Performs settings related to Halftones, Brightness and Contrast.

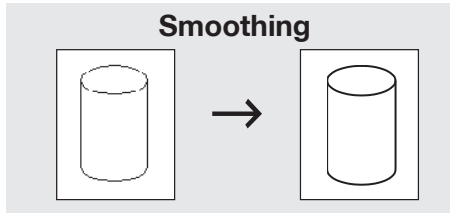


### Detail

*The method to open the Printing Preference window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Printing Preference window.*

### Smoothing

Prints the curved section of characters and images smoothly, when this printing system is used.



- [Type 1] is suitable for printing the diagonal lines of normal characters and graphics.
- [Type 2] is suitable for printing the curved sections of normal characters.
- [Type 3] is suitable for printing the curved sections of ornamental writings and fine characters.
- No [Smoothing] function is available when [Resolution] is set to [1200 dpi].

### Toner Save

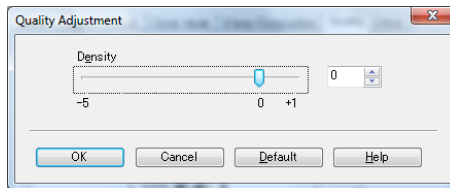
Saves the consumption of toner by controlling printing density.

### Draft Print

Prints lightly, which is suitable for draft documents.

### Quality Adjustment

The print density can be adjusted by the sliding the control bar.





### Detail

*The density is the same for [Density-2] when the setting is made to [Toner Save]. And also for [Density-4], the density is the same as when the setting is made to [Draft Print].*

Item	Print density
0	100%
+1	110%
-1	90%
-2	80%
-3	70%
-4	60%
-5	50%



### Note

*A rule of thumb is used for the value of print density.*

### Resolution

Select [1200dpi (Standard)], [600dpi (Standard)], [1200dpi (High Quality)] or [600dpi (High Quality)] from the list.

### Pattern - Coarse

The [Coarse] prints image with a coarse pattern (dither algorithm).

### Pattern - Fine

The [Fine] prints image with finely detailed pattern (error diffusion).

### Fine Line Precision

A setting is made when you want to make characters fine so that they become easy to read.

A selection is made from among Level 1 and 4 for [Fine Line Precision]. The larger the level number, the more fine the characters printed.

### Object

If [Fine Line Precision] is set, either [Text] or [All-image] must be selected as the precision target.

### Print with Black - Text only

Checking on the [Text only] allows you to print colored characters clearly in black.

### Print with Black - Text And Graphics

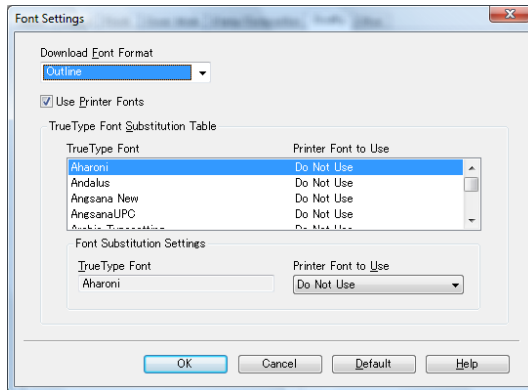
Checking on the [Text and Graphics] allows you to print colored characters and lines, and graphics clearly in black.

### Print with Black - All

Checking on the [All] allows you to print all objects including image data such as picture image excepting white areas clearly in black.

### Font Settings

Performs settings of fonts for printing.



### Download Font Format

Selects the font format to be downloaded to the printer (Outline or BMP).

### Use Printer Font

This printing system allows you to replace the TrueType fonts with printer fonts while in printing. It is also possible to transmit detailed information concerning the replacement of fonts.



#### Reminder

*The TrueType fonts used to display the Windows screen are sent directly to the printer for each font data to be handled while in normal printing.*

*Therefore, the same printing results as displayed on the screen can be obtained.*

*When the printer fonts (those contained in the printer) are used, it is possible to send only character codes to the printer for a high speed printing. On this occasion, printing may not always be made as displayed on the screen. However, since the quantity of data sent to the printer is smaller, it is possible to make a high speed printing.*

### **Use Printer Font - TrueType Font Substitution Table**

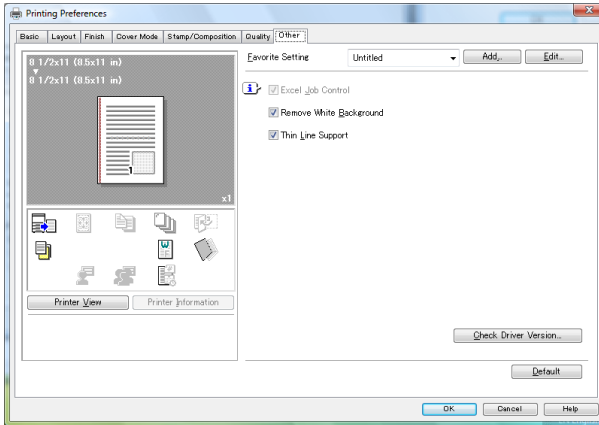
Displays the substitution settings of the True Type Font which is substituted with the built-in printer fonts.

### **Use Printer Font - Font Substitution Settings**

Selects the printer fonts which substitutes for the highlighted True Type Font.

## 8.18 Other tab

Configures the other functions of the image controller.



### Detail

*The method to open the Printing Preference window depends on OS. Refer to "About Properties window" on Page 8-1 about how to open the Printing Preference window.*

### Excel Job Control

When multiple Microsoft Excel sheets with different page settings are printed at one time, the sheets may be separated into single-sheet jobs depending on the data they contain. When this function is selected, job separation is minimized.

**Note**

*“Excel Job Control” and “Remove White Background” settings are not available for Windows XP Professional, Windows Vista and Windows Server 2003 (All 64bit editions).*

*“Excel Job Control” can be changed only when the printer driver setting dialog is displayed in the “Printers” (“Printers and Faxes” for Windows XP/Server 2003) window.*

**Remove White Background**

When an overlay file is printed on top of Microsoft PowerPoint data, white areas are removed so that the white background of the PowerPoint data does not hide the overlay file.

When the check is cleared, the background is not removed and is printed as is in the original data.

**Note**

*“Remove White Background” and “Thin Line Support” function are only for the PCL driver.*

**Thin Line Support**

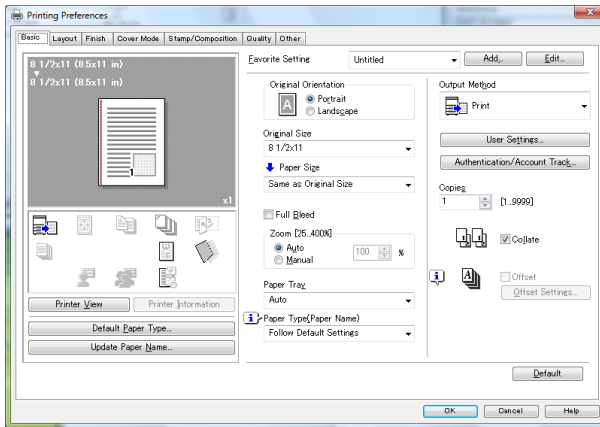
Print the extra-fine lines of the document.

**Check Driver Version**

Displays the version of the current printer driver.

## 8.19 Favorite Setting

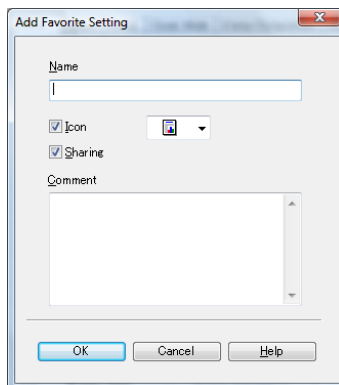
Settings with the printer driver can be saved to be restored as required.



### To Save Setting

Current setting can be saved by the following method:

- 1 Click [Add].
- 2 Enter a name to be saved and then set the [Icon] check box and the [Sharing] check box, if necessary.



- Turning on the [Icon] check box allows you to select an icon to be used from the list.
- Selecting the [Sharing] check box allows you to share the settings that have been saved.

- 3 Click [OK].

Setting is saved and the name entered is displayed on the Favorite Setting list.

### To restore the setting in storage:

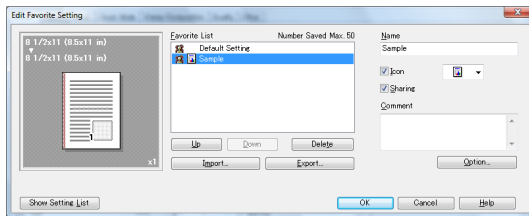
Setting in storage can be restored when required.

- 1 Click [Favorite Setting] menu.
- 2 Select the setting to be restored from the list.

### To import the setting file

Setting file can be imported by the following method:

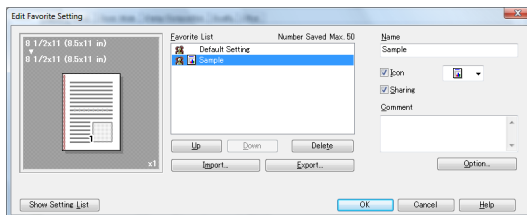
- 1 Click [Edit] of the Favorite Setting.
- 2 Click [Import], select the [Favorite Settings] file (extension: KFS) that you want to import, and then click [Open].



### To export the setting file

Setting file can be exported by the following method:

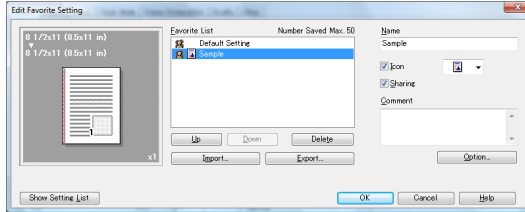
- 1 Click [Edit] of the Favorite Setting.
- 2 Select a file set from the list that you want to export, click [Export], specify a location into which the file is saved, and then click [Save] (extension: KFS).



**To delete the setting file**

Setting file can be deleted by the following method:

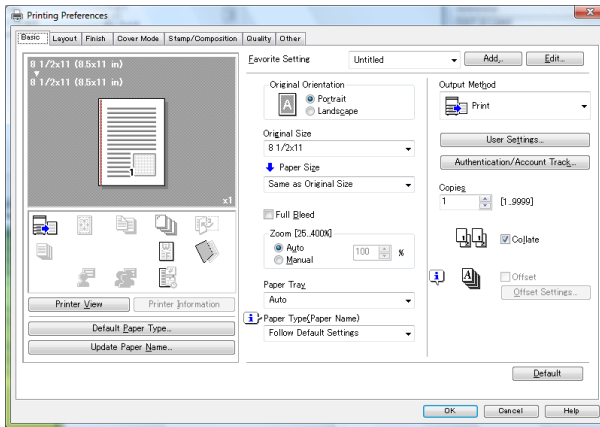
- 1 Click [Edit] of the Favorite Setting.
- 2 Select the file to delete from the list, click [Delete].



- 3 Click [Yes].

## 8.20 About View Area

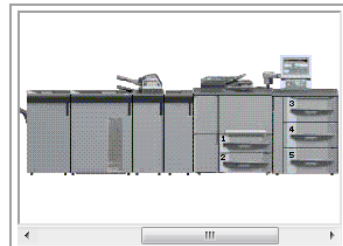
Setting of the printer driver and status of the optional unit can be checked.



### To Check the Status of the Optional Unit

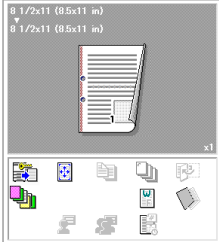
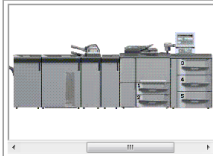




Status of the optional unit can be checked by the image.

- 1 Click [Printer View].



## Image View

The function set up is displayed on view area. The sample of images is shown in the following tables.

Image View	What is set	Image Sample
Paper view	<ul style="list-style-type: none"> <li>• Combination</li> <li>• 2-Sided</li> <li>• Secure Print</li> <li>• Image Shift</li> <li>• Cover</li> <li>• Watermark</li> </ul>	
Printer view	<ul style="list-style-type: none"> <li>• Copier main body /Option</li> <li>• Paper Sources</li> <li>• Output Tray</li> </ul>	
Icon view	<ul style="list-style-type: none"> <li>• Cover/Front Cover Page/Back Cover Page/ Per Page Setting</li> </ul>	
	<ul style="list-style-type: none"> <li>• Watermark</li> </ul>	
	<ul style="list-style-type: none"> <li>• Secure Print</li> </ul>	
	<ul style="list-style-type: none"> <li>• Image Shift</li> </ul>	



### Detail

*Refer to the HELP for more information about Icon view.*

## 9 PostScript PPD Printer Driver setting (Windows)

This chapter describes the settings of the PostScript PPD printer driver. For settings, use the Properties window.

### 9.1 About Properties window

This chapter explains the setting on the PPD printer driver with Properties window of Windows Vista.

The method to open the Properties window depends on OS.

Operating System	Method
Windows 2000	Select [Start]-[Settings]-[Printers] to open the [Printers] folder, right-click the printer icon and select [Properties].
Windows XP/Server 2003	Select [Start]-[Printers and Faxes] to open the [Printers and Faxes] folder, right-click the printer icon and select [Properties].
Windows Vista/Server 2008	Select [Start]-[Control Panel]-[Printers] to open the [Printers] folder, right-click the printer icon and select [Properties].
Windows 7	Select [Start]-[Devices and Printers] to open the [Devices and Printers] window, right-click the printer icon and select [Printer properties].

How to open the printing preference window differs depending on the OS in use.

Operating System	Method
Windows 2000	Select [Start]-[Settings]-[Printers] to open the [Printers] folder, right-click the printer icon and select [Printing Preference]
Windows XP/Server 2003	Select [Start]-[Printers and Faxes] to open the [Printers and Faxes] folder, right-click the printer icon and select [Printing Preference].
Windows Vista/Server 2008	Select [Start]-[Control Panel]-[Printers] to open the [Printers] folder, right-click the printer icon and select [Printing Preference].
Windows 7	Select [Start]-[Devices and Printers] to open the [Devices and Printers] window, right-click the printer icon and select [Printing preferences].

### 9.1.1 Properties window

You have two ways for selecting or changing settings through the printer driver.

#### How to setup in the Properties window of the Printers window

Settings made in the [Properties] of the [Printers] folder are applied to print outs from any application.

#### How to setup with application

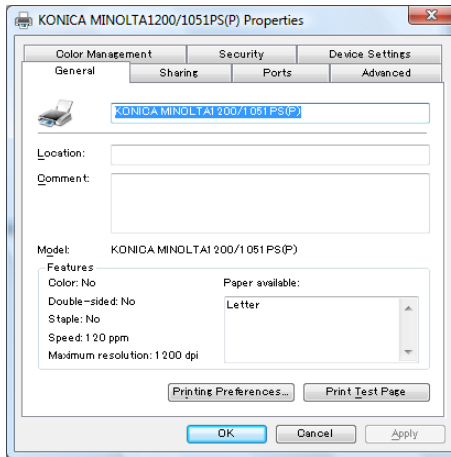
Settings can be made in the print dialog indicated by selecting the print command in the application. In this case, the settings are effective only when the application is in use.

**Note**

*This chapter is described by using the printer window of Windows Vista. The properties window may differ from the window displayed by the printing command of applications.*

## 9.2 About button

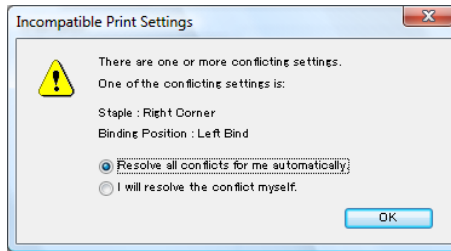
Buttons common to each tab of the [Properties] window are shown below.



Button	Function
OK	When the [OK] is clicked, all tab settings are saved with the close of the properties window.
Cancel	When the [Cancel] is clicked, all tab settings are cancelled with the close of the properties window.
Apply	When the [Apply] is clicked, the present tab settings are saved. This button is useful when you want conduct other settings in other tabs, and the present tab settings are registered before using other tabs.

### 9.3 Combination of the function

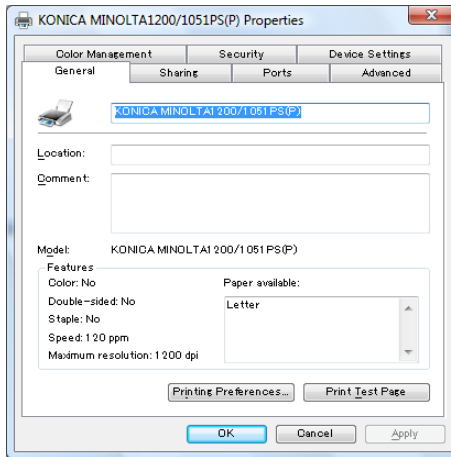
When you select a function which causes a conflict with the settings already configured, the message will be displayed.



This is a confirmation message to decide whether to restore the previous settings or keep the settings. When this message is displayed, select [Resolve all conflicts for me automatically] or [I will resolve the conflict myself]. When selecting [Resolve all conflicts for me automatically], the previous setting will be turned OFF.

## 9.4 General tab

Enables to print a test page.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 9-1 about how to open the Property window.*

### Location

Enters the name of a place where the printer is located. For example, "2nd floor", "Room 101", "Domain ABC" and so on.

### Comment

Enters information about the printer. For example, "User: documentation team", "Maintenance: 123-456-789", and so on.

### Printing Preference

Displays the property window of the selected printer. You can change the setting of the printer driver with the property window.

### Print Test Page

Prints a test page of Windows. You can print a test page without using any application.

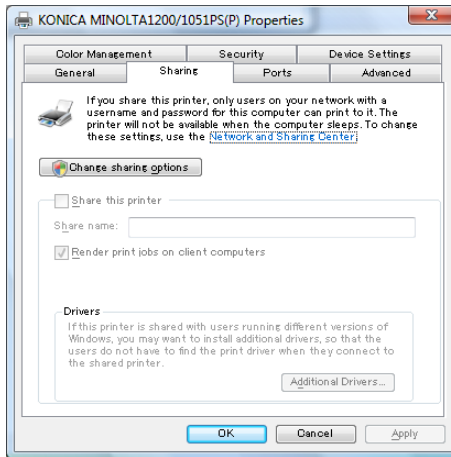


**Note**

*For more information, refer to the manual of the Windows.*

## 9.5 Sharing tab

Performs share settings of a printer.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 9-1 about how to open the Property window.*

By using this [Sharing] tab, you can make the printer available to network users.

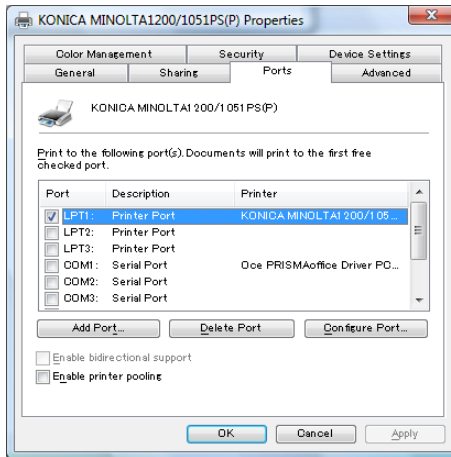


### Note

*For more information, refer to the manual of the Windows.*

## 9.6 Ports tab

Performs settings related to ports.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 9-1 about how to open the Property window.*

### Add Port

Using this button enables you to add a new port for Vendor-specific port monitor, TCP/IP or Unix printers (using the LPR port), and so on.

### Delete Port

Deletes the selected port from above list.

### Configure Port

Using this button enables you to configure the selected port from above list.

### Enable bidirectional support

Gets the status information from the print device.

### Enable printer pooling

Enables printing to two or more identical print devices by using one logical printer.

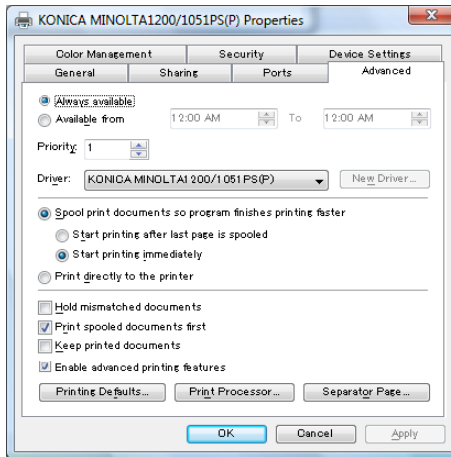


**Note**

*For more information, refer to the manual of the Windows.*

## 9.7 Advanced tab

Performs settings regarding drivers, port time out and spooling.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 9-1 about how to open the Property window.*

### Always available / Available from

Configures how many hours the printer is available. You can choose from 24 hours or specified hours.

### Priority

Configures the priority of the current setting.

### Driver

Displays the installed printer driver name.

### New Driver

Clicks to install a new or updated printer driver.

### Spool print documents so program finishes printing faster

Sets to spool the documents before printing.

**Print directly to the printer**

Sets to print without spooling.

**Hold mismatched documents**

Sets to hold the document which does not match to the printer setup.

**Print spooled documents first**

Sets to print the spooled document irrespective of a priority settings.

**Keep printed documents**

Sets to hold the spooled data of the documents after printing.

