



KONICA MINOLTA

The essentials of imaging



bizhub 751/601

User's Guide
Print Operations IC-208

Table of contents

1 Introduction

1.1	About this manual	1-3
	Contents	1-3
	Product notation.....	1-3
1.1.1	Explanation of manual conventions	1-4
	Safety advices	1-4
	Sequence of action	1-4
	Tips.....	1-4
	Special text markings.....	1-4
1.2	User manuals	1-6
1.2.1	Printed manual	1-6
	Quick Guide – Copy/Print/Fax/Scan/Box Operations.....	1-6
1.2.2	User manual DVD manuals	1-6
	User manual – Copy Operations	1-6
	User manual – Enlarge Display Operations.....	1-6
	User manual – Print Operations (IC-208)	1-6
	User manual – Box Operations	1-6
	User manual – Network Scan/Fax/Network Fax Operations	1-6
	User manual – Fax Driver Operations	1-6
	User manual – Network Administrator	1-6
	User manual – Advanced Function Operations.....	1-7

2 Overview of printer functions

2.1	Printer controller	2-3
2.1.1	Role of the printer controller.....	2-3
2.1.2	Printing flow.....	2-4
2.1.3	Control panel.....	2-5
2.2	Operating environment.....	2-7
2.2.1	Compatible computers and operating systems	2-7
	Windows.....	2-7
	Mac	2-7
2.2.2	Compatible interfaces	2-8
	Ethernet interface	2-8
	USB interface	2-8
2.3	Setting up the system	2-9
2.3.1	Network connection	2-9
2.3.2	Local connection	2-10

3 Precautions for installation

3.1	Introduction.....	3-3
3.2	Printer drivers applicable to operating systems	3-4
3.3	Connection methods selectable in each operating system	3-6
3.3.1	Windows 2000/XP/Server 2003	3-6
3.3.2	Windows Vista/7/Server 2008	3-7
3.3.3	Windows NT 4.0	3-8
3.3.4	Mac OS 9.2	3-8
3.3.5	Mac OS 10.2, 10.3, 10.4, 10.5 or 10.6	3-8
3.3.6	NetWare	3-9

4 Manual installation using the Add Printer wizard

4.1	Windows XP/Server 2003	4-3
4.1.1	Network connection (LPR/Port9100)	4-3
	TCP/IP setting for this machine	4-3
	RAW port number setting for this machine	4-3
	LPD setting for this machine	4-3
	Printer driver installation using the Add Printer Wizard	4-3
4.1.2	Network connection (SMB)	4-5
	TCP/IP setting for this machine	4-5
	SMB setting for this machine	4-5
	Printer driver installation by specifying printers using the Add Printer Wizard	4-5
4.1.3	Network connection (IPP or IPPS)	4-7
	Specifying the TCP/IP setting for this machine	4-7
	Specifying the IPP settings for this machine	4-7
	Printer driver installation using the Add Printer wizard	4-7
4.1.4	Local connection	4-9
4.2	Windows Vista/7/Server 2008	4-10
4.2.1	Network connection (LPR, Port9100, or SMB)	4-10
	Specifying the TCP/IP setting for this machine	4-10
	RAW port number setting for this machine	4-10
	LPD setting for this machine	4-10
	SMB setting for this machine	4-10
	Printer driver installation by searching printers using the Add Printer Wizard	4-11
	Printer driver installation by creating a port using the Add Printer Wizard	4-12
4.2.2	Network connection (IPP or IPPS)	4-14
	Specifying the TCP/IP setting for this machine	4-14
	Specifying the IPP settings for this machine	4-14
	Printer driver installation using the Add Printer wizard	4-14
4.2.3	Network connection (Web Service print)	4-16
	TCP/IP setting for this machine	4-16
	Web Service settings for this machine	4-16
	Printer installation from the Network window	4-16
	Printer driver installation by specifying the IP address using the Add Printer Wizard	4-17
4.2.4	Local connection	4-18
	Making the installed printer driver known to the computer	4-18
	Installing the printer driver when connecting the machine	4-19
	Updating the driver after connecting this machine	4-20
4.3	Windows 2000	4-21
4.3.1	Network connection (LPR/Port9100)	4-21
	TCP/IP setting for this machine	4-21
	RAW port number setting for this machine	4-21
	LPD setting for this machine	4-21
	Printer driver installation using the Add Printer Wizard	4-21
4.3.2	Network connection (SMB)	4-23
	TCP/IP setting for this machine	4-23
	SMB setting for this machine	4-23
	Printer driver installation using the Add Printer Wizard	4-23
4.3.3	Network connection (IPP or IPPS)	4-24
	Specifying the TCP/IP setting for this machine	4-24
	Specifying the IPP settings for this machine	4-24
	Printer driver installation using the Add Printer wizard	4-24
4.3.4	Local connection	4-26
4.4	Windows NT 4.0	4-27
4.4.1	Network connection (LPR)	4-27
	TCP/IP setting for this machine	4-27
	LPD setting for this machine	4-27
	Printer driver installation using the Add Printer Wizard	4-27