**Enable advanced printing features**

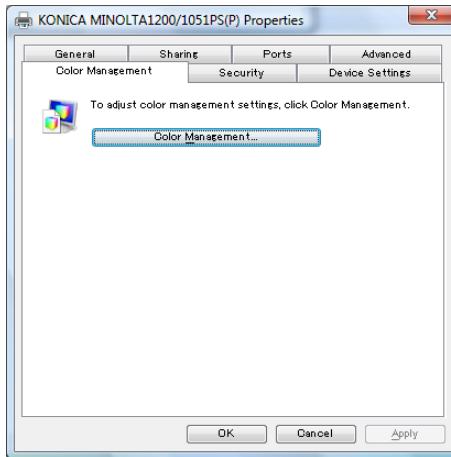
Enables the advanced printing features.

**Note**

*For more information, refer to the manual of the Windows.*

## 9.8 Color Management tab

Performs settings related to color management.



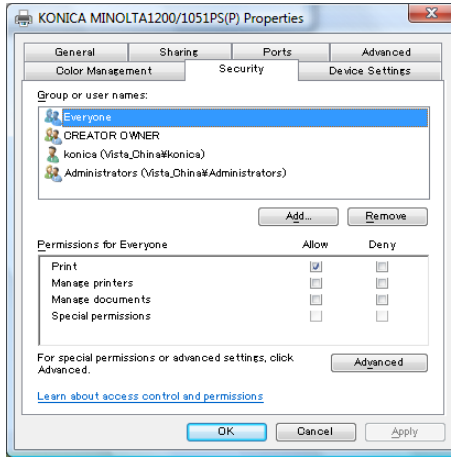
### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 9-1 about how to open the Property window.*

*It is not used in this printing system.*

## 9.9 Security tab

Perform settings for the security.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 9-1 about how to open the Property window.*

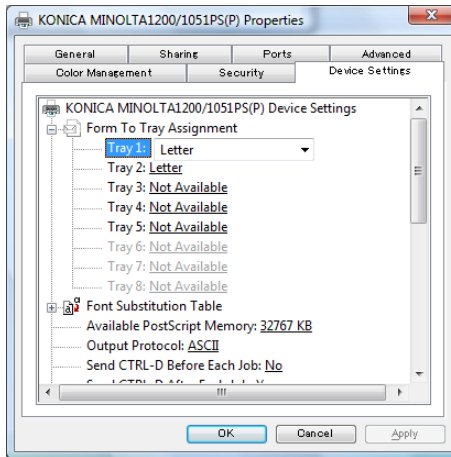


### Note

*For more information about Security tab, refer to the manual of the Windows.*

## 9.10 Device Settings tab

Performs settings of PostScript and the options of the printer.



### Detail

*The method to open the Properties window depends on OS. Refer to "About Properties window" on Page 9-1 about how to open the Property window.*

### From To Tray Assignment

Selects the paper size to print for every Tray.

#### Document size that can be selected

Not Available

11 x 17W

12 x 18

12 x 18W

16K

5 1/2 x 8 1/2W

8 1/2 x 11 Tab

8 1/2 x 11W

8 1/2 x 13

8 1/4 x 13

8 1/8 x 13 1/4

Document size that can be selected
8K
8 x 13
9 x 11
A3
A3 W
A4
A4 Tab
A4 W
A5
A5 W
B4
B4 (ISO)
B4 W
B4 W (ISO)
B5
B5 (ISO)
B5 W
B5 W (ISO)
Japanese Postcard
Legal
Letter
SRA3
SRA4
Statement
Tabloid

**Note**

*The selection of "8K" and/or "16K" is available. However, they cannot be used.*

**Font Substitution Table**

Selects to substitute with printer fonts for the True Type Font or "Don't Substitute".

**Available PostScript Memory**

Displays the available PostScript memory. For more information, refer to the Adobe PS User's Guide.

**Output Protocol**

Selects the output protocol. For more information, refer to the Adobe PS User's Guide.

**Send CTRL-D Before Each Job**

Selects to send a [Ctrl-D] signal to the printer to notify before the print job or not to send. For more information, refer to the Adobe PS User's Guide.

**Send CTRL-D After Each Job**

Selects to send a [Ctrl-D] signal to the printer to notify before the print job or not to send. For more information, refer to the Adobe PS User's Guide.

**Convert Gray Text to PostScript Gray**

Set up whether to convert the gray text in the document to PostScript gray. Refer to the Adobe PS User's Guide.

**Convert Gray Graphics to PostScript Gray**

Set up whether to convert the gray graphics in the document to PostScript gray. Refer to the Adobe PS User's Guide.

**Add Euro Currency Symbol to PostScript Fonts**

Set whether to add the Euro currency symbol to the PostScript font. Refer to the Adobe PS User's Guide.

**Job Timeout**

Specifies a maximum length of time in seconds available for the printer to complete a single print job. For more information, refer to the user's guide of the Adobe PostScript 3.

**Wait Timeout**

Specifies a maximum length of time in seconds during which the printer waits for print data to be fed in from the computer during the printing process. For more information, refer to the Adobe PS User's Guide.

**Minimum Font Size to Download as Outline**

Specifies a minimum font size to download as outline. For more information, refer to the Adobe PS User's Guide.

**Maximum Font Size to Download as Bitmap**

Specifies a maximum font size to download as bitmap. For more information, refer to the Adobe PS User's Guide.

### Installable Option

In this printing system, the following options are installable.

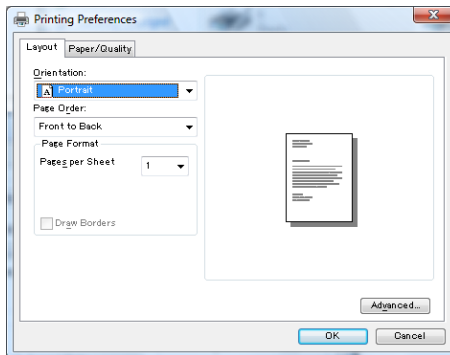
Printer Memory	2GB / 1GB
Stapler	None / FS-521
Saddle-Stitcher	None / SD-506
Stacker	None / LS-505 / LS-505 (Two-Linked)
Multi Folder	None/ FD-503 (2/3 Hole Type) / FD-503 (2/4 Hole Type)
Paper Source Unit	None/PF-702 / PF-703 / PF-702+PF-703 / PF-703 (Two-Linked)
Large PI	None / PF-703 (PI)
Perfect Binder	None / PB-502/503
Multi Hole Punch Unit	None / GP-501

**Note**

*The selection of "1GB" is available. However, it cannot be used.*

## 9.11 Layout tab

Performs settings of the layout.



### Detail

*The method to open the Printing Preference window depends on OS. Refer to "About Properties window" on Page 9-1 about how to open the Printing Preference window.*

### Orientation

Sets the orientation to output paper in [Portrait], [Landscape] or [Rotated Landscape].

### Page Order

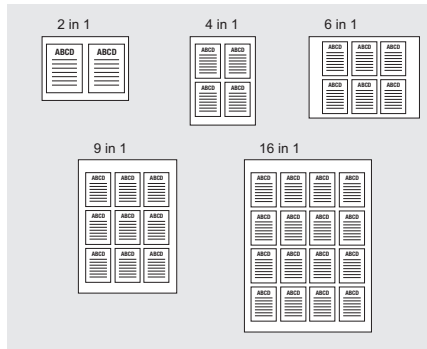
Selects the output order.

[Front to Back] outputs paper starting with the first page.

[Back to Front] outputs paper starting with the last page.

## Pages Per Sheet

Allocates a document of 1 page, 2 pages, 4 pages, 6 pages, 9 pages or 16 pages onto a single page for printing. The allocated pages are automatically reduced for printing based on the printable area of the output paper.

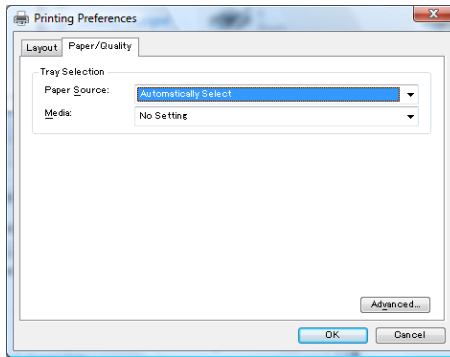


## Advanced

Opens the [KONICA MINOLTA1200/1051PS(P) Advanced Options] window. For more information, refer to "Advanced Options windows" on Page 9-23.

## 9.12 Paper/Quality tab

Performs settings of the paper and quality.



### Detail

*The method to open the Printing Preference window depends on OS. Refer to "About Properties window" on Page 9-1 about how to open the Printing Preference window.*

### Paper Source

Selects and set the paper tray to be used from the list. When the [Automatically Select] is set, the printer automatically selects and prints from a suitable paper tray.

Feed Tray	paper size that can be used.
Tray 1 to Tray 2	11 x 17W, 12 x 18, 12 x 18W, 16K, 5 1/2 x 8 1/2W, 8 1/2 x 11 Tab, 8 1/2 x 11W, 8 1/2 x 13, 8 1/4 x 13, 8 1/8 x 13 1/4, 8K, 8 x 13, 9 x 11, A3, A3 W, A4, A4 Tab, A4 W, A5, A5 W, B4, B4 (ISO), B4 W, B4 W (ISO), B5, B5 (ISO), B5 W, B5 W (ISO), Japanese Postcard, Legal, Letter, SRA3, SRA4, Statement, Tabloid
Tray 3 to Tray 8 (PF-702/PF-703)	

## Media

Selects the type of paper as the output paper as shown below.

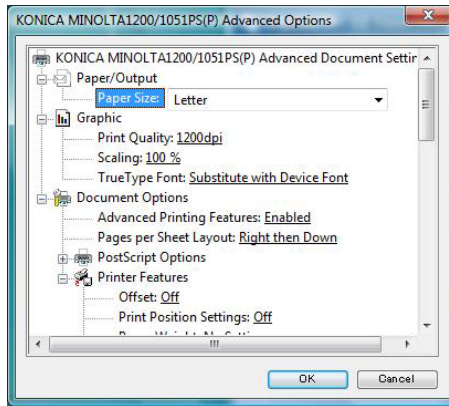
Types of paper that can be selected.	
No Setting	
Plain Paper	
Coated	This is set when printing coated paper such as pamphlet.
PrePrinted	A selection is made when printing is made additionally on the paper that has been already printed.
Fine	This is set when printing fine paper such as memo paper.
Book/News	This is set when printing paper such as a book or newspaper.
Embossed	This is set when printing embossed paper such as tickets.
Blank Insert	This is set when printing blank paper such as cover sheet.

## Advanced

Opens the [KONICA MINOLTA1200/1051PS(P) Advanced Options] window.  
For more information, refer to "Advanced Options windows" on Page 9-23.

## 9.13 Advanced Options windows

Performs advanced settings of the printer.



### Detail

*The method to open the Printing Preference window depends on OS. Refer to "About Properties window" on Page 9-1 about how to open the Printing Preference window.*

### Paper/Output - Paper Size

You can select a paper size from the list shown by clicking [▼].

#### Document size that can be selected

11 x 17W

12 x 18

12 x 18W

16K

5 1/2 x 8 1/2W

8 1/2 x 11 Tab

8 1/2 x 11W

8 1/2 x 13

8 1/4 x 13

8 1/8 x 13 1/4

8K

8 x 13

9 x 11

Document size that can be selected
A3
A3 W
A4
A4 Tab
A4 W
A5
A5 W
B4
B4 (ISO)
B4 W
B4 W (ISO)
B5
B5 (ISO)
B5 W
B5 W (ISO)
Japanese Postcard
Legal
Letter
PostScript Custom Page Size
SRA3
SRA4
Statement
Tabloid

**Note**

*The paper with “W” at the end of the document size represents “Wide paper”.*

*The selection of “8K” and/or “16K” is available. However, they cannot be used.*

**Graphic - Print Quality**

Select [1200dpi] or [600dpi] from the list.

**Graphic - Scaling**

Prints by specifying the enlargement or reduction ratio in the range from 1% to 1000%.

**Graphic - True Type Font**

Selects to substitute with printer fonts for the True Type Font or to download as Soft font.

**Document Options - Advanced Printing Features**

Refer to the Adobe PS User's Guide.

**Document Options - Pages per Sheet Layout**

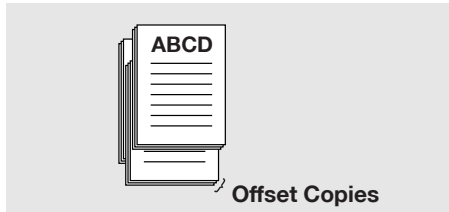
The page layout is specified for each sheet.

**Document Options - PostScript Options**

Refer to the Adobe PS User's Guide.

**Document Options - Printer Features****Offset**

Selects to shift the exit position of each set of print out back and forth when printing multi set of copies.

**Print Position Settings**

Selects the print position. [Left] print using the left of the paper. [Center] print using the center of the paper. [Right] print using the right of the paper.

**Paper Weight**

Sets various weights of paper as the output paper as shown below.

No Setting	40-49g/m <sup>2</sup>	50-61g/m <sup>2</sup>	62-71g/m <sup>2</sup>	72-91g/m <sup>2</sup>
92-130g/m <sup>2</sup>	131-161g/m <sup>2</sup>	162-216g/m <sup>2</sup>	217-244g/m <sup>2</sup>	245-300g/m <sup>2</sup>

301-350g/m <sup>2</sup>	
-------------------------	--

[245-300g/m<sup>2</sup>] or [301-350g/m<sup>2</sup>] cannot be set in the following cases:

- When [Paper Source Unit] is not available in the [Device Setting] tab.

### Paper Color

Selects the colors of the output paper as shown below:

- No Setting
- White
- Clear
- Yellow
- Pink
- Blue
- Green

### Pre-Punched

Selects whether the paper as the output paper is pre-punched or not.

### Output Tray

Selects the output tray.

The [Output Tray] cannot be set in the following cases:

- Available option which is not selected in the [Device Settings] tab.
- When [Staple] is available, any item other than [Default] and [Main Tray] can not be set.

### Output Order

Selects the output order.

[Face Down] outputs paper with the printed side facing down.

[Face Up] outputs paper with the printed side facing up.

### Image Order

Selects the printing order of documents.

[1 to N] outputs the first page.

[N to 1] outputs the last page.

### Pile Permission

When another printed document remains in Stacker, gives the permission to stack the output.

Setting the Pile Permission to OFF allows no pile on the stacker.

When a job the pile of which is not permitted is on the stacker, no pile is made even if a pile permission is granted.

### Binding Position

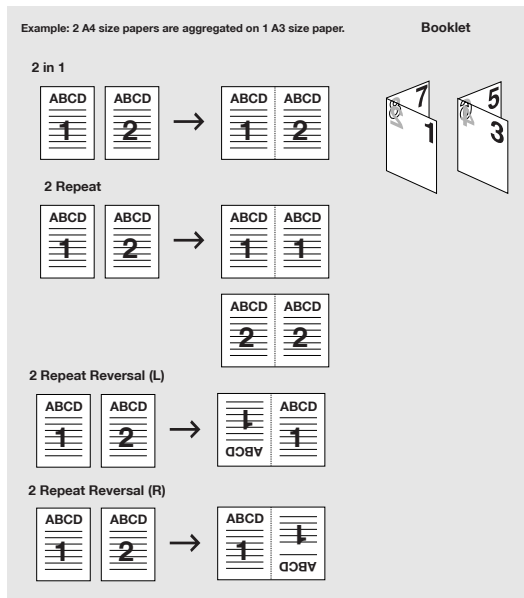
Sets the binding position for the document to be printed. The position selected here will be the position of stapling, punching and base position of the image shift.

### Print Type

Prints documents on both front and back sides.

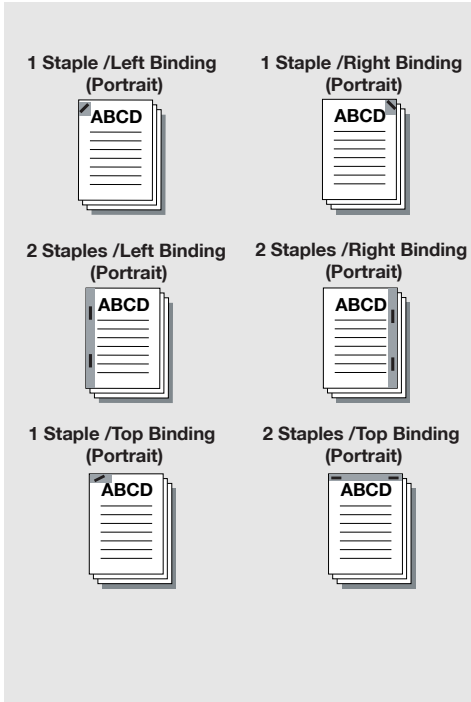
### Imposition

Prints a document of 2 pages onto a single paper twice as big as a paper selected in the output paper.



## Staple

Staples output paper. The number of staplings and their positions can be set. The selectable position will be changed according with the [Binding Position] setting.



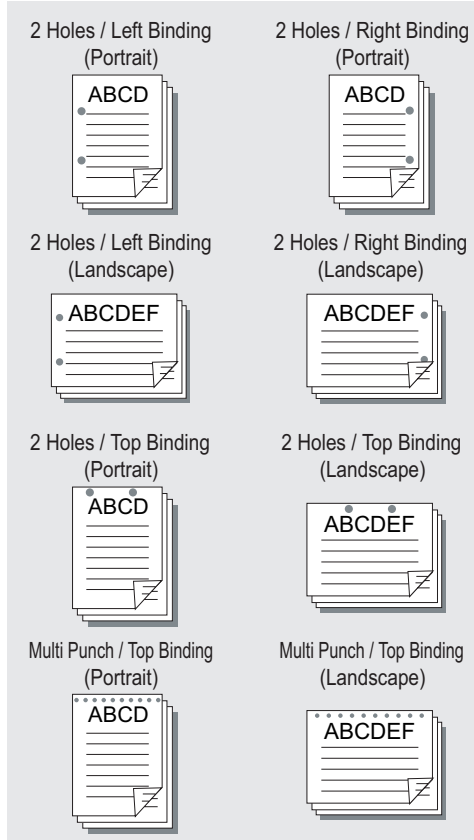
The [Staple] cannot be set in the following cases:

- When the [Stapler] is not available in the [Device Settings] tab - [Installable Options]
- When the [Default] or [Main Tray] is not selected in the [Output Tray].
- When any item other than [Z-fold] is selected in the [Fold].

## Punch

The output paper can be set to be punched with 2 holes, 3 holes, 4 holes or Multi Punch.

The position will be changed according with the [Binding Position] setting.



The [Punch] cannot be set in the following cases:
















- When the [Multi Folder] is not available in the [Device Settings] tab - [Installable Options]
- When the other than [Z-fold] is selected in the [Fold].

The [Multi Punch] cannot be set in the following cases:

- When [Multi Hole Punch Unit] is not available in [Device Settings] tab.

## Fold

Various ways of the folding can be setup.

	Z-fold
	Center Staple and Fold
	Center Staple and Fold, Trim
	Half Fold In
	Half Fold Out
	Letter Fold In
	Letter Fold Out
	Zigzag Fold In
	Zigzag Fold Out
	Double Parallel Fold In
	Double Parallel Fold Out
	Gate Fold In
	Gate Fold Out
	Multi-Letter Fold In
	Multi-Letter Fold Out
	Multi-Half Fold

The [Fold] cannot be set in the following cases:

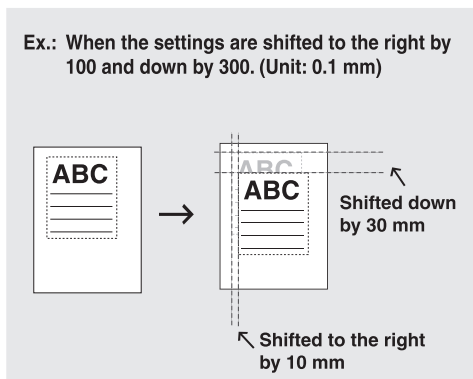
- When any item other than [Off] is selected for the [Staple], [Punch], only [Z-fold] can be selected.
- When any item other than [Off] is selected for the [Front Cover], [Back Cover], [PI Front Cover] and [PI Back Cover].

The setting of [Fold] is available when the following unit is installed.

	Multi Folder	Saddle-Stitcher
Z-Fold	<input type="radio"/>	
Half Fold (In/Out)	<input type="radio"/>	
Letter Fold (In/Out)	<input type="radio"/>	
Zigzag Fold (In/Out)	<input type="radio"/>	
Double Parallel Fold (In/Out)	<input type="radio"/>	
Gate Fold (In/Out)	<input type="radio"/>	
Multi-Letter Fold (In/Out)		<input type="radio"/>
Multi-Half Fold		<input type="radio"/>

### Image Shift

Adjusts the details of the printing position to the output paper.

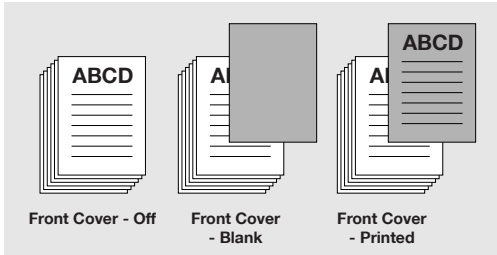


## Front Cover

Sets a front cover type.

When the [Blank] is selected, a blank sheet is inserted before the 1st page.

When the [Print] is selected, the 1st page of the document is printed with the specified sheet as the front cover.