5 Installation on Macintosh computers

5.1	Mac OS X 10.2, 10.3, 10.4, 10.5 or 10.6	5-3
5.1.1	Installing the printer driver.....	5-3
5.1.2	Selecting and connecting the printer (OS 10.4/10.5/10.6).....	5-4
	Specifying the Bonjour settings	5-4
	Specifying the AppleTalk settings.....	5-5
	Specifying the LPR settings	5-6
	Specifying the IPP settings	5-7
5.1.3	Selecting and connecting the printer (OS 10.2 and 10.3)	5-9
	Specifying the Rendezvous settings	5-9
	Specifying the AppleTalk settings.....	5-9
	Specifying the LPR settings	5-10
	Specifying the IPP settings	5-11
5.2	Mac OS 9.2	5-13
5.2.1	Installing the printer driver.....	5-13
5.2.2	Selecting and connecting the printer	5-13
	Specifying the AppleTalk settings.....	5-13
	Specifying the LPR settings	5-14

6 Installation to use NetWare

6.1	NetWare	6-3
6.1.1	Network Settings.....	6-3
6.1.2	Windows Client Setting.....	6-3

7 Uninstalling the printer driver

7.1	Windows	7-3
	Manual uninstallation.....	7-3
7.2	Macintosh	7-5
7.2.1	For Mac OS X.....	7-5
7.2.2	For Mac OS 9.2	7-5

8 Print functions of the PCL/PS/XPS drivers for Windows

8.1	Printing operations	8-3
8.2	Initializing the printer driver	8-4
8.2.1	How to display the Properties screen	8-4
8.2.2	Configure tab.....	8-5
8.2.3	Settings tab	8-6
8.2.4	Registration of the default settings	8-7
8.3	Common settings	8-8
8.4	Parameter details	8-9
8.4.1	Basic tab	8-9
8.4.2	Layout tab	8-11
8.4.3	Finish tab.....	8-13
8.4.4	Cover Mode tab	8-14
8.4.5	Stamp/Composition tab	8-16
	Editing watermark	8-17
	Editing copy protect.....	8-18
	Editing date/time and page number.....	8-20
8.4.6	Quality tab	8-21
8.4.7	Other tab	8-22

9 Print function of Mac OS X

9.1	Printing operations	9-3
9.2	Initializing the printer driver	9-4
9.2.1	Options	9-4
9.2.2	Registration of the default settings.....	9-5
9.3	Common settings	9-6
9.4	How to add a custom size	9-7
9.5	Parameter details	9-8
9.5.1	Page Attributes	9-8
9.5.2	Copies & Pages	9-9
9.5.3	Output Method	9-10
	Checking the Output Method setting details.....	9-11
9.5.4	Layout	9-13
9.5.5	Layout/Finish	9-13
	Checking the Layout/Finish setting details.....	9-16
9.5.6	Paper Tray/Output Tray	9-17
9.5.7	Cover Mode/Transparency Interleave	9-18
9.5.8	Per Page Setting.....	9-20
9.5.9	Stamp/Composition.....	9-21
	Editing copy protect	9-22
	Editing date/time	9-24
	Editing page number	9-25
	Editing header/footer	9-26
9.5.10	Quality.....	9-27

10 Print function of Mac OS 9.2

10.1	Printing operations	10-3
10.2	Initializing the printer driver	10-4
10.2.1	Options	10-4
10.2.2	Registration of the default settings.....	10-5
10.3	Parameter details	10-6
10.3.1	Page Attributes	10-6
10.3.2	Setting Custom Page Size.....	10-7
10.3.3	General	10-8
10.3.4	Layout (Pages per sheet)	10-8
10.3.5	Printer specific options (Finishing Options 1 to 3).....	10-9