The [Front Cover] cannot be set in the following cases:

- When any item other than [Off] or [Z-Fold] is selected for the [Fold].

## Front Cover Tray

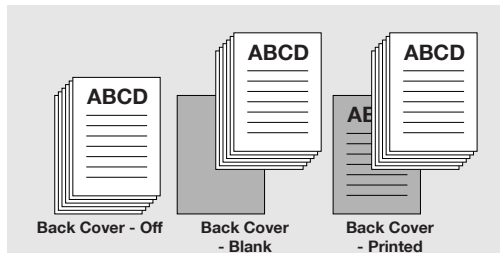
Specifies the paper tray for the front cover.

## Back Cover

Sets a back cover type.

When the [Blank] is selected, a blank sheet is inserted after the last page.

When the [Print] is selected, the last page of the document is printed with the specified sheet as the back cover.



The [Back Cover Page] cannot be set in the following cases:

- When any item other than [Off] or [Z-Fold] is selected for the [Fold].

**Back Cover Tray**

Specifies the paper tray for the back cover.

**PI Front Cover**

Sets a front cover for which the paper is from the PI Tray 1, PI Tray 2 or PI-PFU Tray 1 - 3.

The [PI Front Cover] cannot be set in the following cases:

- When the [Multi Folder] or [Large PI] is not selected in the [Device Settings] tab - [Installable Options]
- When any item other than [Off] is selected for the [Fold].

**PI Back Cover**

Sets a back cover for which the paper is from the PI Tray 1, PI Tray 2 or PI-PFU Tray 1 - 3.

The [PI Back Cover] cannot be set in the following cases:

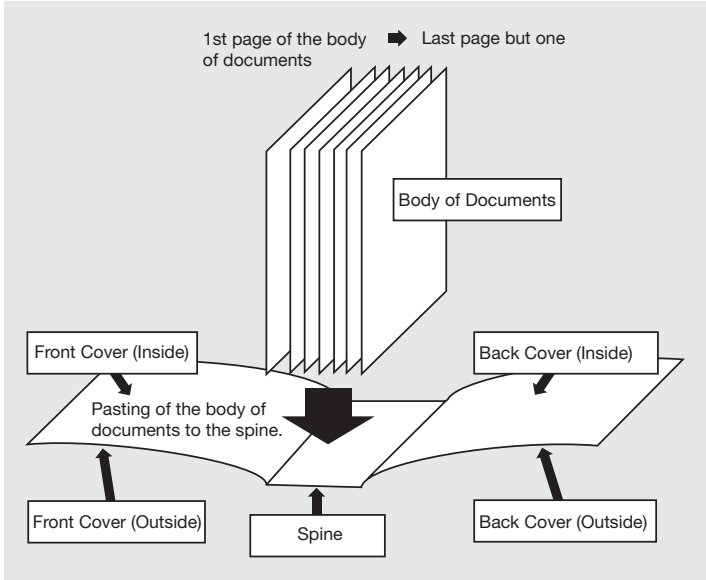
- When the [Multi Folder] or [Large PI] is not selected in the [Device Settings] tab - [Installable Options]
- When any item other than [Off] is selected for the [Fold].

## Perfect Binding Settings

The perfect binding function is a function with which the originals (the body of documents) the spine of which is pasted by the Perfect Binder (PB-502/503) is rolled-up in the cover sheet for binding.

Perfect Binding cannot be set in the following cases:

- When [PB-502/503] is not selected in [Device Settings] tab.



- The body of documents are not to be folded and cut out.
- The illustration above shows the example of [Left Bind]. For [Right Bind], see p. 9-27.
- [Left Bind] is specified as a default.

The Paper Size, the Paper Type and the Paper Weight that can be used for [Perfect Binding] are as shown in the table below.

	Size that can be used.	Basic weight that can be used.	Paper type that can be used.
Body of documents	<p>Regular size paper A4, B5, A5, 8.5 x 11, 5.5 x 8.5, 16K</p> <p>Available only while in the Z-folding. A3, B4, A4R, 11 x 17, 8.5 x 11R, 8K</p> <p>Wide paper corresponding to the sizes above can also be used.</p> <p>Custom Size Width: 150 - 307 mm Length: 140 - 221 mm</p>	62-91 g/m <sup>2</sup>	<p>Plain Paper</p> <p>Coated</p> <p>Fine</p> <p>Book/News</p> <p>Embossed</p> <p>Blank Insert</p>
Cover	<p>Custom Size Width: (min.) 150 - 307 mm Length: 281 - (max.) 483 mm</p> <p>However, it is necessary that the width of the cover sheet and that of the body of documents are of the same length.</p>	72-161 g/m <sup>2</sup>	



### Note

*The selection of "8K" and/or "16K" is available. However, they cannot be used.*

The width, the length and the weight of the cover sheet vary depending on the tray used. For details, see "User's Guide (Copier or Main Body)".

- ✓ The number of sheets in the body of documents that is bound is 10 to 300.
- 1 Open the document you want to print, and then select [Print] from [File] menu in an application.  
The [Print] dialog appears.
  - 2 Click [Preferences] to open the print setting screen and then click [Advanced].
  - 3 A setting is made through [Printer Features]-[Perfect Binding Settings].

[Perfect Binding Settings] can be set to the following modes.

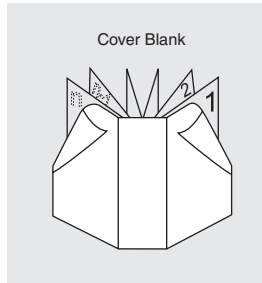
Turn on the [Perfect Binding Cover Duplex] check box when printing the cover on both sides and the [Trim] check box when conducting the cover cutting operation.

### Cover Blank

This is used when the perfect binding is employed with no printing made on the cover sheet.

The original set in the [Cover Tray] is handled as a cover sheet.

Ex.: When using [Cover Blank] for the perfect binding.



### Cover Print 1 in 1

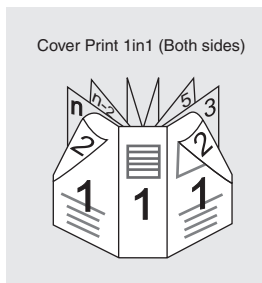
This is used when arrangements are made in advance for the originals the front cover, the back cover and the spine of which have been cut and pasted to the same size as the paper used as the front cover.

When printing the both sides of the front cover, it is necessary to make arrangements for the reverse side of the front cover in advance.

NOTE:

The use of [PI Tray], [PI-PFU Tray] and [PB Cover Tray] is not available for [Cover Print 1in1].

Ex.: When using [Cover Print 1in1] for the perfect binding.



### Cover Print 2 in 1

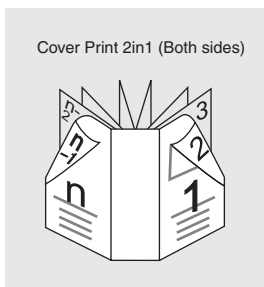
For the front cover, the first page and the last page (n page) of the originals are made as 2in1, and the second page up to the last page but one (n - 1 page) are printed as the body of documents with no printing made on the spine for perfect binding.

And in addition, the width of the spine is reflected on the width set for the copier.

**NOTE:**

The use of [PI Tray], [PI-PFU Tray] and [PB Cover Tray] is not available for [Cover Print 2in1].

Ex.: When using [Cover Print 2in1] for the perfect binding.



### Cover Print 3 in 1

After cutting and pasting automatically the first page of the original on the front cover, the last page but one ( $n - 1$  page) on the back cover, and the last page ( $n$  page) on 3in1 as the spine, the front cover is printed.

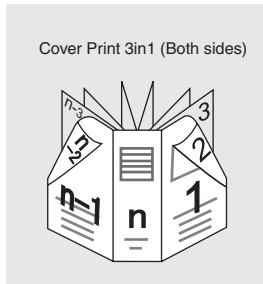
And the second page up to the last page but two ( $n - 2$  page) are printed as the body of documents.

And in addition, the width of the spine is reflected on the width set for the copier.

#### NOTE:

The use of [PI Tray], [PI-PFU Tray] and [PB Cover Tray] is not available for [Cover Print 3in1].

Ex.: When using [Cover Print 3in1] for the perfect binding.



### Perfect Binding Cover Tray

Select the tray for Perfect Binding Cover.

### Perfect Binding Cover Duplex

Turn it [ON] when you want to make the cover of Perfect Binding double-sided.

### Perfect Binding Cover Trimming

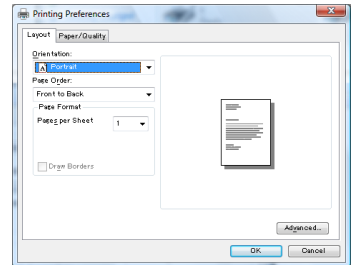
Turn it [ON] when you cut out the cover of Perfect Binding.

## Wait Mode - Wait Mode/Proof and Print/Proof and Print (1st sheet)

Outputs the test print and checks the current setting from the control panel of copier. Use this when printing a large volume document, such as multiple sets of pages.

1 Open the file to be printed and select [File] - [Print] of application.

2 Click [Preferences] to open the [Printing Preferences] window and then click [Advanced].



3 Click [▼] besides the [Wait Mode] to display the list. Then select [Wait Mode], [Proof and Print] or [Proof and Print (1st sheet)] and click [OK] to close the [Advanced Options] window.

- Select [Wait Mode] to wait before printing the document to check the current setting from the control panel of copier.
- Select [Proof and Print] to print the one copy as a test to check the output and the current setting from the control panel of copier.
- Select [Proof and Print (1st sheet)] if you want to print only the first page for checking the current setting.

4 Click [OK] to close the [Printing Preferences].

5 Click [Print] to perform printing from the application.

- When the [Wait Mode] is selected, it stops without being printed.
- When the [Proof and Print] is selected, only one set is printed and it stops.
- Select [Proof and Print (1st sheet)] if you want to print only the first page for checking the current setting.

The copier is stopped temporarily and the Mode Check screen is displayed.

## 6 Confirm the current settings.

- If you do not change any setting, proceed to the step 9.
- Click [Suspended] to move the JOB to [Suspend] in the JOB list.
- When [Proof and Print] is selected, only one set is printed and it stops.
- If [Proof and Print (1st sheet)] is clicked, only the first page is printed and the copier is stopped temporarily.



## 7 If necessary, select the item and change settings.

## 8 Press the [OK].

The Mode Check screen will be restored.

## 9 Press [START] to resume the rest of the print job.

## Wait Mode - Hold Print

You can save a JOB in the copier temporarily and print it from the control panel as required. Use this function when you want to print more than one document in batch.

- 1 Open the file to be printed and select [File] - [Print] of application.
- 2 Click [Preferences] to open the [Printing Preferences] window and then click [Advanced].
- 3 Select [Wait Mode] - [Hold Print].
- 4 Click [OK] to close the [Printing Preferences] window.
- 5 Click [Print] to perform printing from the application.  
The JOB is transmitted to the copier as the suspended JOB.

- 6 Select [JOB LIST] tab on the control panel of the copier.

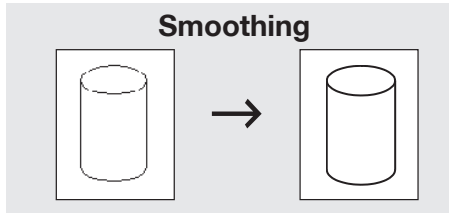
- 7 Select a JOB you want to print from the [Suspend] list and click [Release].
  - The JOB is released from being suspended and moved to the [Active] list.
  - Click [Ticket Edit] to change the JOB settings.
  - Click [All Release] to move all of the suspended JOB to the [Active] list.



- 8 Select [MACHINE] tab and press [START].  
The print job is printed.

## Smoothing

Prints the curved section of characters and images smoothly, when this printing system is used.



- [Type1] is suitable for printing the diagonal lines of normal characters and graphics.
- [Type2] is suitable for printing the curved sections of normal characters.
- [Type3] is suitable for printing the curved sections of ornamental writings and fine characters.
- No [Smoothing] function is available when [Print Quality] is set to [1200 dpi].

## Fine Line Precision

A setting is made when you want to make characters fine so that they become easy to read.

A selection is made from among Level 1 and 4 for [Fine Line Precision]. The larger the level number, the more fine the characters printed.

## Object

If [Fine Line Precision] is set, either [Text] or [All-image] must be selected as the precision target.

## Date/Time

Specify the pages to print the date and time.

All pages:            Date/Time is printed in all the pages.

1st Page Only:      Date/Time is printed in the 1st page only.

## Copy Protect

When you want to make a printing with the copy protect set to prevent an unauthorized copying, make a selection of [On] and then set [Preset Stamp] and [Back Pattern].

**Preset Stamp**

Select a faint character to prevent an unauthorized copying.

**Back Pattern**

Make a selection of the background pattern to prevent an unauthorized copying.

**Print Density**

Selects the printing density.

Item	Print density
Normal	100%
Dark	110%
Light1	90%
Light2	80%
Light3	70%
Light4	60%
Light5	50%
Toner Save	80%
Draft Print	60%

**Note**

*A rule of thumb is used for the value of print density.*

## 10 PostScript PPD Printer Driver setting (Mac OS X)

This chapter describes the settings of the PostScript PPD printer driver using Mac OS X.

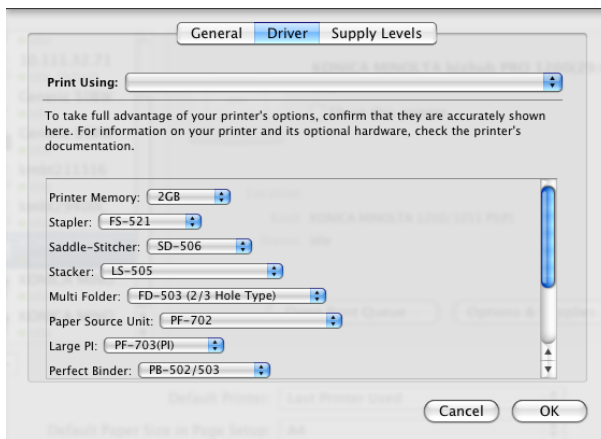
### 10.1 About Mac OS X window

In Mac OS X, printer driver is set up using the [Printer Info] window, the [Page Setup] window and the [Print] window.

Here, how to open the window of Mac OS X is explained.

#### The method to open the [Printer Info] window (v10.4/v10.5)

- 1 On the “Apple” menu, select “System Preferences”.
- 2 Select [Print & Fax].
- 3 Select the printer and click [Options & Supplies]([Printer Setup]).
- 4 Select [Driver] (Installable Option).
  - [Printer Info] window appears.



**The method to open the [Printer Info] window (v10.3)**

- 1** Double-click [Applications] - [Utilities] - [Printer Setup Utility] in a hard disk with system.  
The [Printer List] window appears.
- 2** Select the printer and then select [Show Info] from Printers menu.
  - [Printer Info] window appears.

**Printer Memory**

A memory is specified that is used by the image controller. The selection of "1GB " is available. However, it cannot be used.

**Stapler**

Selects an installed Stapler.

**Saddle-Stitcher**

Selects an installed Saddle Stitcher.

**Stacker**

Selects an installed Stacker.

**Multi Folder**

Selects an installed Multi Folder.

**Paper Source Unit**

Selects an installed paper source.

**Large PI**

Selects an installed Cover Sheet Feeder.

**Perfect Binder**

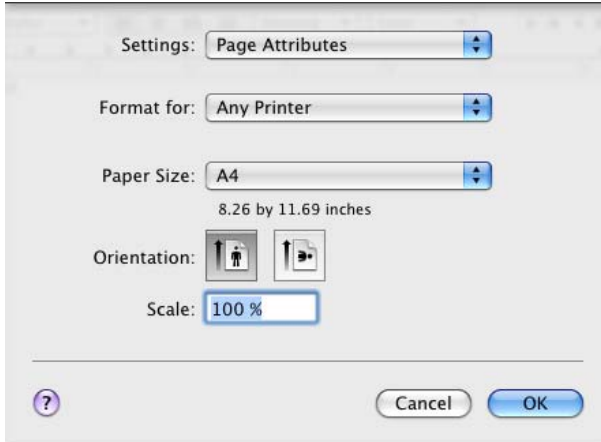
Selects an installed Perfect Binder.

**Multi Hole Punch Unit**

Selects an installed Multi Hole Punch Unit.

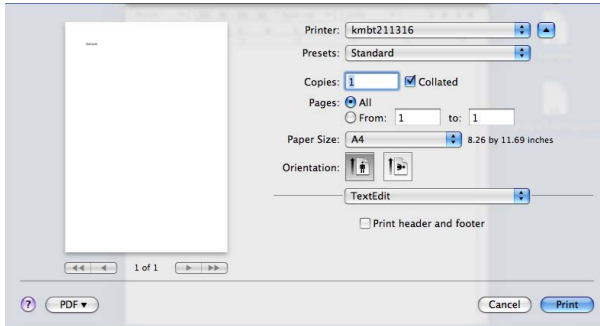
**The method to open the [Page Setup] window**

- 1 Open the file to print.
- 2 Select [Page Setup] from File menu.
  - The [Page Setup] window appears.



## The method to open the [Print] window

- 1 Open the file to print
- 2 Select [Print] from File menu.
  - The [Print] window appears.



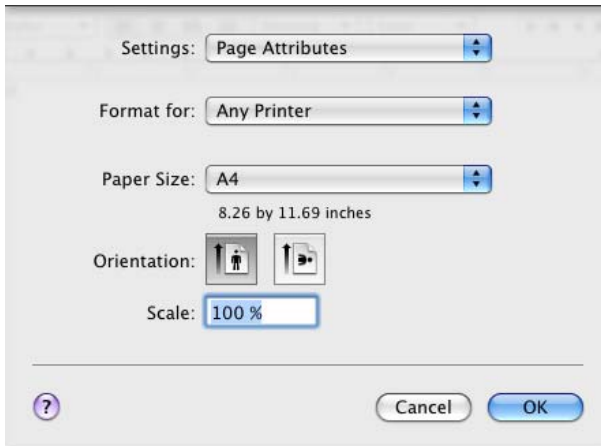
### Detail

*To perform printing, click [Print].*

*Selecting [Save As] on the [Presets] pop-up menu enables you to save the settings you configured in the [Print] window.*

## 10.2 Page Attributes (Page Setup window)

Selects [Page Attributes] on the [Settings] pop-up menu in the [Page Setup] window.



### Detail

Refer to the "The method to open the [Page Setup] window" on Page 10-3.

### Format for

Selects the printer you want to use.

### Paper Size

You can select a paper size from the list shown.

#### Document size that can be selected

A3

A4

A5

B4

B5

B4 (ISO)

B5 (ISO)

SRA3

Document size that can be selected
SRA4
12 x 18
11 x 17
9 x 11
8 1/2 x 14
8 1/2 x 11
5 1/2 x 8 1/2
8 x 13
8 1/2 x 13
8 1/4 x 13
8 1/8 x 13 1/4
8K
16K
Postcard
A3W
A4W
A5W
B4W
B4W (ISO)
B5W
B5W (ISO)
12 x 18W
11 x 17W
8 1/2 x 11W
5 1/2 x 8 1/2W
8 1/2 x 11 Tab
A4 Tab
Add Custom Sizes

**Note**

*When selecting [Custom], you can set and register a paper size.*

*A specific paper size cannot be selected due to other functions set. For details, refer to the explanation of each of the functions.*

*The selection of "8K" and/or "16K" is available. However, they cannot be used.*

**Orientation**

Sets the orientation to output paper.

**Scale**

Prints by specifying the enlargement or reduction ratio in the range from 25% to 400%.

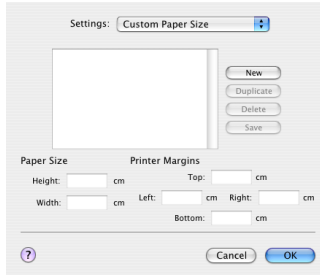
The [Scale] cannot be set in the following cases:

- When the [Pages per Sheet] is set to any item other than [1].

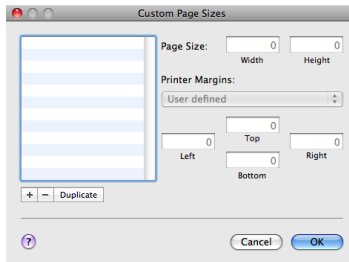
## 10.3 Custom Paper Size (Page Setup window)

Selects [Custom Paper Size] on the [Settings] pop-up menu (OS 10.3) or select [Custom Size] on the [Paper Size] pop-up menu in the [Page Setup] window(OS 10.4/10.5).

In case of OS v10.3



In case of OS v10.4/v10.5



### Detail

Refer to the "The method to open the [Page Setup] window" on Page 10-3.

### New

You can register a new Custom Paper Size.

In case of OS v10.4/v10.5, click [+] to create the custom page size.

### Paper Size

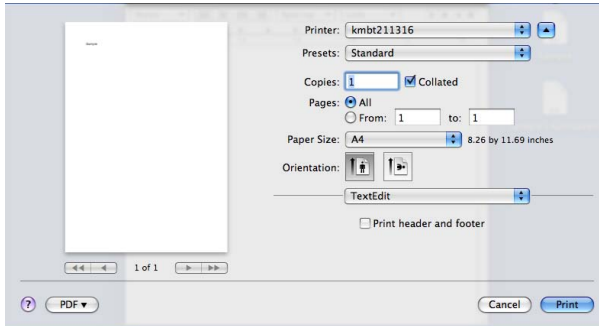
Sets the height and width of the output paper.

### Printer Margins

Sets the margins of the output paper.

## 10.4 Copies & Pages (Print window)

Selects [Copies & Pages] on the pop-up menu in the [Print] window.



### Detail

*Refer to the "The method to open the [Print] window" on Page 10-4.*

### Copies

Sets the number of copies to be printed.

### Collated

It is possible to print the required number of the first page, and then the required number of the second pages, the third page, .... when printing multiple sets of pages.

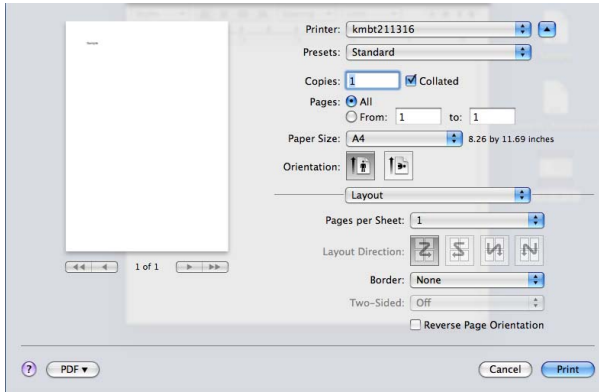
### Pages

Selects the page to be printed.

- All: Prints all pages of the document.
- From [ ] To [ ]: Enters the initial page number and the ending page number. If you want to print one page, enter the page number to the both boxes.

## 10.5 Layout (Print window)

Selects [Layout] on the pop-up menu in the [Print] window.

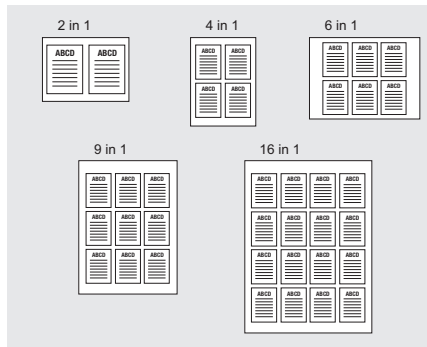


### Detail

Refer to the "The method to open the [Print] window" on Page 10-4.

### Pages per Sheet

Allocates a document of 2 pages, 4 pages, 6 pages, 9 pages or 16 pages onto a single page for printing. The allocated pages are automatically reduced for printing based on the printable region of the output paper.



### Layout Direction

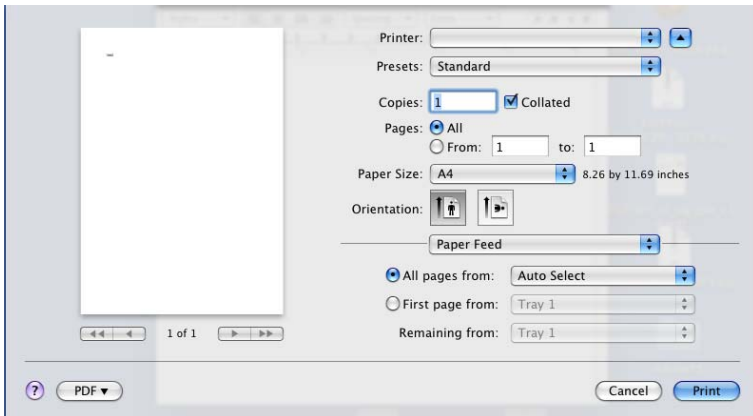
Selects the layout direction the pages allocated onto a single paper.

**Border**

Selects whether draw a frame or line as the border between pages.

## 10.6 Paper Feed (Print window)

Selects [Duplex] on the pop-up menu in the [Print] window.



### Detail

Refer to the "The method to open the [Print] window" on Page 10-4.

### Paper Feed

Selects the paper source.

- All pages from: Prints all pages from the same tray. Select the tray in the right box.
- First page from: Prints the first page from the specified tray in upper box and remaining pages from the specified tray in lower box.

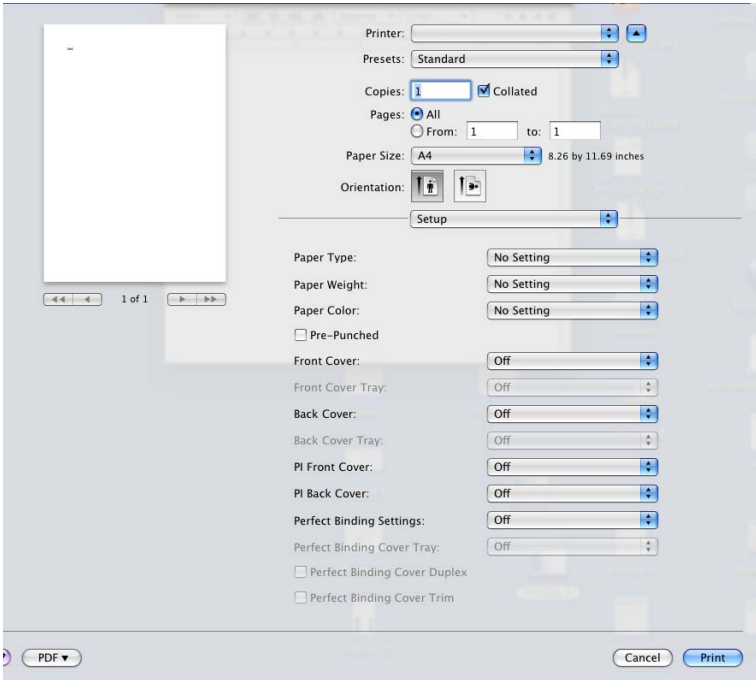


### Detail

If you use [Auto Select], a paper feed tray is automatically selected. The paper specified in [Page Attributes] of this printing system is set on the tray.

## 10.7 Setup (Print window)

Selects [Setup] on the pop-up menu in the [Print] window.



### Detail

Refer to the "The method to open the [Print] window" on Page 10-4.

### Paper Type

Sets various types of paper sizes as the output paper as shown below.

Types of paper that can be selected.	
No Setting	
Plain Paper	
Coated	This is set when printing coated paper such as pamphlet.
PrePrinted	A selection is made when printing is made additionally on the paper that has been already printed.

Types of paper that can be selected.	
Fine	This is set when printing fine paper such as memo paper.
Book/News	This is set when printing paper such as a book or newspaper.
Embossed	This is set when printing embossed paper such as tickets.
Blank Insert	This is set when printing blank paper such as cover sheet.

### Paper Weight

Sets various weights of paper as the output paper as shown below.

No Setting	40-49g/m <sup>2</sup>	50-61g/m <sup>2</sup>	62-71g/m <sup>2</sup>	72-91g/m <sup>2</sup>
92-130g/m <sup>2</sup>	131-161g/m <sup>2</sup>	162-216g/m <sup>2</sup>	217-244g/m <sup>2</sup>	245-300g/m <sup>2</sup>
301-350g/m <sup>2</sup>				

[245-300g/m<sup>2</sup>] or [301-350g/m<sup>2</sup>] cannot be set in the following cases:

- When [Paper Source Unit] is not available in the [Printer Info] dialog box.

### Paper Color

Selects the colors of paper as the output paper as shown below.

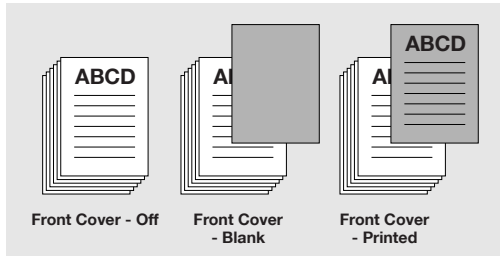
- No Setting
- White
- Clear
- Yellow
- Pink
- Blue
- Green

### Pre-Punched

Selects whether the paper as the output paper is pre-punched or not.

## Front Cover

Sets a front cover for which paper is different than the text paper.



The [Front Cover] cannot be set in the following cases:

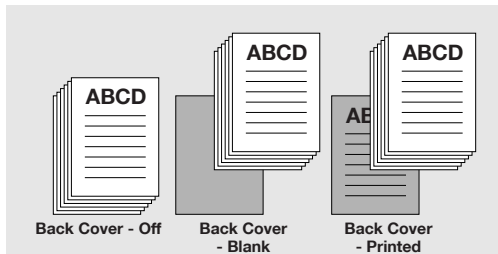
- When the [Collated] is not available in the [Print] - [Finishing]
- When the [Pages per Sheets] is selected in the [Print] - [Layout]

## Front Cover Tray

Specifies the paper tray for the front cover.

## Back Cover

Sets a back cover for which paper is different than the text paper.



The [Back Cover] cannot be set in the following cases:

- When the [Collated] is not available in the [Print] - [Copies & Pages]
- When the [Pages per Sheets] is selected in the [Print] - [Layout]

## Back Cover Tray

Specifies the paper tray for the back cover.

## PI Front Cover

Sets a front cover for which paper is from the PI Tray 1, PI Tray 2 or PI-PFU Tray 1 - 3.

## PI Back Cover

Sets a back cover for which paper is from the PI Tray 1, PI Tray 2 or PI-PFU Tray 1 - 3.

The [PI Front Cover] or [PI Back Cover] cannot be set in the following cases:

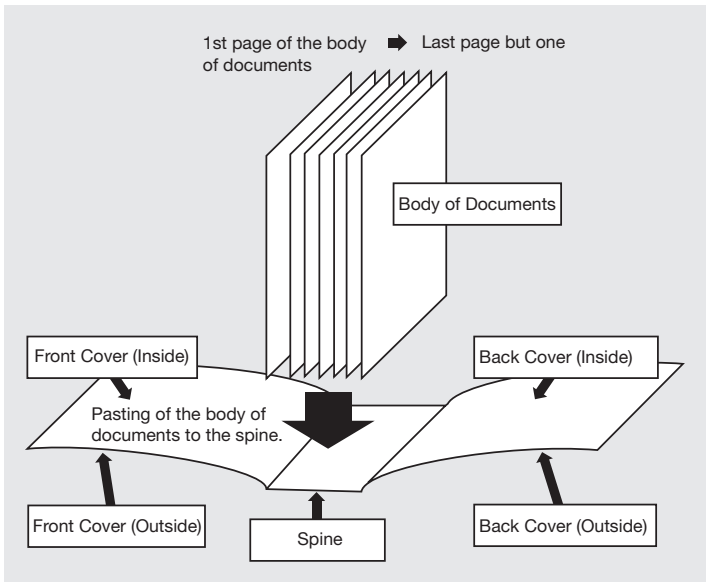
- When the [None] is selected for [Large PI] in the [Printer Info] window.

## Perfect Binding Settings

The perfect binding function is a function with which the originals (the body of documents) the spine of which is pasted by the Perfect Binder (PB-502/503) is rolled-up in the cover sheet for binding.

Perfect Binding cannot be set in the following cases:

- When [PB-502/503] is not selected in [Device Settings] tab.



- The body of documents are not to be folded and cut out.
- The illustration above shows the example of [Left Bind]. For [Right Bind], see p. 10-26.
- [Left Bind] is specified as a default.

The Paper Size, the Paper Type and the Paper Weight that can be used for [Perfect Binding] are as shown in the table below.

	Size that can be used.	Basic weight that can be used.	Paper type that can be used.
Body of documents	<p>Regular size paper A4, B5, A5, 8.5 x 11, 5.5 x 8.5, 16K</p> <p>Available only while in the Z-folding. A3, B4, A4R, 11 x 17, 8.5 x 11R, 8K</p> <p>Wide paper corresponding to the sizes above can also be used.</p> <p>Custom Size Width: 150 - 307 mm Length: 140 - 221 mm</p>	62-91 g/m <sup>2</sup>	<p>Plain Paper</p> <p>Coated</p> <p>Fine</p> <p>Book/News</p> <p>Embossed</p> <p>Blank Insert</p>
Cover	<p>Custom Size Width: (min.) 150 - 307 mm Length: 281 - (max.) 483 mm</p> <p>However, it is necessary that the width of the cover sheet and that of the body of documents are of the same length.</p>	72-161 g/m <sup>2</sup>	



### Note

*The selection of "8K" and/or "16K" is available. However, they cannot be used.*

The width, the length and the weight of the cover sheet vary depending on the tray used. For details, see "User's Guide (Copier or Main Body)".

- ✓ The number of sheets in the body of documents that is bound is 10 to 300.
- 1 Open the document you want to print, and then select [Print] from [File] menu in an application.  
The [Print] dialog appears.
  - 2 Select [Setup].
  - 3 A setting is made through [Perfect Binding Settings].

[Perfect Binding Settings] can be set to the following modes.

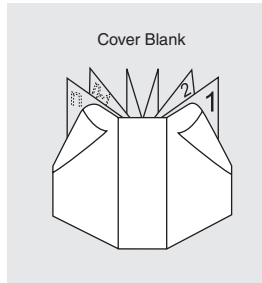
Turn on the [Perfect Binding Cover Duplex] check box when printing the cover on both sides and the [Trim] check box when conducting the cover cutting operation.

### **Cover Blank**

This is used when the perfect binding is employed with no printing made on the cover sheet.

The original set in the [Cover Tray] is handled as a cover sheet.

Ex.: When using [Cover Blank] for the perfect binding.



### Cover Print 2 in 1

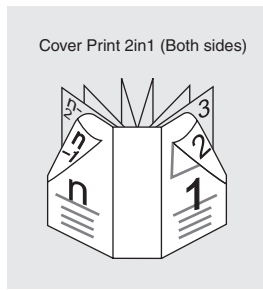
For the front cover, the first page and the last page (n page) of the originals are made as 2in1, and the second page up to the last page but one (n - 1 page) are printed as the body of documents with no printing made on the spine for perfect binding.

And in addition, the width of the spine is reflected on the width set for the copier.

**NOTE:**

The use of [PI Tray], [PI-PFU Tray] and [PB Cover Tray] is not available for [Cover Print 2in1].

Ex.: When using [Cover Print 2in1] for the perfect binding.



**Cover Print 3 in 1**

After cutting and pasting automatically the first page of the original on the front cover, the last page but one ( $n - 1$  page) on the back cover, and the last page ( $n$  page) on 3in1 as the spine, the front cover is printed.

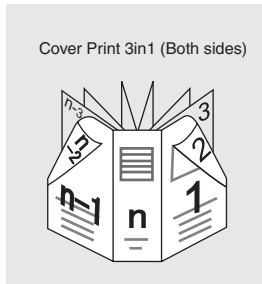
And the second page up to the last page but two ( $n - 2$  page) are printed as the body of documents.

And in addition, the width of the spine is reflected on the width set for the copier.

**NOTE:**

The use of [PI Tray], [PI-PFU Tray] and [PB Cover Tray] is not available for [Cover Print 3in1].

Ex.: When using [Cover Print 3in1] for the perfect binding.

**Perfect Binding Cover Tray**

Select the tray for Perfect Binding Cover.

**Perfect Binding Cover Duplex**

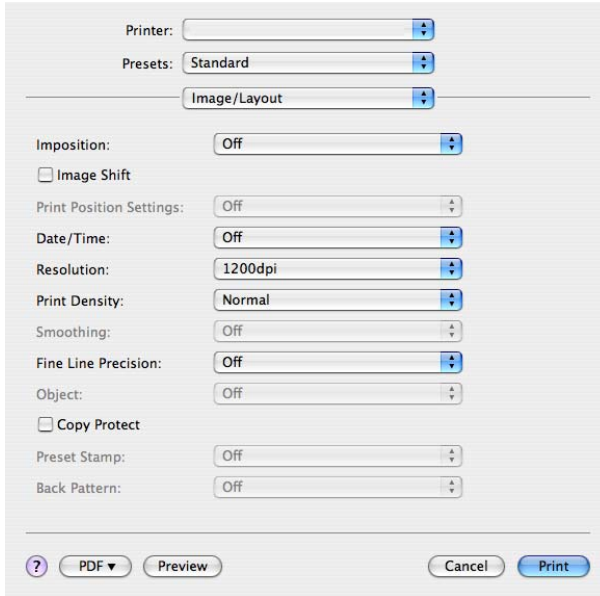
Turn it [ON] when you want to make the cover of Perfect Binding double-sided.

**Perfect Binding Cover Trim**

Turn it [ON] when you cut out the cover of Perfect Binding.

## 10.8 Image/Layout (Print window)

Selects [Image/Layout] on the pop-up menu in the [Print] window.

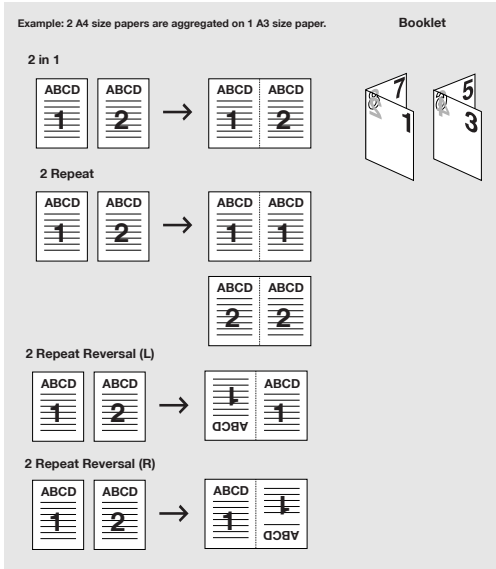


### Detail

Refer to the "The method to open the [Print] window" on Page 10-4.

### Imposition

Prints a document of 2 pages onto a single paper twice as big as the original documents.

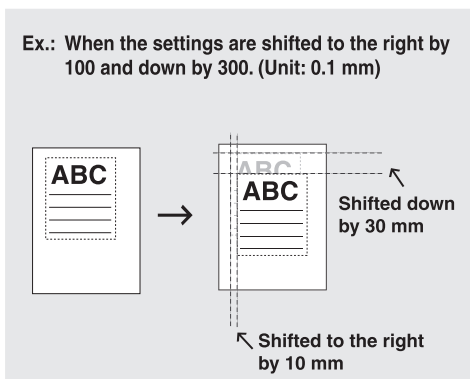


The [2in1] and [2 repeat] cannot be set in the following cases:

- When any item other than [Off] is selected for [Front Cover] or [Back Cover] in the [Print] - [Setup].

### Image Shift

Adjusts the details of the printing position to the output paper.



### Print Position Settings

Selects the print position. [Left] print using the left of the paper. [Center] print using the center of the paper. [Right] print using the right of the paper.

**Date/Time**

Specifies the pages to print the date and time.

All pages: Date/Time is printed in all the pages.

1st Page Only: Date/Time is printed in the 1st page only.

**Resolution**

Specify the resolution of the printer (1200dpi / 600 dpi).

**Print Density**

Selects the printing density.

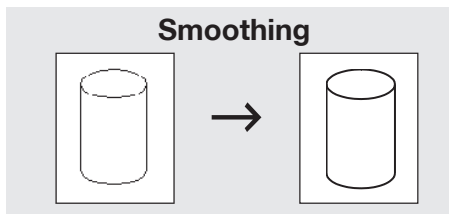
Item	Print density
Normal	100%
Dark	110%
Light1	90%
Light2	80%
Light3	70%
Light4	60%
Light5	50%
Toner Save	80%
Draft Print	60%

**Note**

*A rule of thumb is used for the value of print density.*

**Smoothing**

Print the curved section of characters and images smoothly.



- [Type 1] is suitable for printing the diagonal lines of normal characters and graphics.

- [Type 2] is suitable for printing the curved sections of normal characters.
- [Type 3] is suitable for printing the curved sections of ornamental writings and fine characters.
- No [Smoothing] function is available when [Resolution] is set to [1200 dpi].

### **Fine Line Precision**

A setting is made when you want to make characters fine so that they become easy to read.

A selection is made from among Level 1 and 4 for [Fine Line Precision]. The larger the level number, the more fine the characters printed.

### **Object**

If [Fine Line Precision] is set, either [Text] or [All-image] must be selected as the precision target.

### **Copy Protect**

When you want to make a printing with the copy protect set to prevent an unauthorized copying, make a selection of [On] and then set [Preset Stamp] and [Back Pattern].

### **Preset Stamp**

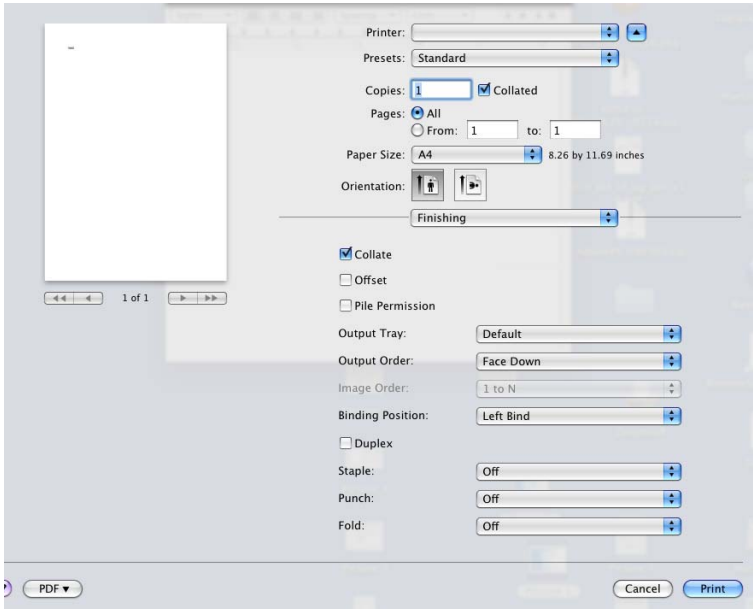
Select a faint character to prevent an unauthorized copying.