11 Function detail description

11.1	Proof print.....	11-3
11.1.1	Setting up the printer driver.....	11-3
	For Windows.....	11-3
	For Mac OS X	11-4
11.1.2	Recalling a job from the control panel.....	11-5
11.2	Secure print.....	11-7
11.2.1	Setting up the printer driver.....	11-7
	For Windows.....	11-7
	For Mac OS X	11-9
11.2.2	Recalling a job from the control panel.....	11-10
	When "Confidential Document Access Method" is set to "Mode 1".....	11-10
	When "Confidential Document Access Method" is set to "Mode 2".....	11-13
11.3	Save in User Box.....	11-16
11.3.1	Setting up the printer driver.....	11-16
	For Windows.....	11-16
	For Mac OS X	11-18
11.3.2	Recalling a job from the control panel.....	11-19

11.4	Printing on a machine with the user authentication set up.....	11-22
11.4.1	Setting up the printer driver	11-22
	For Windows	11-22
	For Mac OS X.....	11-24
11.5	Printing with the machine enabling the Account Track function	11-26
11.5.1	Setting up the printer driver	11-26
	For Windows	11-26
	For Mac OS X.....	11-28
11.6	ID & Print	11-29
11.6.1	Setting up the printer driver	11-29
	For Windows	11-29
	For Mac OS X.....	11-31
11.6.2	Recalling a job from the control panel	11-33
	Printing a job after inputting user information	11-33
	Printing a job selected from "ID & Print User Box"	11-34
	Logging in via Authentication Unit	11-36
11.7	Specifying a user-defined encryption passphrase.....	11-37
11.7.1	Settings of this machine.....	11-37
11.7.2	Setting up the printer driver	11-39
	For Windows	11-39
	For Mac OS X.....	11-40
11.8	Saving the driver settings.....	11-42
11.8.1	Setting up the printer driver	11-42
	For Windows	11-42
11.8.2	Recalling the settings	11-43
11.8.3	Editing the settings.....	11-44
11.8.4	Importing and exporting the driver settings	11-45

12 Settings on the control panel

12.1	Basic operations for user settings.....	12-3
12.1.1	Displaying the User Settings screen	12-3
12.2	User settings.....	12-5
12.2.1	PDL setting.....	12-5
12.2.2	Number of Copies	12-7
12.2.3	Original Direction.....	12-8
12.2.4	Spool Print Jobs in HDD before RIP	12-9
12.2.5	A4/A3 <=> LTR/LGR Auto Switch	12-10
12.2.6	Banner Sheet Setting	12-11
12.2.7	Binding Direction Adjustment.....	12-12
12.2.8	Skip Blank Pages	12-13
12.2.9	Paper Tray	12-14
12.2.10	Paper Size	12-16
12.2.11	2-Sided Print	12-17
12.2.12	Binding Position	12-18
12.2.13	Staples	12-19
12.2.14	Punch	12-20
12.2.15	Banner Paper Tray	12-21
12.2.16	Font Settings (PCL)	12-22
12.2.17	Symbol Set (PCL)	12-24
12.2.18	Font Size (PCL).....	12-25
12.2.19	Line/Page (PCL).....	12-26
12.2.20	CR/LF Mapping (PCL)	12-27
12.2.21	Print PS Errors.....	12-28
12.2.22	Verify XPS Digital Signature	12-30
12.2.23	TIFF/PDF Paper Settings.....	12-32
12.2.24	Print Reports	12-33

12.2.25	Image Shift Settings	12-35
12.2.26	Stamp Settings	12-36
	Date/Time Print Position.....	12-37
	Date/Time Text Size	12-37
	Page Number Print Position	12-38
	Page Number Text Size	12-38
	Insert Sheet Page Numbering	12-39
12.3	Basic operations for Administrator Settings.....	12-40
12.3.1	Displaying the Administrator Settings screen.....	12-40
12.4	Administrator Settings	12-42
12.4.1	Print/Fax Output Settings	12-42
12.4.2	Output Tray Settings.....	12-43
12.4.3	Delete Secure Print Documents	12-44
12.4.4	Auto Delete Secure Document	12-45
12.4.5	ID & Print Delete Time.....	12-46
12.4.6	ID & Print Delete after Print Setting	12-47
12.4.7	ID & Print Settings	12-48
12.4.8	ID & Print Operation Settings.....	12-50
12.4.9	Print without Authentication	12-52
12.4.10	I/F Timeout.....	12-53
12.4.11	Print XPS Errors	12-54
12.4.12	Authentication Setting for OpenAPI Settings	12-55
12.4.13	Print Data Capture	12-56
12.4.14	Secured Print Only.....	12-57
12.4.15	Driver Password Encryption Setting	12-58