### **Back Pattern**

Make a selection of the background pattern to prevent an unauthorized copying.

## 10.9 Finishing (Print window)

Selects [Finishing] on the pop-up menu in the [Print] window.



### Detail

Refer to the "The method to open the [Print] window" on Page 10-4.

### Collate

It is possible to print the required number of the first page, and then the required number of the second pages, the third page, .... collectively when printing multiple sets of pages.

### Offset

Selects to shift the exit position of each set of print out back and forth when printing multi set of copies.

The [Offset] cannot be set in the following cases:

- When the [Japanese Post Card], or [Custom] is selected for [Page Setup] - [Paper Size].
- When the Finisher is not available.

**Pile Permission**

When another printed document remains in Stacker, gives the permission to stack the output.

Setting the Pile Permission to OFF allows no pile on the stacker.

When a job the pile of which is not permitted is on the stacker, no pile is made even if a pile permission is granted.

**Output Tray**

Selects the output tray.

Each of them can/cannot be set in the following cases:

- Each options which is not selected on the [Printer Info] window cannot be set.
- When [Staple] is available, any item other than [Default] and [Main Tray] can not be set.

**Output Order**

Selects the output order.

- [Face Down] outputs paper with the printed side facing down.
- [Face Up] outputs paper with the printed side facing up.

**Image Order**

The [1 to N] outputs paper starting with the first page.

The [N to 1] outputs paper starting with the last page.

**Binding Position**

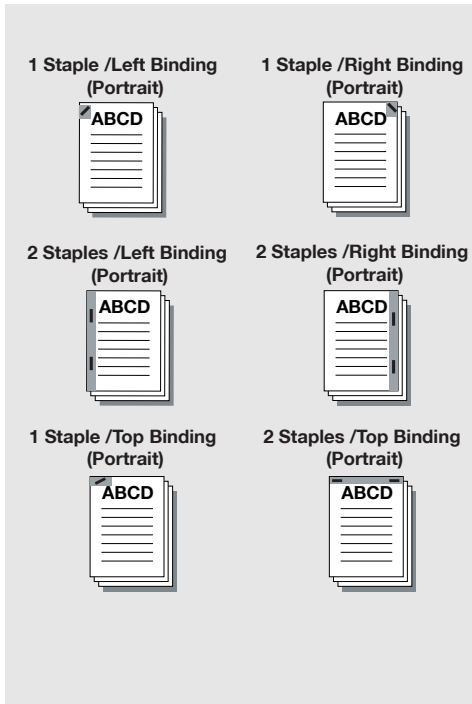
Sets the binding position for the document to be printed. The position selected here will be the position of stapling, punching and base position of the image shift.

**Duplex**

Prints continuous multiple pages on both front and back sides.

## Staple

Staples output paper. The number of staplings and their positions can be set.

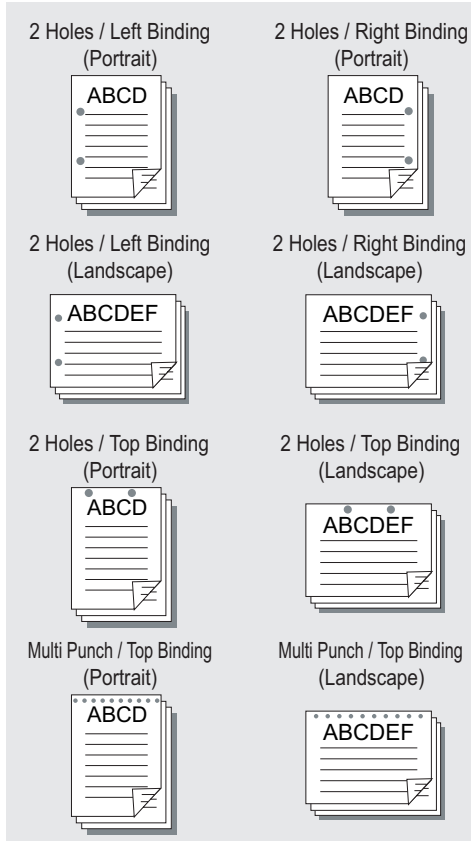


The [Staple] cannot be set in the following cases:

- When the [Stapler] is not available in the [Printer Info] - [Installable Options].
- When any item other than [Z-Fold] is selected for [Fold].

## Punch

The output paper can be set to be punched in advance.



The [Hole-Punch] cannot be set in the following cases:
















- When the [Multi Folder] is not available in the [Printer Info] - [Installable Options].
- When the [Post Card], [Wide paper (W)] or [Custom] is selected for [Page Setup] - [Paper Size].
- When any item other than [Z-Fold] is selected for [Fold].

The [Multi Punch] cannot be set in the following cases:

- When [Multi Hole Punch Unit] is not available in [Printer Info] - [Installable Options].

## Fold

Various ways of the folding can be setup.

	Z-fold
	Center Staple and Fold
	Center Staple and Fold, Trim
	Half Fold In
	Half Fold Out
	Letter Fold In
	Letter Fold Out
	Zigzag Fold In
	Zigzag Fold Out
	Double Parallel Fold In
	Double Parallel Fold Out
	Gate Fold In
	Gate Fold Out
	Multi-Letter Fold In
	Multi-Letter Fold Out
	Multi-Half Fold

The [Fold] cannot be set in the following cases:

- When any item other than [Off] is selected for the [Staple], [Punch], only [Z-Fold] can be selected.
- When any item other than [Off] is selected for the [Front Cover], [Back Cover], [PI Front Cover] and [PI Back Cover].

The setting of [Fold] is available when the following unit is installed.

	Multi Folder	Saddle-Stitcher
Z-Fold	<input type="radio"/>	
Half Fold (In/Out)	<input type="radio"/>	
Letter Fold (In/Out)	<input type="radio"/>	
Zigzag Fold (In/Out)	<input type="radio"/>	
Double Parallel Fold (In/Out)	<input type="radio"/>	
Gate Fold (In/Out)	<input type="radio"/>	
Multi-Letter Fold (In/Out)		<input type="radio"/>
Multi-Half Fold		<input type="radio"/>



**Note**

*In order to set the Folding function, you must set in advance a corresponding Output tray on the printer driver.*

*For details of the Output tray, refer to "Output Tray" on page 10-26.*

## 10.10 Security (Print window)

Selects [Security] on the pop-up menu in the [Print] window.

Printer: [ ] [v] [^]

Presets: Standard [v]

Copies: 1 [v]  Collated

Pages:  All  
 From: 1 to: 1

Paper Size: A4 [v] 8.26 by 11.69 inches

Orientation: [ ] [v]

Security [v]

Output Method: Print [v]

Secure Print Settings

Secure Print ID: [ ]

Password: [ ]

Save in User Box Settings

File Name: [ ]

User Box Number: [ ]

User Authentication

Public User  
 Recipient User

User Name: [ ]

Password: [ ]

Account Track

Department Name: [ ]

Password: [ ]

Enhanced Security

PDF [v] Cancel Print



### Detail

Refer to the "The method to open the [Print] window" on Page 10-4.

### Output Method - Off

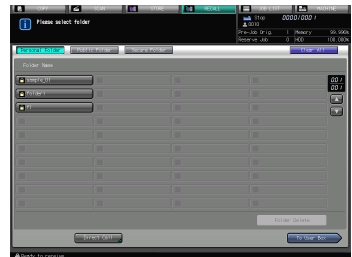
Sets the normal printing.

## Output Method - Secure Print


Used when highly confidential documents are printed.

If you print with the Secure Print feature, the printing does not start until you input the Secure Print ID and the password on the copier's control panel.

- 1 Open the file to be printed and select [File] - [Print] of application.
- 2 Select [Security] from pop-up menu.
- 3 Select [Secure Print] in the [Output Method].  
[Secure Print Settings] field becomes active.
- 4 Enter [Secure Print ID] and [Password].
  - Secure Print ID: Enter the confidential box name.
  - Password: Enter the password.
- 5 Click [Print] to perform printing from the application.
- 6 Press [RECALL] on the touch panel of copier.
- 7 Press [Secure Folder].



- 8 Select a box.  
The Password Input screen appears.
- 9 Enter [Password].
- 10 Press [OK] to close the Password Input screen.

- 11 Select the file to print and press .



- 12 Select [Auto], press [Print], and press the [OK].  
The Confidential file is printed.



**Detail**

*To confirm the settings for Output, select [Wait] or [Proof], and press [OK].*

**Output Method - Save in User Box/Save in User Box and Print**

You can store the print job as image data on the copier's internal hard disk to re-output them when necessary. To output, operate on the control panel.

- 1** Open the file to be printed and select [File] - [Print] of application.
- 2** Select [Security] from pop-up menu.
- 3** Select [Save in User Box] or [Save in User Box and Print] in the [Output Method].
  - Selecting [Save in User Box] stores the print job in the internal hard disk.
  - Selecting [Save in User Box and Print] stores the print job in the internal hard disk and prints one copy.The [Save in User Box Settings] field becomes active.
- 4** Enter [File Name] and [User Box Number] and click [Print] to perform printing from the application.

The print jobs will be saved in the built-in hard disk (HDD-A) of the copier.

**Detail**

*For details of the method for outputting the print jobs saved (Output from the HDD-A), refer to the User's Guide (Network Scanner).*



- 8 Press [START] to resume the rest of the print job.

### Output Method - Hold Print

You can save a JOB in the copier temporarily and print it from the control panel as required. Use this function when you want to print more than one document in batch.

- 1 Open the file to be printed and select [File] - [Print] of application.

- 2 Select [Security] from pop-up menu.

- 3 Select [Hold Print] in the [Output Method].

- 4 Click [Print] to close the [Security] window.

- 5 Click [Print] to perform printing from the application.

The JOB is transmitted to the copier as the suspended JOB.

- 6 Select [JOB LIST] tab on the control panel of the copier.

- 7 Select a JOB you want to print from the [Suspend] list and click [Release].

- The JOB is released from being suspended and moved to the [Active] list.
- Click [Ticket Edit] to change the JOB settings.
- Click [All Release] to move all of the suspended JOB to the [Active] list.



- 8 Select [MACHINE] tab and press [START].

The print job is printed.

## User Authentication/Account Track

Sets the User Authentication mode/Account Track mode.



### Detail

*Contact your administrator about User Authentication/Account Track.*

## User Authentication

Selects to use the User Authentication mode.

Public User	Select when you access as Public user to the image controller.
Recipient User	Select when you access as Registered user to the image controller.
User Name	Enter the Registered User Name when the [Recipient User] is selected.
Password	Enter the Registered Password when the [Recipient User] is selected.

## Account Track

Selects to use the Account Track mode.

Department Name	Enter the Department Name.
Password	Enter the password.

## Enhanced Security

By turning ON the [Enhanced Security], you can enter nothing anymore to the password input field for the following functions so that the password cannot be transmitted from the printer driver to the printing system through the network:

- Secure Print (page 10-32)
- User Authentication/Account Track (page 10-37)

To print using these functions, you should enter the password on the control panel of the copier after transmitting the print data. Refer to “User’s Guide (Security)” for more information.

# 11 Troubleshooting

This chapter describes how to troubleshoot on using the image controller.

## 11.1 Basic Troubleshooting

This section describes how to troubleshoot. If problems are not resolved by using the following procedure, contact your Konica Minolta service representative.

### **First check the following ordinary causes of abnormalities:**

- 1** Check the power of the main body printer (copier), computers and cable connections.
- 2** Check the LCD touch screen of the main body printer to find information concerning the current trouble.
- 3** Make a print of [Configuration Page Print] from [Report Type] of [Controller] in the Utility Mode of the copier, and check to see if it is set correctly.
  - Refer to “Test Page Print” on page 4-45 for more information about Test Page.
- 4** Check the current status of the image controller.
  - Check the current status shown on the LCD of the control panel.
  - Touch the [Job List] on the touch panel of the copier to check the job status.

### **When your job is being processed or waiting to be printed:**

Windows:

The current status is displayed on the dialog shown by double-clicking [Start] - [Printers and Faxes] - printing system currently used.

Macintosh:

The current status is displayed on the dialog shown by double-clicking the currently-used printer icon on the desktop.

## 11.2 General Problems of Printing

### The image controller does not respond to the Print command.

- 1 Check that the printing system is selected as the current printer.
  - The printing system must be selected as the current printer on Windows before printing.
- 2 Check that the power switch of the copier is turned on.
- 3 Print the Test Page from Windows/Macintosh.
  - When you cannot print a job from an application even though you can print a test print, contact a system administrator or a service representative.
- 4 If the message “Error” is displayed, check that the control panel is in copy mode, not scanner mode.

### Cannot select any media other than [Plain Paper] from [Paper Type].

- 1 For the PCL Driver, select [Default] from the [Basic] tab or [Cover Mode] tab to restore the default setting.
- 2 Set [Paper Tray] to a setting other than [Auto].

### A message requesting a paper size you did not specify is displayed.

- 1 Cancel the job to change the paper size in the “Page (Paper) Setup” dialog on your application.
- 2 Touch and select the desired size displayed in the paper sizes area of the control panel, then press [START]. The forced output will start.

### You cannot print the test print.

- 1 Check the LCD of the main body printer control panel.
  - When “Ready to copy” is displayed on the LCD, go to Step 3.
  - When a diagnostic message or an error message is displayed on the LCD, refer to the “User’s Guide (Copier or Main Body)”.
  - When the LCD is blank, go to Step 2.
- 2 Press [POWER SAVE] on the control panel.
  - When the main body printer is used in the Power Save mode, press this switch to show the LCD in the Display mode.

- 3 Try to make a copy.
  - When copying is available, go to Step 4.
- 4 Turn off the copier and wait for 10 seconds, then restart it. Print the test print again after the image controller is ready.
  - Contact your Konica Minolta service representative if you cannot print the test page after performing the above procedures.

**The print setting of a job does not correspond to the result of printing.**

- 1 Check that the printer setting was not changed.

**Cannot select [2-Sided]**

- 1 In the case of the PCL printer driver, click [Default] of the [Basic] tab and [Layout] tab, and return to the state of default.
- 2 Check that any item other than [Custom Size] or [Japanese Post Card] is selected in [Output Tray]
- 3 Check that [Plain Paper] is selected in the [Paper Type].
- 4 In the case of the PCL printer driver, check that the [Print Type] setting is not [Booklet].

## 11.3 General Problems of PostScript

### **A PostScript Error message displays.**

<Response>

A search can be made from [<http://www.adobe.com/cfusion/search/index.cfm?CAT=support&TERM=&LOC=en%5Fus>].

### **A PostScript Error message displays when attempting to get a printout from any computers are in use.**

<Response>

There may be loose connections in the printing system. Recheck all of connections.

### **A PostScript Error message displays when attempting to get a printout from a specific application.**

<Response>

Error conditions may exist in the application. Try to print out a simple test file. If this also does not succeed, reinstall the application in question.

### **A PostScript Error message displays when attempting to get a printout from a specific file.**

<Response>

It is possible that the print setting for the file is wrong, that graphics contained in the file are damaged, or that bad elements are contained in the file.

Find a print setting that does not cause any PostScript Error message to appear, and try to get a printout. If this fails, save the file as a new file.

### **Fonts cannot be downloaded.**

<Response>

It is possible that [Spool Print Jobs in HDD before RIP] is set to [Enable] in Printer Setting Menu on the copier's control panel.

Set [Spool Print Jobs in HDD before RIP] to [Disable], switch off the copier's main power, wait 10 seconds or more, switch it back on, and then try downloading fonts again.

For details on how to download fonts, refer to the User's Guide that comes with the fonts.

**Non fixed size paper can not be printed correctly (Macintosh).**

<Response>

The direction in which non fixed size paper is loaded in the copier may be incorrect.

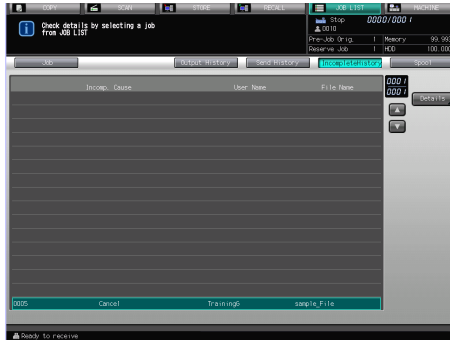
Rotate the paper direction 90 degrees and then try printing after changing the settings of the driver and copier accordingly.

## 11.4 Checking on Incomplete Jobs

If print jobs are not printed, you can check them on the Non complete Job List screen.

**To get the Non complete Job List screen to appear:**

- 1 Press [JOB LIST] on the LCD panel.
- 2 Press [IncompleteHistory].



- 3 Check the Incomplete job.




### Detail

*For more information about job list, consult your system administrator.*

# 12 Font

This chapter describes the font.

## 12.1 Font List (PCL)

 <b>KONICA MINOLTA</b>					
pcl font list					
PCL Internal Fonts					
<u>Font</u>	<u>Pitch/Point</u>	<u>Orient</u>	<u>Escape Sequence</u>	<u>Font#</u>	<u>FontID</u>
Courier	Scalable	Port	<esc>(01X<esc>{s0p10h0s0b4099T	0	
CG Times	Scalable	Port	<esc>(01X<esc>{s1p12v0s0b4101T	1	
<b>CG Times Bold</b>	Scalable	Port	<esc>(01X<esc>{s1p12v0s3b4101T	2	
<i>CG Times Italic</i>	Scalable	Port	<esc>(01X<esc>{s1p12v1s0b4101T	3	
<b>CG Times Bold Italic</b>	Scalable	Port	<esc>(01X<esc>{s1p12v1s3b4101T	4	
CG Omega	Scalable	Port	<esc>(01X<esc>{s1p12v0s0b4113T	5	
<b>CG Omega Bold</b>	Scalable	Port	<esc>(01X<esc>{s1p12v0s3b4113T	6	
<i>CG Omega Italic</i>	Scalable	Port	<esc>(01X<esc>{s1p12v1s0b4113T	7	
<b>CG Omega Bold Italic</b>	Scalable	Port	<esc>(01X<esc>{s1p12v1s3b4113T	8	
<i>Caronol</i>	Scalable	Port	<esc>(01X<esc>{s1p12v1s0b4168T	9	
<b>Clarendon Condensed</b>	Scalable	Port	<esc>(01X<esc>{s1p12v4s3b4140T	10	
Univers Medium	Scalable	Port	<esc>(01X<esc>{s1p12v0s0b4148T	11	
<b>Univers Bold</b>	Scalable	Port	<esc>(01X<esc>{s1p12v0s3b4148T	12	
<i>Univers Medium Italic</i>	Scalable	Port	<esc>(01X<esc>{s1p12v1s0b4148T	13	
<b>Univers Bold Italic</b>	Scalable	Port	<esc>(01X<esc>{s1p12v1s3b4148T	14	
Univers Med. Condensed	Scalable	Port	<esc>(01X<esc>{s1p12v4s0b4148T	15	
<b>Univers Bold Condensed</b>	Scalable	Port	<esc>(01X<esc>{s1p12v4s3b4148T	16	
<i>Univers Med. Cond. It.</i>	Scalable	Port	<esc>(01X<esc>{s1p12v5s0b4148T	17	
<b>Univers Bold Cond. It.</b>	Scalable	Port	<esc>(01X<esc>{s1p12v5s3b4148T	18	
Antique Olive	Scalable	Port	<esc>(01X<esc>{s1p12v0s0b4168T	19	
<b>Antique Olive Bold</b>	Scalable	Port	<esc>(01X<esc>{s1p12v0s3b4168T	20	
<i>Antique Olive Italic</i>	Scalable	Port	<esc>(01X<esc>{s1p12v1s0b4168T	21	
Garamond Antiqua	Scalable	Port	<esc>(01X<esc>{s1p12v0s0b4197T	22	
<b>Garamond Halbfett</b>	Scalable	Port	<esc>(01X<esc>{s1p12v0s3b4197T	23	
<i>Garamond Kursiv</i>	Scalable	Port	<esc>(01X<esc>{s1p12v1s0b4197T	24	
<b>Garamond Kursiv Halbfett</b>	Scalable	Port	<esc>(01X<esc>{s1p12v1s3b4197T	25	
<i>Mariagold</i>	Scalable	Port	<esc>(01X<esc>{s1p12v0s0b4297T	26	
Albertus Medium	Scalable	Port	<esc>(01X<esc>{s1p12v0s1b4362T	27	
<b>Albertus Extra Bold</b>	Scalable	Port	<esc>(01X<esc>{s1p12v0s4b4362T	28	

# 12.2 Font List (PostScript)

## PostScript® Fonts

### Resident Fonts

AdobeSansMM ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

AdobeSerifMM ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

AlbertusMT ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

AlbertusMT-Italic ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

AlbertusMT-Light ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

AntiqueOlive-Bold **ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'**

AntiqueOlive-Compact **ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'**

AntiqueOlive-Italic ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

AntiqueOlive-Roman ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Apple-Chancery ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Arial-BoldItalicMT **ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'**

Arial-BoldMT ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Arial-ItalicMT ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

ArialMT ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

AvantGarde-Book ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

AvantGarde-BookOblique ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

AvantGarde-Demi ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

AvantGarde-DemiOblique ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Bodoni ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Bodoni-Bold ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Bodoni-BoldItalic **ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'**

Bodoni-Italic ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Bodoni-Poster **ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'**

Bodoni-PosterCompressed ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Bookman-Demi **ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'**

Bookman-Demilight ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Bookman-Light ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Bookman-LightItalic ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Carta \*!@#%&^\*?<>~"'

Chicago ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Clarendon ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

Clarendon-Bold **ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'**

Clarendon-Light ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

CooperBlack **ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'**

CooperBlack-Italic **ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'**

Copperplate-ThirtyThreeBC ABCDEFGABCDEF0123456789[]!@#%&^\*?<>~"'

Copperplate-ThirtyTwoBC ABCDEFGABCDEF0123456789[]!@#%&^\*?<>~"'

Coronet-Regular ABCDEFGabcdeFg0123456789[]!@#%&^\*?<>~"'

Courier ABCDEFGabcdeFg0123456789[]!@#%&^\*?<>~"'

Courier-Bold **ABCDEFGabcdeFg0123456789[]!@#%&^\*?<>~"'**

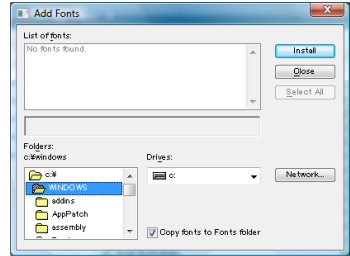
Courier-BoldOblique ABCDEFGabcdeFg0123456789[]!@#%&^\*?<>~"'

Courier-Oblique ABCDEFGabcdeFg0123456789[]!@#%&^\*?<>~"'

Eurostile ABCDEFGabcdefg0123456789[]!@#%&^\*?<>~"'

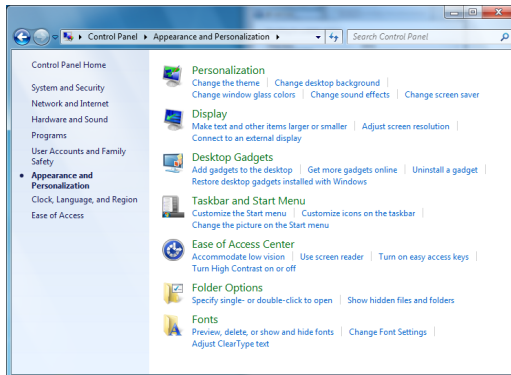


- 6 Turn on [Copy fonts to Fonts folder] check box.
- 7 Click [Install].
  - In case of Windows 2000/XP/ Server 2003, click [OK].



### In case of Windows 7

- 1 Open “\ScreenFonts” folder on the “Driver CD”.
- 2 Right -click the font to install, and select [Install].
- 3 Select [Start] - [Control Panel] - [Appearance and Personalization] - [Fonts].



- 4 Check that the font you have installed is added to the list.  
PostScript Type 1 fonts are contained in the Driver CD.

The PostScript Type 1 font has the same design as the internal printer font. It is recommended to install this font when desiring to match the monitor display with printed results in the case of printing when using the printer font.

### How to install PostScript Type1

Windows 2000/XP/Vista/7/Server 2003/Server 2008 supports PostScript Type 1 fonts at the system level just like TrueType fonts. You do not need to install ATM.

#### In case of Windows 2000/XP/Vista/Server 2003/Server 2008

- 1 Select [Start] - [Control Panel].
  - In case of Windows 2000, Select [Start] - [Settings] - [Control Panel].
- 2 Double-click on the [Fonts] icon.
- 3 Right-click in the [Fonts] folder and select [Install New Font].
  - In case of Windows 2000/XP/Server 2003, select [Install New Font] from the [File] menu.Add Fonts dialog box appears.
- 4 Open “\ScreenFonts\Type 1 Fonts” folder on the “Driver CD”.
- 5 Click [Select all].
- 6 Click [Install].
  - In case of Windows 2000/XP/Server 2003, click [OK].

#### In case of Windows 7

- 1 Open “\ScreenFonts\PS\Type 1 Fonts” folder on the “Driver CD”.
- 2 Right -click the font to install, and select [Install].
- 3 Select [Start] - [Control Panel] - [Appearance and Personalization] - [Fonts].
- 4 Check that the font you have installed is added to the list.

## 12.4 Font Management Utility

You can use “Font Management Utility” to add the PCL font and the Post-Script font to the image controller or delete them from it.

For details, refer to the User’s Guide contained in “PAGESCOPE UTILITIES CD-ROM [Font Management Utility]”.

## 13 Utility Tool

This chapter describes how to use the Utility Tool.

### 13.1 PageScope Web Connection

PageScope Web Connection can be used through the Browser application.



#### Note

*This chapter describes the function which can be used by non-administrator of the image controller. About the functions used by the adminis-*

*trator, refer to the “User’s Guide (POD Administrator’s Reference or Main Body)” for more information about copier.*

*When the [Enhanced Security] is ON, the PageScope Web Connection function cannot be used. When the [Enhanced Security] is turned from ON to OFF, the PageScope Web Connection function is kept at [OFF].*

*To enable the PageScope Web Connection function, contact your administrator.*

*The explanation here is given using the screen of “bizhub PRO 1200”. For this reason, there are some items that are not displayed for “bizhub PRO 1200P”.*

### 13.1.1 Outline of the PageScope Web Connection

This section describes the outline of the PageScope Web Connection.

The Administrator of the image controller can change the settings of the image controller with this tool.

The general users can display the status of the image controller but cannot change the settings.

This chapter describes the functions that can be used by the general user.

#### **Status to be shown**

You can display the status of the image controller by using PageScope Web Connection.

The status you can display are as follows;

- Device Information - Configuration Summary
- Device Information - Option
- Device Information - Consumables
- Device Information - Meter Count
- Online Assistance
- Network Setting Information
- Print Setting Information - Default Setting
- Print Setting Information - Font Information
- Print Setting Information - Macro List
- Print Setting Information - PCL Setting
- Print Setting Information - PS Setting
- Print Setting Information - TIFF Setting
- Current Jobs
- Job History

#### **Report to be printed**

You can print the report as follows;

- PS Font List
- PS Demo Page
- PCL Font List
- PCL Demo Page
- Configuration page

#### **Make a Direct Print**

Using the PageScope Web Connection allows you to make a Direct Print.

## 13.1.2 Start the PageScope Web Connection

### How to start the PageScope Web Connection

PageScope Web Connection can be used through the Browser application.

- 1 Start the Browser application.
- 2 Enter the IP address of the image controller in the [Address] and press the [Enter] / [Return] key.

The top page of the PageScope Web Connection appears.



#### **Detail**

*Contact your administrator about IP address of the image controller.*

## Display the variable status

### Device Information - Configuration Summary

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Device Information] from the left navigation.  
The [Device Information] page appears.
- 3 Click [Configuration Summary] from the sub navigation.  
The [Configuration Summary] page appears.



## Device Information - Option

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Device Information] from the left navigation.  
The [Device Information] page appears.
- 3 Click [Option] from the sub navigation.  
The [Option] page appears.



## Device Information - Consumables

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Device Information] from the left navigation.  
The [Device Information] page appears.
- 3 Click [Consumables] from the sub navigation.  
The [Consumables] page appears.



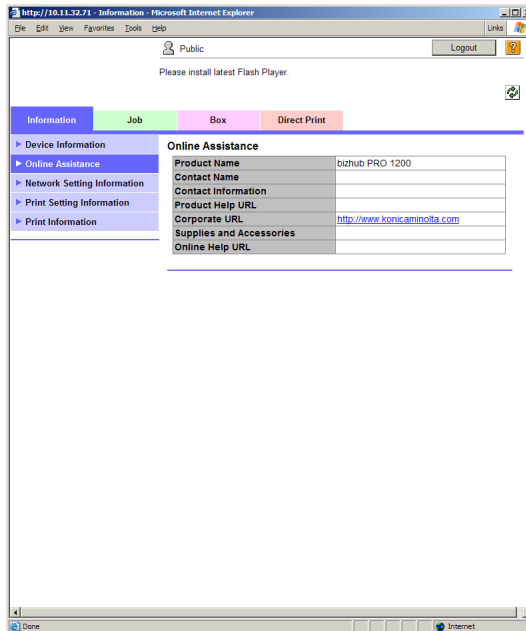
## Device Information - Meter Count

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Device Information] from the left navigation.  
The [Device Information] page appears.
- 3 Click [Meter Count] from the sub navigation.  
The [Meter Count] page appears.



## Device Information - Online Assistance

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Online Assistance] from the left navigation.  
The [Online Assistance] page appears.



## Device Information - Network Setting Information

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Network Setting Information] from the left navigation.  
The [Network Setting Information] page appears.

Public Logout

Please install latest Flash Player.

Information Job Box Direct Print

▶ Device Information  
 ▶ Online Assistance  
 ▶ **Network Setting Information**  
 ▶ Print Setting Information  
 ▶ Print Information

### Protocol Information

TCP/IP	ON
SMTP	ON
POP	ON
IPP	ON
FTP TX	ON
FTP Server	ON
SNMP	ON
SMB Print	ON
SMB TX	ON
SLP	Enable
LFD	Enable
WINS	ON
Bonjour	ON
NetWare	OFF
AppleTalk	OFF
JSP	ON

### Network Information

Type	Ethernet10/100/1000BaseT
Network Speed	Auto Setting
IP Address	0000 0000 0000 0000 0000 0000 0000 0000
MAC Address	00 50 AA 29 43 1C
Host Name	KMBT29431C
Print Server Name (Netware)	KMBT29431C
Workgroup Name (SMB)	WORKGROUP
Printer Name (AppleTalk)	KMBT29431C
Current Zone Name (AppleTalk)	*
Bonjour Name(Bonjour)	KONICA MINOLTA bizhub PRO 1200 (29.43.1C)

## Print Setting Information - Default Setting

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Print Setting Information] from the left navigation.  
The [Print Setting Information] page appears.
- 3 Click [Default Setting] from the sub navigation.  
The [Default Setting] page appears.



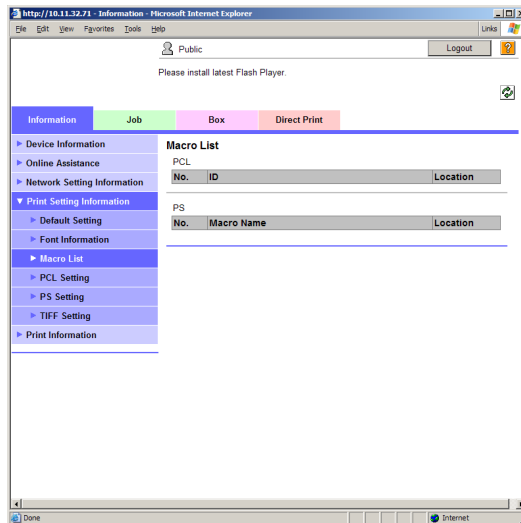
## Print Setting Information - Font Information

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Print Setting Information] from the left navigation.  
The [Print Setting Information] page appears.
- 3 Click [Font Information] from the sub navigation.  
The [Font Information] page appears.



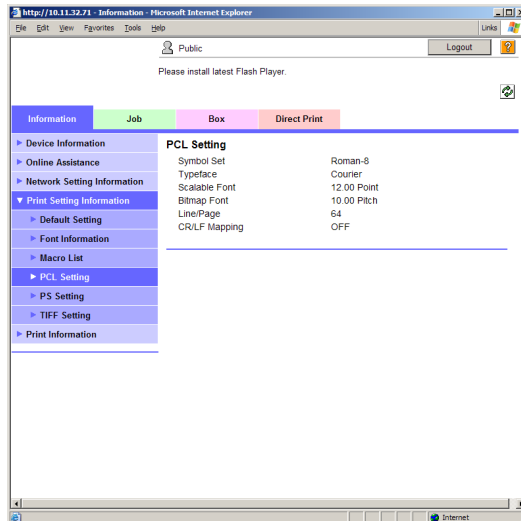
## Print Setting Information - Macro List

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Print Setting Information] from the left navigation.  
The [Print Setting Information] page appears.
- 3 Click [Macro List] from the sub navigation.  
The [Macro List] page appears.



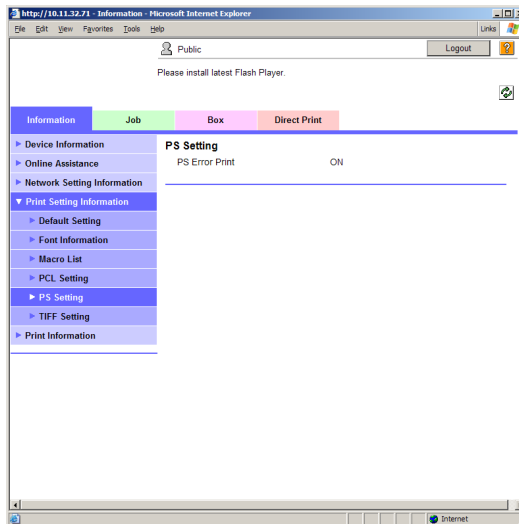
## Print Setting Information - PCL Setting

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Print Setting Information] from the left navigation.  
The [Print Setting Information] page appears.
- 3 Click [PCL Setting] from the sub navigation.  
The [PCL Setting] page appears.



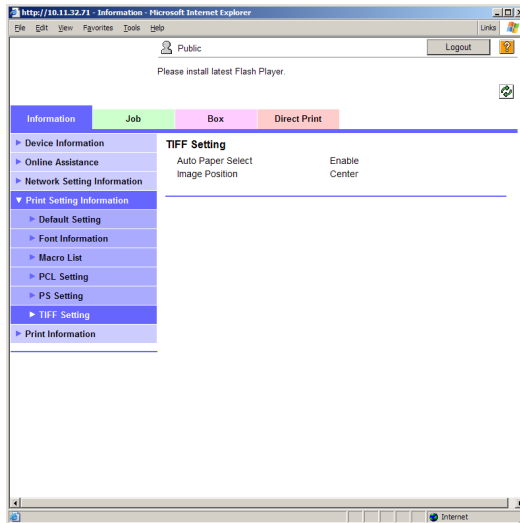
## Print Setting Information - PS Setting

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Print Setting Information] from the left navigation.  
The [Print Setting Information] page appears.
- 3 Click [PS Setting] from the sub navigation.  
The [PS Setting] page appears.



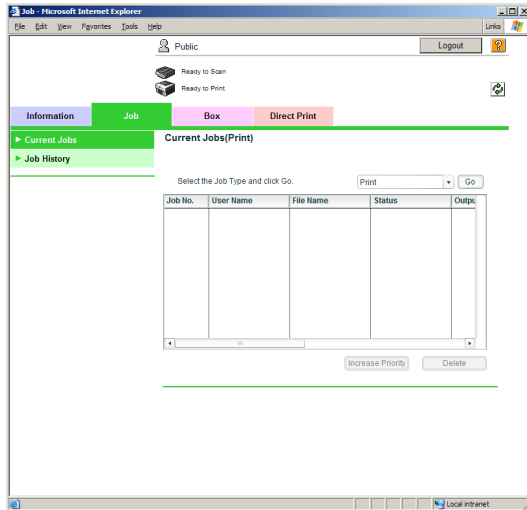
## Print Setting Information - TIFF Setting

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Print Setting Information] from the left navigation.  
The [Print Setting Information] page appears.
- 3 Click [TIFF Setting] from the sub navigation.  
The [TIFF Setting] page appears.



## Current Jobs

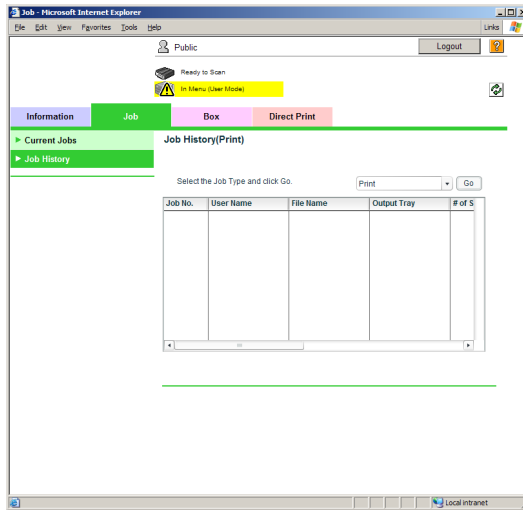
- 1 Click [Job] from the top navigation.  
The [Job] page appears.
- 2 Click [Current Jobs] from the left navigation.  
The [Current Jobs] page appears.



- 3 After selecting [Print] or [Scanner Transmission] from the pull-down menu provided at the upper left of the list, click [Go] to change the contents of the list.

## Job History

- 1 Click [Job] from the top navigation.  
The [Job] page appears.
- 2 Click [Job History] from the left navigation.  
The [Job History] page appears.

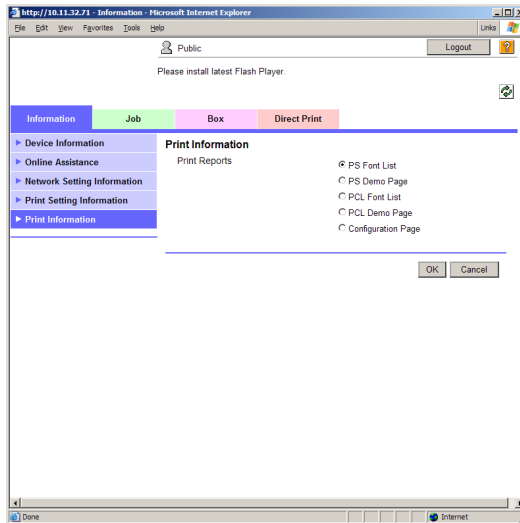


- 3 After selecting [Print] or [Scanner Transmission] from the pull-down menu provided at the upper left of the list, click [Go] to change the contents of the list.

### 13.1.3 Print the Report

#### How to print the report

- 1 Click [Information] from the top navigation.  
The [Information] page appears.
- 2 Click [Print Information] from the left navigation.  
The [Print Information] page appears.



- 3 Select the report type to be printed.
- 4 Click [Print].  
The report is printed.



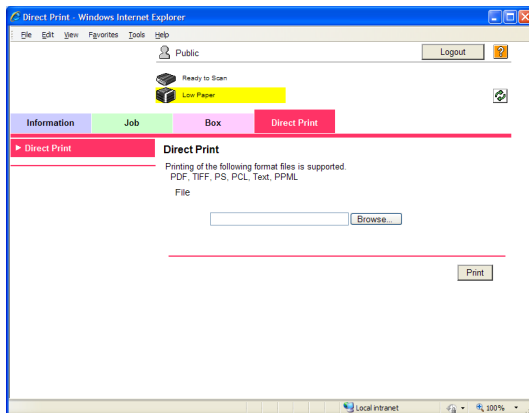
#### Note

*About the report type, refer to "Report to be printed" on page 13-3.*

## 13.1.4 Make a Direct Print

### How to Make a Direct Print

- 1 Click [Direct Print] from the top navigation.  
The [Direct Print] page appears.



- 2 Click [Browse], select file to be printed and click [OK].  
The [Direct Print] page will be restored.
- 3 Click [Print].  
The direct print of a specified file is made.

## 13.2 NetWare

This printing system works with IPX/SPX (Internetwork Packet Exchange / Sequenced Packet Exchange).

This section explains how to configure a NetWare File Server, a NetWare Print Server, and a NetWare queue.

The image controller supports the system environment described below.

Version	Protocol	Emulation	Service Mode
NetWare 3.2	IPX	Bindery	Pserver/Rprinter
NetWare 4.x	IPX	NDS	Pserver/Nprinter
NetWare 5.x	IPX	NDS	Pserver
NetWare 6	TCP/IP		NDPS(lpr)

### Setup for NetWare 3.x

Before setting up NetWare, you have to define the print server name, etc., from the Web Utilities.

The setup procedure of NetWare 3.x is as follows. To perform this procedure, you need authorization to perform this procedure.

- 1 Start up PCONSOLE and select the file server to use.
  - Refer to the manual of Novell NetWare for setting up with PCONSOLE.
- 2 Generate and assign a print queue.
- 3 Define the network interface card as the print server.
- 4 Define the notification list/password as necessary.
- 5 Set up the primary file server as necessary.

On completion of setup, turn off the main power of the image controller and the main body printer and turn it on again.

The main body printer will print out a Status Page indicating the file servers equipped with print server and the queues that the file servers will service.

**Note**

*Define the primary file sever if the network connects to many sites and has more than one file server. PCONSOLE should be used to set up the primary file sever.*

**Setup for NetWare 4.x-6**

Novell NetWare 4.x-6 can operate in two modes, NetWare Directory Service (NDS) and Bindery Emulation Service (Bindery Emulation). Bindery Emulation and NDS will be executed simultaneously. It is also possible to set up the print server so that it operates only in Bindery Emulation mode or in NDS mode.

The print server set up for NDS mode will also service the file server of an old version operating in Bindery mode.

If NDS is not set up properly for the print server and Bindery Service mode is not operating, the print server cannot find the file server and Novell NetWare protocol will be indicated as inactive in the Status Page.

**Setup information****NDS**

Novell Directory Service (NDS) offers a different, more advanced approach to network management than previous NetWare versions. Generally, it stores and tracks all network objects.

All 4.x-6 servers must have NDS loaded in order to function. In this way, every NetWare 4.x-6 server is a Directory server, because it services named Directory objects such as printing systems, print server and print queues.

With the appropriate privileges, you can create a print server object, which, once configured in its context (or location) on the network, eliminates the setup of print servers on every network server.

NDS provides true enterprise networking based on a shared network database rather than individually defined physical sites. The result is a greatly improved print server setup and management.

**Bindery Emulation**

NetWare 4.x-6 also provides backward compatibility for 3.x and 4.x-6 print service through Bindery emulation.

The Directory Information Base (DIB) is used to store information about servers and services, users, printing systems, gateways, etc. It is a distributed database, allowing access to data anywhere on the network wherever it is stored.

Pre-4.x-6 NetWare versions provide the same data found in the DIB but the data is stored in the NetWare Bindery. The DIB was designed with more flexible access, more specific security, and, since it is distributed, was designed to be partitioned.

The Directory uses an object-oriented structure, rather than the flat-file structure of the Bindery, and offers network-oriented access, rather than server-oriented access found in the Bindery.

The Directory is backward-compatible with the NetWare Bindery through Bindery Emulation mode. When Bindery emulation is enabled, Directory Services will accept Bindery requests and respond just as if a Bindery existed on the NetWare server being accessed.

Be aware that information obtained from the Bindery query may not be stored in the server since the Directory is a partitioned and distributed database. Even though the NetWare 4.x-6 server is not operating from a Bindery, the applications making Bindery requests will not know the difference.

## **NDS setup**

### **PageScope Web Connection**

See your system administrator about PageScope Web Connection.

### **Novell NWADMIN**

Novell NWADMIN (NetWare Administration) is used to generate a directory tree and print queue objects in the print server, printing system and tree.

The network interface card is provided with a plug-and-play feature to support NetWare administration utility (NWADMIN) that enables the NDS administrator to perform centralized management of print servers.



#### **Detail**

*Refer to the Novell NetWare manual for details of Setup with NWADMIN.*

### **PCONSOLE**

NetWare allows the use of PCONSOLE as an alternative of NWADMIN. PCONSOLE is used to set up static information of print servers regarding which queues to service and to whom information is given in case of trouble.

**Detail**

*Refer to the Novell NetWare manual for details of setup with PCONSOLE of NDS.*

**Setup for Bindery Emulation****Make sure of the Bindery Context.**

Before connecting the print server (network interface card) to the Novell NetWare 4.x-6 server of Bindery mode, make sure that the NetWare server contains the bindery context.

If the bindery context does not exist, the network administrator should modify the AUTOEXEC.NCF file to add an adequate SET command and restart the NetWare server or enter a SET command from the console prompt to make changes.

Note that any command entered following the console prompt is effective immediately but the definition of the autoexec.ncf file becomes effective only after turning off power and on again.

**Setup with PCONSOLE in Bindery mode.**

If you are sure that the bindery context exists in the file server, you can set up the print server with PCONSOLE.

**Detail**

*Refer to the Novell NetWare manual for details of setup with PCONSOLE.*

*In Bindery mode, only upper-case letters are valid for the printer server password.*

### 13.3 UNIX Printing through TCP/IP

This section explains how to configure the network interface card and your network for use with TCP/IP communication in various UNIX environments. Independent setup and installation procedures are provided for most popular UNIX systems.

The TCP/IP capability of the network interface card will also operate with lpr spoolers on other systems, and with spooler/supervisor capabilities that communicate raw print jobs to the TCP/IP port of the network interface card. This port number is 10001.



#### Note

*SNMP (Simple Network Management Protocol) is a protocol for network management services. SNMP is supported for Management Information Base (MIB) II over the IP for the network interface card. This support allows you to query MIB II to get system information about the network interface card.*

The network interface card can support UNIX TCP/IP printing in two modes:

- Host-based where a supplied line printer daemon is run on one or more workstations and print data is communicated to the network interface card via a TCP/IP port.
- Printer-based lpd where the image controller appears as a host running a line printer daemon.

Many operating systems provide the option of using host-resident printing or printer-resident printing.

In general, printer-based lpd is easier to use on BSD UNIX systems. This requires an entry in the printcap file once the network interface card has its IP information. Some UNIX System V systems have restrictions on support of remote lpd printers, requiring that the host-based lpd approach be used.

Each printing mode has certain advantages over the other mode, as follows:

- The host-resident method can print the username and filename on its banner page; whereas the printer-resident method prints a banner page with the host's name.
- The printer-resident method requires you to configure the image controller and the network interface card only one time, when you install the network interface card; whereas, the host-resident method requires that a printing daemon be installed on every host that you want to be able to print jobs.

**Note**

*The network interface card will also operate with other host-resident print supervisor/spooler programs that present a print image to the image controller over a TCP/IP port.*

**Printing overview**

Considering both the host-based and printer-based TCP/IP printing capabilities, the network interface card works with the following systems:

- All UNIX systems that support lpd
- System V Rel. 4 (on 386 platforms)
- Solaris:
  - Version 1.1.3 (SunOS 4.1.3),
  - Version 2.3 (SunOS 5.3),
  - Version 2.4, and
  - Version 2
- HP-UX Series 700 and 800 Version 9.01 and Version 10
- IBM AIX Version 3.2.5 and Version 4.0
- SCO UNIX Version 3.2
- AS400

**Note**

*If the systems you are using do not run lpd, refer to “Installing UNIX TCP/IP programs”.*

*The UNIX-TCP/IP Programs on accompanying CD-ROM also include source code so that you can recompose host-based code for configuring on other System V platforms.*

**Configuring IP address to the network interface card**

Regardless of the printing mode selected, the network interface card must be given the IP address and routing parameters. You can configure the IP address for the network interface card in one of the following ways:

- Use DHCP (Dynamic Host Configuration Protocol).
- Use arp and ping capability.
- Use BOOTP (Internet Boot Protocol).
- Use reverse ARP (rarp) capability (Ethernet II frame type only).
- Use arp command, MAP (Management Access Program), or BOOTP Lite for Windows.

**Note**

*You can use the BOOTP, rarp, or arp and ping procedures only when the network interface card is in its default state (when no IP information has been entered).*

Depending on the topology, you may need to provide the MAC address of the network interface card. The MAC address is the 12-character code that is printed on the Status Page each time the image controller and the main body printer is turned on.

After the network interface card has an IP address, you must use the MAP utility, or other dedicated utilities (for Windows or Macintosh) to change an IP address, Subnet Mask and Default Gateway.

**lpd UNIX Printing**

lpd is an implementation of the standard UNIX line printer daemon that lets you print across a TCP/IP network without the need to install software on your workstation, with all filtering and banners done by the network interface card.

Remote printing uses the same commands (lpr, lpq, lpc) as local printing.

The process begins when the lpr call finds the printer on a remote system by looking at the remote (rm) entry in the /etc/printcap file for that printer.

lpr handles a print job for a remote printer by opening a connection with the lpd process on the remote system and sending the data file (followed by the control file containing control information for this job) to the remote system.

The printer-based lpd then filters the data and prints the job according to information contained in the control file and its own printcap file.

The network interface card lpd recognizes the format of a certain printer emulation and filters the data, if possible, so it can be printed on the printer you specify.

You can indicate to the network interface card lpd what type of image controller it is attached to by either:

- Accepting the default port setting (PCL, PostScript and other), or
- Changing the listed emulations via a standard IP based Web Browser.

The sections that follow give specific lpd setup instructions for various systems.

**Setting Up a BSD Remote Printer to Use lpd**

To set up a remote printer on the host that sends jobs to the network interface card using printer resident lpd, add an entry to the /etc/printcap file on your host for each printer you use. Perform the following procedure:

- 1 Open the `/etc/printcap` file.
  - Make an entry naming the network interface card as the remote host and PRINT as the remote printer name. A typical printcap entry is as follows:
  - `<printer_name>\` (for example, `lprprinter`)  
`:lp=:\`  
`:rm=<remote_host>:\` (for example, name as entered in `/etc/hosts`)  
`:rp=PRINT`  
`:sd=/usr/spool/lpd/<printer_name>`  
(for example, spool directory on system used to spool data and control files)

This entry will send jobs spooled at `/usr/spool/lpd/<printer_name>` to the printer designated `<printer_name>` to be printed at PRINT (the internal connection to the printer) of the network interface card designated as `<remote_host>`.
- 2 Create the spooling directory. For example, type:
  - `mkdir /usr/spool/lpd/<printer_name>`
- 3 To print via the spooler, use the `lpr` command. Type:
  - `lpr-P <printer_name> <file_name>`
  - Installation and testing are done. You are now ready to print.

### Setting Up an AIX version 3.2.5 Remote Printer to Use lpd

Use the following procedure to set up a remote printer on the host that sends jobs to the network interface card using the lpd of the network interface card.

- 1 At the prompt, type:  
`#smit spooler <cr>`
- 2 When a window appears, select [Manage Remote Printers].
- 3 When a menu appears, select [Client Services].
- 4 Another menu appears, select [Remote Printer Queues].
- 5 Another menu appears, select [Add a Remote Queue].
- 6 When a window appears, change the values shown to configure the network interface card.
  - The values displayed are default values. You must replace the short and long form filter values with the values shown in the following table.

**7** After you have supplied all values, press Enter.

You can now print.

Data Requested	Example	Data Description
Name of queue to add	print1	Name of local printer
queue Destination Host	printfast	NIC IP hostname
Short Form Filter	/usr/lpd/bsdshort	Required value
Long Form Filter	/usr/lpd/bsdlong	Required value
Name of remote printer queue	PRINT	Network interface card
Name of device to add	print1	Name of local queue

### Setting Up an AIX 4.0 System

Use these procedures to install the network interface card in a AIX 4.0 system:

- 1** Run SMIT Printer.
- 2** Select [Print Spooling].
- 3** Select [Add a Print Queue].
- 4** Select [Remote].
- 5** Use [Standard Processing].
- 6** Assign a queue name.
- 7** Use the host address of the Network Interface Card for the Remote System.
- 8** Use [PRINT] for the queue on the remote system.
- 9** Add a description (optional).
- 10** Press [Enter] to generate.
  - Installation is complete. Test your printer by executing the following command:
  - `lp -d<queue_name> <file_name>`

### Setting Up an HP-UX Remote Printer to Use lpd

Set up a remote printer on the host that sends jobs to the network interface card using the lpd of the network interface card. To do this:

- 1 At the prompt, type:
  - sam
- 2 When a window appears, select [Printer/Plotter Manager].
- 3 When the menu appears, select [List printer and plotters].
- 4 When a list appears, select [Actions] in the title bar.
- 5 From the pull-down menu, select [Add Remote Printer].
- 6 When a window appears, add values to configure the network interface card.
- 7 At the bottom of the screen, select [Remote Printer is on BSD system] from the three choices available.
- 8 Click on the [OK].
- 9 Ping the unit to test communications. Type:
  - ping <IP address of the network interface card>
- 10 Ping should confirm your IP address with the message:
  - <IP address of the network interface card> is alive
- 11 If the connection is confirmed, you can now print.

**See example below.**

Data Requested	Example	Description of Input Data
Printer Name	myprinter	name to be used in lp command
Remote System Name	fastprint	Network Interface Card host-name as in /etc/hosts
Remote printer Name	PRINT	lpd queue name

### Setting Up an AS/400 System to Use lpd

When working with the output queue description (WORKOUTQD), there are several fields that must be defined for the network interface card to function properly as a remote printer device.

Use the following procedure to define fields for the network interface card to make it function as a remote printer:

- 1** When prompted for the remote system, type INTNETADR so the AS/400 recognizes the device as an IP device
- 2** Port must be [PRINT].
- 3** Connection type must be [IP].
- 4** Internet address must be the IP address of the network interface card.
- 5** Destination type must be [OTHER].
- 6** When prompted for transforming SCS to ASCII, type YES to allow the AS/400 do the character translation.
- 7** Manufacturer type and model must be the print driver that goes with your image controller.

## Setting Up a SCO UNIX Remote Printer to Use lpd

Use the following procedure to set up a remote printer on the host that sends jobs to the network interface card using lpd.

- 1** At the prompt, enter the `mkdev rlp` command.
  - You cannot run `mkdev rlp` twice. If you have additional printers to be configured, use the `rlpconf` command.
- 2** You are now asked a series of questions. Respond as follows (shown in bold type):
  - Please enter a printer name: **lprprinter1**
  - Is `lprprinter1` a remote printer or a local printer? **R**
  - Enter remote host name: **lprprinter**
  - Confirm the information you entered: **Y**
  - Confirm the preceding connection as your system default: **Y**
  - Enter another printer name or quit setup: **Q**
- 3** If necessary, stop and restart your remote daemon.
- 4** Using a line editor of your choice, edit the `/etc/printcap` file and change the:  
`rp=`entry to `PRINT`.

## Setting Up System V Release 4 and Solaris 2.X to Use lpd

If your system recognizes the LPSYSTEM command, you do not need to install the dedicated utility, Konica Minolta's host-side software. Another option is the admintool if your system supports it.

### LPSYSTEM Installation

The following procedure must be executed from the Bourne Shell.

Type: SH then press Enter to enter the Bourne Shell program.

Use the following procedures to install LPSYSTEM:

- 1** `lpsystem -t bsd < Print server host name in /etc/hosts file >`
- 2** `lpadmin -p <local printername> -s <remote host name or IP address>`
  - !PRINT
  - Your system may want its IP address instead of the remote host name.
- 3** `Enable <local printername>`
- 4** `Accept <local printername>`
- 5** Printing on Linux

## 13.4 ToneCurve Utility

Using the ToneCurve Utility allows you to adjust the brightness and the contrast of the document to be printed. The tone curve that has been registered can also be used by other computers on the network.



### Note

*The tone curve that has been created by the ToneCurve Utility and registered with the image controller can be selected only by the PPD Plug-in Driver to be used for printing.*

*For details of the ToneCurve Utility, refer to the help file.*

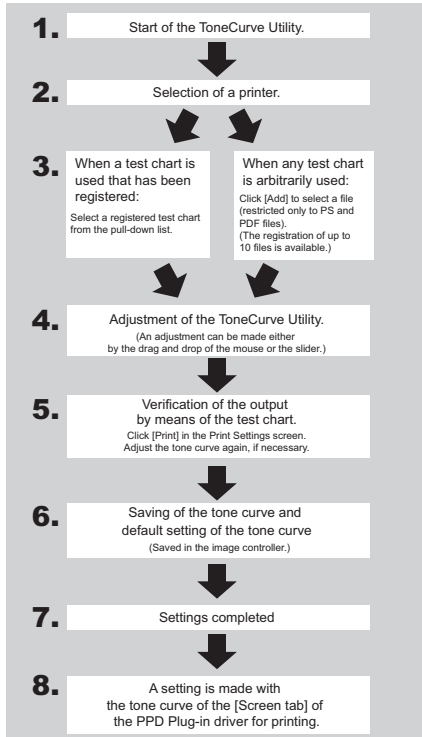
The following OS versions are compatible with ToneCurve Utility.

#### Compliant OS

Windows 2000 Professional (SP4 or later)  
Windows XP Professional (SP2 or later) \*  
Windows Server 2003 (SP1 or later) \*  
Windows Vista Business \*  
Windows Vista Enterprise \*  
Windows Vista Ultimate \*  
Windows Server 2008 Standard \*  
Windows Server 2008 Enterprise \*  
Windows Server 2008 Standard without Hyper-V \*  
Windows Server 2008 Enterprise without Hyper-V \*  
Windows 7 Professional \*  
Windows 7 Enterprise \*  
Windows 7 Ultimate \*

\* Compatible with 32-bit (x86)/64-bit (x64) environment.

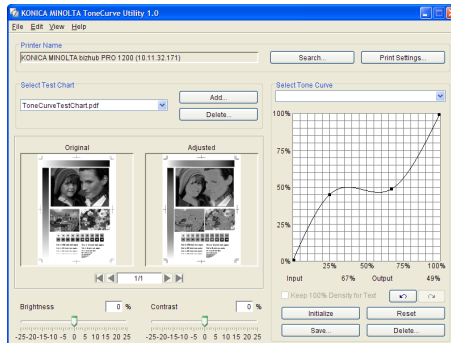
The flowchart for the operation of ToneCurve Utility is as described below.



**Note**

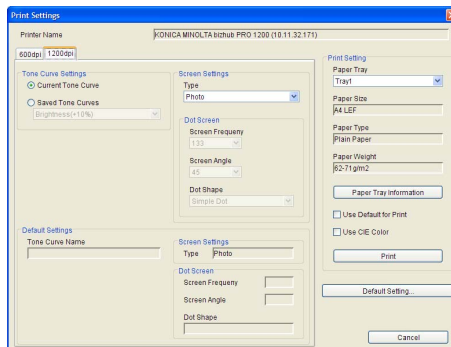
*Files in excess of 10 pages cannot be added to the Test Chart.*

## Main window of the ToneCurve Utility



- Click [Add] and select a file to add a test chart.
- To adjust the tone curve, slide the slider of [Brightness]/[Contrast] or drag and drop the mouse at the adjustment point in the tone curve area.
- Click [Save] to save the settings of the tone curve.
- [Keep 100% Density for Text] gets active only when the output value of the tone curve is set below 100%. When [Keep 100% Density for Text] is not checked, take note of the density of characters.

## Print Settings window



- Clicking [Print Settings] with the tone curve adjusted displays the Print Settings window. In the Print Settings window, the screen settings and the print settings are made.
- Clicking [Print] allows you to make a print for verification.

- Clicking [Default Setting] allows you to specify the tone curve and the screen to be used for default. This allows you to simplify the settings in the PPD Plug-in driver.
- Since putting a check on [Use CIE Color] causes a color conversion process to be conducted through the XYZ color space, the level of gradient can be raised, in which case, however, a longer time may be required for output.

## 14 Appendix

### 14.1 Setting the Software Switch

When there occurs any problem listed in the table below, such a trouble may be eliminated by switching [Software Switch].

The setting of [Software Switch] can be made by pressing the buttons: [MA-CHINE] - [Controller] - [08 Administrator Setting] - [01 Software Switch Setting] in this order on the control panel of the copier.

All is Off (0) in default of the memory switch.



#### Note

*Be absolutely sure not to switch over SW No. that is not listed in the table.*

*For the setting of the software switch, you may require some expertise.*

*For details, contact your service representative.*

Memory Switch No. to be checked	Trouble	Effect of the switch (when turned On (1))
1	The paper size is desired to be identified by using the value of the Crop-Box while in the PDF direct print. (Normally, the value of the Media Box is used as a standard.)	When the value of the MediaBox of the PDF file is different from that of the CropBox, the paper size is identified by using the value of the Crop-Box.
2	When a number of print jobs are put together in a file to be printed with an LPR command, the LPR transmission is terminated in error with JobAborted displayed.	The print job can be made with no error occurring. However, the printing speed may get slower. After switching over, the main power is required to be turned OFF and ON.
3	It is to be desired that an error page is printed when a file has been output that is not supported.	An error page is printed when a file not supported is received (except PostScript error).
4	When a number of PostScript jobs are put together in a file to be output through the Network, it is to be desired that they are output as multiple jobs with CTRL-D used as a job delimiter.	The PostScript data in a file can be output as multiple jobs with CTRL-D used as a job delimiter. Outputting jobs including font data and the EPS data may cause error pages to be output.
5	When PostScript jobs including the EPS data are output through the USB port, error pages may be output.	PostScript jobs including the EPS data can be output. However, the job will continue until the USB transmission is time-out. (Only jobs for PostScript)

Memory Switch No. to be checked	Trouble	Effect of the switch (when turned On (1))
6	When the color image is output through the PostScript driver, an output is made with some of the halftone section smeared in black.	The reproducibility in the halftone section of the color image is improved. However, irrespective of color and monochrome, the printing speed may get slower. After switching over, the main power is required to be turned OFF and ON.
7	When a number of jobs are put together in a single file to be output, it is to be desired that an output is made as a multiple job with a bundle by the PjL JOB NAME or PjL EOJ NAME command used as a job delimiter.	The print data in a file can be output as multiple jobs with a bundle by the JOB NAME or PjL EOJ NAME command used as a job delimiter.
8 9	It is to be desired that the permissible range of the auto detection of the regular paper size is changed while in the TIFF direct print.	<p>The On (1)/Off (0) combination of the switches 8 and 9 allows the permissible range to be changed.</p> <p>(1) No.8: [0], No.9: [0] --&gt; +0.9mm - -10.0mm (2) No.8: [1], No.9:[ 0] --&gt; +0.9mm - -4.0mm (3) No.8: [0], No.9: [1] --&gt; +0.9mm - -0.9mm</p> <p>The permissible range gets narrower in the order of (1) --&gt; (2) --&gt; (3) and is more liable to be recognized as an irregular size.</p>
11	It is to be desired that the specification of the paper feed tray of the copier is set to [Auto] at all times. (Normally, the specification of the paper feed tray of the driver is reflected.)	The paper feed tray of the copier is set to [Auto] at all times. In that case, however, no specification of the paper feed tray from the printer driver is also reflected.
12	It is to be desired that a file name specified with an argument of the LPR command is displayed in the list as a job name. (Normally, a job name specified with an original or driver is displayed.)	A file name specified with an argument of the LPR command is displayed in the control panel.
13	In the font list display of the Font Management Utility, the font type of the RAM font is displayed as [HDD].	In the font list of the Font Management Utility, the font type of the RAM font is displayed as [RAM]. However, more time may be required for the installation of the Postscript font.
14	When the Letter Tab size is output as a PDF direct print, a sheet of 9x11 inch size paper is required by the copier.	An output is made in the Letter Tab size.

Memory Switch No. to be checked	Trouble	Effect of the switch (when turned On (1))
15	When a cover insertion setting is made for Mac OS 10.5 or later version and an output is made with a multiple copy specified, no more than one copy is output.	When a cover insertion setting is made, the number of copies can be output as specified. However, outputting jobs including font data and the EPS data may cause error pages to be output.
16	Even when “-J” is specified for the LPR command, no banner output is available.	A banner output is available with “-J” specified for the LPR command. However, a banner may be output even for normal printing with no banner.
17	In PPML data, the laid out image data may not be printed in a desired size.	(0): Determining the image size based on the Dimensions attribute in the SOURCE element described in the PPML file. (1): Determining the image size based on the size and resolution information in the image data.
18/19/20/21	If PPML data is described in a character code other than UTF-8, the folder and file names are loaded improperly due to garbled characters.	(0000): Shift_JIS (Japanese for Windows) (1000): windows-1252 (FIGS for Windows OS) (0100): x-mswin-936 (Chinese for Windows OS) (1100): x-windows-949 (Korean for Windows OS) (0010): x-MS950-HKSCS (Taiwanese for Windows OS)
22	A backside blank page specified by the tray specification command is ignored when using the PCL5e driver for performing a duplex printing.	(0): Does not insert a blank page. (1): Inserts a blank page.
41	When the IPv6+IPSec communication is made in the same subnet, it is to be desired that the operation is made with ICMPv6 not eliminated from IPSec. (Normally, the operation is made with ICMPv6 eliminated from IPSec.)	It is to be desired that ICMPv6 is not eliminated from IPSec. After switching over, the main power is required to be turned OFF and ON.

## 14.2 Procedure for installation with Linux

### Operation checking environments (as of April, 2009)

The following operating environments are being checked.

Operating systems	Red Hat Linux 9.0, SuSE Linux 8.2
CUPS Version	1.1.22 or 1.2.0
Connecting the computer and printer	USB connection, Parallel connection, Network connection (AppSocket/HP JetDirect, IPP, LPD/LPR)
RAM	More than OS recommendation (128 MB or more is recommended)
Available hard disk space	256 MB or more



#### Detail

*This chapter describes the procedure for installation with Linux. Refer to “PostScript PPD Printer Driver setting (Windows)” on page 9-1 about printing function.*

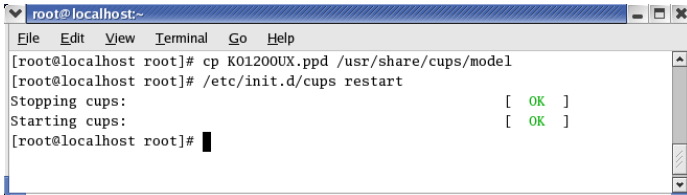
*As an example, the descriptions of the operations for Red Hat 9.0 are provided in this chapter.*

*When using Linux, please note that its actual use should be made on the customer’s own responsibility. We will not take any responsibility for damages that may be caused as a result of Linux being used by the customer.*

#### To get the PPD file read into the CUPS

- ✓ Before proceeding with the installation, be sure to exit all running applications.
  - ✓ Root privileges are required in order to install ppd file.
- 1 Copy the ppd file (KO1200UX.ppd) to the “/usr/share/cups/model/” on the computer.
    - For acquisition of the PPD driver for Linux, contact your service representative.
    - For details on the procedure for printing from OpenOffice, refer to “Example Using OpenOffice or using Star Suite” on page 14-6.
  - 2 From the Main Menu, select System Tools, then Terminal.
  - 3 Get the PPD file that has been copied read into the CUPS. And then restart the CUPS.

- For example: Enter “/etc/init.d/cups restart”.
- The following command may be available depending on the method by which the installation is made.
- /etc/re.d/init.d/cups restart
- /sbin/init.d/cups restart
- “killall-HUP cupsd”



```

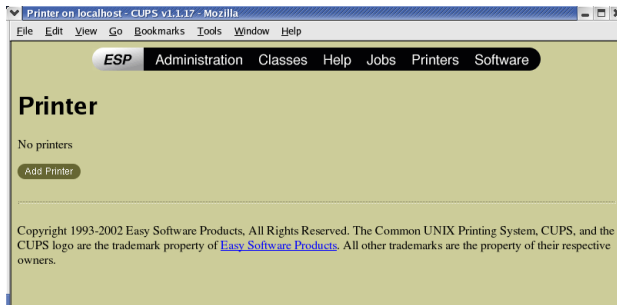
root@localhost:~
File Edit View Terminal Go Help
[root@localhost root]# cp K01200UX.ppd /usr/share/cups/model
[root@localhost root]# /etc/init.d/cups restart
Stopping cups:                [ OK ]
Starting cups:                 [ OK ]
[root@localhost root]#

```

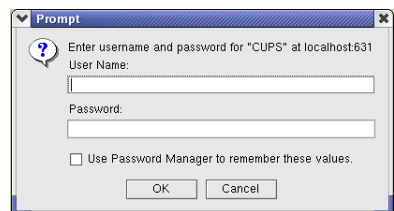
### Adding the Printer

- ✓ After copying the PPD file, be sure to restart CUPS.

- 1 Start up the Web browser.
- 2 Enter the URL “http://localhost:631”, and then click [Manage Printers].  
The CUPS Administration Web page appears.



- 3 Click [Add Printer].  
A pop-up window appears.
- 4 Enter the user name and password for using root privileges, and then click [OK].
- 5 Enter the printer name, location, and description if necessary, and then click [Continue].



- 6 Select a Device Port from the Device list, then click [Continue].
  - In case of IPP Printing  
Select Internet Printing Protocol (ipp).  
For the Device URI, enter “ipp://192.168.1.190/ipp”
  - In case of LPD Printing  
Select LPD/LPR Host or Printer.  
For the Device URI, enter “lpd://192.168.1.190/lp”  
Enter the device URI in the following form: socket://<Printer IP or Printer Hostname>[:port]  
Example:  
Using Printer IP - socket://192.168.1.190:9100  
Using printer Hostname - socket://Hostname:9100  
Hostname may be substituted by IP Address, and Port is optional.
  - In case of USB Printing  
Select USB Printer #1 (KONICA MINOLTA bizhub PRO 1200/1200P/1051).  
If it is not displayed, restart the machine.
  - In case of Parallel Printing  
Select Parallel Port #1.
- 7 Click [Continue].
- 8 Select “KONICA MINOLTA”, click [Continue].
- 9 Select “KONICA MINOLTA1200/1051PS(P)”, then click [Continue].

## Specifying Printer Driver Settings

### Displaying the Settings Page

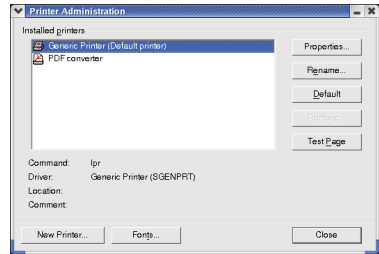
- 1 Start up the Web browser.
- 2 Enter the URL “http://localhost:631”, and then click [Manage Printers].  
Printer on localhost.localdomain window appears.
- 3 Click [Configure Printer].  
The printer driver settings page appears.

### Example Using OpenOffice or using Star Suite

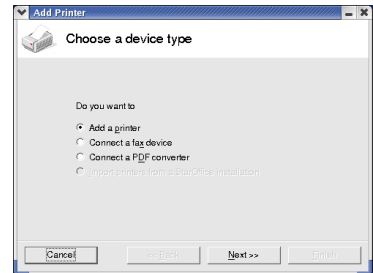
- ✓ Paper sizes supported by the bizhub PRO 1200/1200P/1051 may not be displayed when the OpenOffice is being used. In such a case, follow the procedure given below. However, the procedure described here is applicable when the OpenOffice 1.0.2 is used on the RedHat9 and the procedure and operation given below may vary according to the version of an OS used.

- 1 From the main menu, select [Office], then [OpenOffice.org Printer Setup].

The printer Administration dialog box appears.

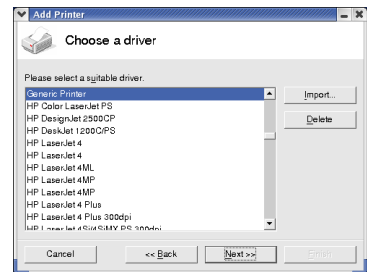


- 2 Click [New Printer].  
The Add Printer dialog box appears.



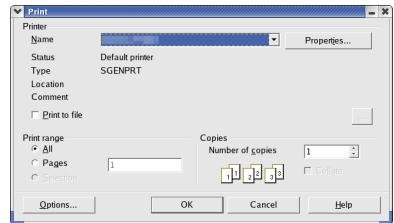
- 3 Check that Add a printer is selected, and then click [Next].
  - Depending on the application that is used, the button may be displayed in gray-out.

The printer selection list appears.



- 4 Click [Import].  
Driver Installation dialog box appears.
- 5 Enter /usr/share/cups/model/ in the driver directory and then click [Browse].
- 6 Click [Select] from Select path windows.
- 7 In the Selection of drivers list, select “KONICA MINOLTA 1200 OpenOffice PPD”.
- 8 Click [OK].
- 9 Select “KONICA MINOLTA 1200 OpenOffice PPD” (KO1200opn.ppd), and then click [Next].

- 10 In the command line, enter “lpr -P” followed by the name of the printer added first, then click Next.
- 11 Change the printer name.
- 12 Click [Finish]. The Printer Administration dialog box appears again.
- 13 Click [Close].
- 14 From the main menu, select [Office], then [OpenOffice.org Writer].
- 15 Click [Print] in the File menu.  
The Print dialog box appears.
- 16 Select the name of the printer specified in the OpenOffice printer settings.
- 17 Click [OK].



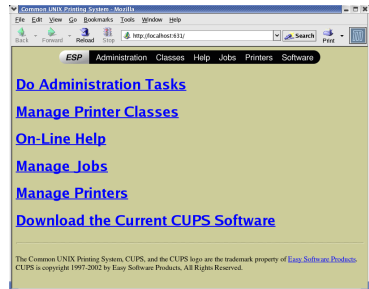
## Checking Print Jobs

You can check the status of print jobs from a Web browser.

1 Start up the Web browser.

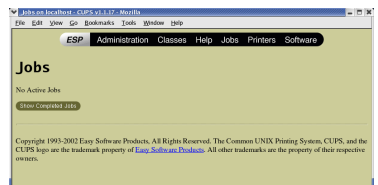
2 Enter the URL “http://localhost:631”.

The CUPS Administration Web page appears.



3 Click [Manage Jobs].

A list of the currently active print jobs appear.



### Detail

*To check the status of completed print jobs, click [Show Complete Jobs].*

*Refer to “Advanced Options windows” on page 9-23 for more information about “Finishing Options”.*

## 14.3 Glossary

Item	Description
10BASE-T/100BASE-TX/ 1000BASE-T	Types of specifications in compliance with the Ethernet standard. Cables made of two stranded copper wire rods are used. Communication speed is 10Mbps with 10Base-T, 100Mbps with 100Base-TX, and 1000Mbps with 1000Base-T.
AppleTalk	General term of protocols to perform the network functions developed by Apple.
bit	Abbreviation of Binary Digit. Minimum unit of information (volume of data) handled with a computer, printer, etc. Data is denoted by 0 or 1.
Bit map font	Font to express the form of a character by a collection of dots. Large size characters have notches.
BMP	Abbreviation of Bitmap. One of the file formats to save image data (*extension; .bmp). Generally used on Windows. No. of colors from black/white (binary) to full color (16,777,216 colors) image can be designated. Basically the image is saved without being compressed.
Bonjour	Macintosh network technology for automatically detecting devices connected to the network and for specifying settings. Previously called "Rendezvous", the name was changed to "Bonjour" starting with Mac OS X v10.4.
BOOTP	Abbreviation of BOOTstrap Protocol. A protocol for a client machine on the TCP/IP network to automatically read the setting for the network from a server. Currently, however, DHCP which was partially improved on the basis of BOOTP is mainly used.
Client	A computer which uses services provided by servers through the network.
Contrast	Difference between bright and dark areas of image (difference between light and darkness). Image of a little difference between light and darkness is called "image of low contrast", and the image of a large difference is called "image of high contrast".
Default	Initial set value. Setting which has been selected in advance when the power button is turned ON. Or, setting which has been selected in advance when some function is turned ON.
Density	Quantity to express the depth of image.

Item	Description
DHCP	<p>Abbreviation of Dynamic Host Configuration Protocol.</p> <p>A protocol for a client machine on the TCP/IP network to automatically read the setting for the network from a server.</p> <p>Only by controlling the IP addresses for the DHCP clients collectively with the DHCP server, a network can be easily constructed avoiding duplicate addresses.</p>
DNS	<p>Abbreviation of Domain Name System.</p> <p>A system to allow to acquire an appropriate IP address from the host name in the network environment. Users can specify the name of the host instead of the IP address which is difficult to memorize and distinguish and access the other personal computer on the network.</p>
DPI (dpi)	<p>Abbreviation of Dots Per Inch. Unit of resolution used with printers, scanners, etc.</p> <p>Represents a number of dots in a collection in one inch.</p> <p>As this value increases, more detailed expression is possible.</p>
Driver	<p>Software to act intermediately between the computer and peripheral devices.</p>
EPS	<p>Abbreviation of Encapsulated PostScript. One of the file formats for illustration (extension; .eps). Data for both low and high resolution is contained. Data for low resolution can be edited on the screen at a high speed. At the time of printing, output of the highest performance of the printer can be obtained with the data for high resolution.</p>
Ethernet	<p>Standard for the LAN transmission line.</p>
Extension	<p>A string attached to a file name to distinguish the file saving method.</p> <p>Denoted following a period like “.bmp”, “.hog”, etc.</p>
Frame type	<p>A type of communication form used in the NetWare environment.</p> <p>Communication can be performed only between the same type of frames.</p>
FTP	<p>Abbreviation of File Transfer Protocol. A protocol used to transfer files on the TCP/IP network such as Internet, Intranet, etc.</p>
Gamma	<p>Value representing relative relation between input signal and actual output. Used for displays, scanners, printers and other color peripheral devices.</p>
Gateway	<p>Hardware or software serving as a point connecting networks. Not only connecting, it converts the format, address, protocol, etc. of the data according to the network to be connected.</p>
Gradation	<p>Light and shade levels of image.</p> <p>Larger numbers can reproduce changes of density more smoothly.</p>

Item	Description
Gray scale	Monochromatic image expression method making use of the gradation information from black to white.
GSS-SPNEGO/Simple/Digest MD5	Authentication forms used at the log on to an LDAP server. Authentication forms of LDAP servers vary depending on servers to be used and server setup so that the GSS-SPNEGO, Simple, or Direct MD5 authentication forms is appropriately used.
Half tone	Method to express the gradation of each part of the image by the size of the black or white point.
Hard disk	Mass storage device to save data. The data is maintained even if the power is turned OFF.
Host name	Name of a device on the network.
HTTP	Abbreviation of HyperText Transfer Protocol. A protocol used to transmit or receive data between a web server and client (web browser, etc.). Files of image, voice, animation, etc. correlated with the document can be exchanged including the expression form and other information.
Install	To incorporate the hardware, OS, application, printer driver, etc. to a computer system.
IP address	A code (address) to identify individual network devices on the Internet. Comprises 4 sets of figures of 3 digits at the maximum such as 192.168.1.10. An IP address is allocated to all computers and other devices connected to the Internet.
IPP	Abbreviation of Internet Printing Protocol. A protocol to control the transmission and reception of printing data or printing devices through the Internet or other TCP/IP networks. Data can be transmitted to a remote printer through the Internet and printed there.
IPX/SPX	Abbreviation of Internetwork Packet eXchange/Sequenced Packet eXchange. A protocol developed by Novell to be generally used in the NetWare environment.
LAN	Abbreviation of Local Area Network. A network connecting computers on the same floor, in the same building, in the buildings nearby, etc.
Local printer	A printer connected to the parallel/USB port of a computer.
LPR/LPD	Abbreviation of Line Printer Request/Line Printer Daemon. A type of printing through a network of the Windows-NT system or UNIX system. Printing data from Windows or UNIX can be transmitted to a printer on a network using TCP/IP.

Item	Description
MAC Address	Abbreviation of Media Access Control Address. An ID number peculiar to each Ethernet card based on which data is transmitted or received between cards. Expressed by 48-bit figures; former 24 bits represent a number peculiar to each maker controlled and allocated by IEEE and the latter 24 bits is a number allocated uniformly to the cards by the maker.
Margin	Blank on the top, bottom, right or left side of prints.
Memory	Unit to save data temporarily. Data in some memory is erased when the power is turned OFF and not erased in others.
NDPS	Abbreviation of Novell Distributed Print Services. Provides a high performance print solution in the NDS environment. By using NDPS as a print server, complicated control environment related with the use of the printer such as output from a desired printer, automatic download of a new driver when introducing it, etc. can be simplified and automated. In addition, affairs related with the networks and printers can be integrally controlled.
NetWare	Network OS developed by Novell. Uses NetWare IPX/SPX as the communication protocol.
Number of lines	A number of density of dots forming image.
OS	Abbreviation of Operating System. Basic software to control the computer system. Windows, MacOS, and Unix are examples.
Outline font	Font describing characters by straight or curved profile lines. Large characters can be indicated on the screen and printed without notches.
Parallel interface	Data transfer method to transmit or receive multiple signals at the same time. Indicates IEEE1284 for connecting the printer in many cases.
PDF	Abbreviation of Portable Document Format. One of electronic documents (extension; .pdf) in the format based on PostScript which can be accessed using Adobe Acrobat Reader, software free of charge.
PDL	Abbreviation of Page Description Language. Language which can specify the printing image in the unit of page to the printer when printing with a page printer.
Peer to peer	A form of network where devices connected can transmit data to each other without using a server for specific use.
Pixel	Minimum unit constituting images.
Plug and play	A mechanism that, when a peripheral device is connected to PC, an appropriate drive is automatically searched and activated.

Item	Description
Port number	Number to distinguish each communication port of multiple processes working in the computers on the network. A same port cannot be used for multiple processes.
PostScript	Representative page description language generally used for printing requiring specifically high quality, developed by US Adobe.
PPD	Abbreviation of PostScript Printer Description. A file describing information peculiar to the model of the PostScript printer such as resolution, usable paper sizes, etc.
PPI	Abbreviation of Pixels Per Inch. Unit of resolution of mainly monitors, scanners, etc. Represents the number of pixels per inch.
ppm	Abbreviation of Pages Per Minute. Unit to indicate the number of sheets which can be printed in one minute.
Preview	A function to display the processed image before printing or scanning.
Print queue	Software system to memorize printing job generated in the spooler.
Print job	Request for printing transmitted from PC to a printing device.
Printer buffer	Memory area used temporarily to process data of printing job.
Printer driver	Software acting as an intermediate between the computer and printer.
Profile	A color attribute file. Color input/output devices use the profile to reproduce colors. A file for specific use in which correlation of input and output of each primary color is contained.
Property	Attribute information. When using a printer driver, various functions can be set up from the property. Attribute information of a file can be checked with the property of the file.
Protocol	Rules by which a computer communicates with other computer or peripheral device.
Queue name	Logical printer name required for LPD/LPR printing.
Queue Name	Name given to each device to permit printing in the network printing.
Rendezvous	A technique to detect devices supporting Rendezvous on the IP network mutually. Apple employed it newly from MacOS 10.2.
Resolution	Degree how correctly the details of images or prints can be reproduced.

Item	Description
RGB	Abbreviation of Red, Green, and Blue. Primary colors used for color expression of monitor, etc. All colors are produced by changing the brightness ratio of the RGB colors.
Scan	In the scanner reading operation, image is read by moving the image sensors forming in line. Direction to move the image sensors is called the main scanning direction and the direction in which the image sensors form in line is called the vertical scanning direction.
Screen font	Font to indicate characters or symbols on CRT and other monitors.
Shared printer	A printer connected to a server on the network and set to allow to be used from multiple computers.
Single page TIFF	TIFF file of one page only.
SMTP	Abbreviation of Simple Mail Transfer Protocol. A protocol to transmit or transfer the electronic mails.
SNMP	Abbreviation of Simple Network Management Protocol. A control protocol using TCP/IP in the network environment.
Spool	Abbreviation of Simultaneous Peripheral Operation On-Line. In the printer output, data is not directly transmitted to the printer but deposited temporarily at another place and transmitted collectively later to the printer.
Subnet mask	Values to divide the TCP/IP network into some small networks (subnets). Used to identify how many high-order bits of an IP address are the network address.
TCP/IP	Abbreviation of Transmission Control Protocol/Internet Protocol. Substantially the standard protocol used for the Internet. Uses IP address to identify each network device.
TIFF	Abbreviation of Tagged Image File Format. One of the file formats to save image data (extension; .tif). Various types of image information can be saved in one image data with the "tag" representing the data type.
Trimming	Cutting off unnecessary portions of the image and change the rectangular or size.
TrueType	A type of outline font. Developed by Apple and Microsoft and employed for Macintosh and Windows as the standard outline font. Can be used for both displays and prints.
TWAIN	Standard for the interface between the image input devices such a scanner or digital camera and applications such as graphic software. To use devices supporting TWAIN, a TWAIN driver is required.

Item	Description
Uninstall	To delete installed software.
USB	Abbreviation of Universal Serial Bus. General-use interface standard for connecting a computer and a mouse, printer, etc.
Web browser	Software to access web pages. Internet Explorer, Netscape Navigator, etc. are examples.

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