13 PageScope Web Connection

13.1	Using PageScope Web Connection	13-3
13.1.1	Operating environment.....	13-3
13.1.2	Accessing PageScope Web Connection.....	13-3
13.1.3	Web browser cache.....	13-4
	With Internet Explorer	13-4
	With Netscape Navigator.....	13-4
	With Mozilla Firefox	13-4
13.1.4	Structure of pages.....	13-5
13.2	Logging on and logging off.....	13-7
13.2.1	Login and logout operations.....	13-7
	When user authentication and account track settings are not specified	13-7
	When user authentication and account track settings are specified.....	13-8
13.2.2	Logout.....	13-9
13.2.3	Login	13-9
	Options that can be selected when logged on to PageScope Web Connection	13-9
	Logging on as a public user	13-10
	Logging on as a registered user	13-10
	Logging on to Administrator mode.....	13-11
	Logging on as a user box administrator.....	13-12
13.3	Overview of User mode.....	13-13
13.3.1	Information.....	13-13
13.3.2	Job	13-14
13.3.3	Box	13-15
13.3.4	Direct Print.....	13-16
13.3.5	Store Address.....	13-17
13.4	Overview of Administrator mode	13-18
13.4.1	Maintenance	13-18
13.4.2	Security.....	13-20
13.4.3	Box	13-21

13.4.4	Print Setting.....	13-22
13.4.5	Store Address.....	13-23
13.4.6	Network.....	13-24
14	Troubleshooting	
14.1	Cannot print	14-3
14.2	Unable to specify desired settings or unable to print as specified	14-5
14.2.1	Printer driver settings have no effect	14-5
14.2.2	Other	14-6
14.2.3	Error message	14-6
15	Appendix	
15.1	Product specifications	15-3
15.2	Configuration page.....	15-6
15.3	Font list.....	15-7
15.3.1	PCL Font List.....	15-7
15.3.2	PS Font List.....	15-8
15.3.3	Demo page.....	15-9
15.4	PPD driver (for Linux and applications).....	15-10
15.4.1	PPD driver types	15-10
15.4.2	About the PPD driver for Linux.....	15-10
15.4.3	About the PPD driver for applications.....	15-11
15.5	Glossary	15-12
16	Index	





Introduction

1 Introduction

Thank you for purchasing this machine.

The bizhub 751/601 is equipped with an integration image controller (IC-208) that allows you to print directly from Windows-compatible computers or Mac computers.

This user manual describes the printing functions of the image controller, operating instructions, and precautions for proper operation. In order to allow functionality of this product fully and to use it effectively, please read this user manual as necessary.

In order to operate the product safely and properly, be sure to read the accompanying Quick Guide – Copy/Print/Fax/Scan/Box Operations.

For descriptions on trademarks and copyrights, refer to Quick Guide – Copy/Print/Fax/Scan/Box Operations.

Illustrations shown in the user manual may differ from actual machine.

1.1 About this manual

This manual is the user manual describing printing features that can be implemented with the Konica Minolta image controller. For copy, scan, box, and fax functions, refer to the respective user manuals.

This manual is intended for persons with basic knowledge of computers and this machine. For details on the Windows or Mac operating systems, or software applications, refer to the corresponding manuals.

Contents

This manual consists of the following chapters:

Chapter "1 Introduction"

Chapter "2 Overview of printer functions"

Chapter "3 Precautions for installation"

Chapter "4 Manual installation using the Add Printer wizard"

Chapter "5 Installation on Macintosh computers"

Chapter "6 Installation to use NetWare"

Chapter "7 Uninstalling the printer driver"

Chapter "8 Print functions of the PCL/PS/XPS drivers for Windows"

Chapter "9 Print function of Mac OS X"

Chapter "10 Print function of Mac OS 9.2"

Chapter "11 Function detail description"

Chapter "12 Settings on the control panel"

Chapter "13 PageScope Web Connection"

Chapter "14 Troubleshooting"

Chapter "15 Appendix"

Chapter "16 Index"

Product notation

The Name and Product name	Notation
bizhub 751/601, printer main body, and this machine	Machine or printer
Built-in network controller	Network controller
Printing system incorporating an image controller (printer controller) and this machine	Printing system
Microsoft Windows	Windows

1.1.1 Explanation of manual conventions

The marks and text formats used in this manual are described below.

Safety advices



DANGER

Failure to observe instructions highlighted in this manner may result in fatal or critical injuries in fact of electrical power.

→ Observe all dangers in order to prevent injuries.



WARNING

Failure to observe instructions highlighted in this manner may result in serious injuries or property damage.

→ Observe all warnings in order to prevent injuries and to ensure safe use of the machine.



CAUTION

Failure to observe instructions highlighted in this manner may result in slight injuries or property damage.

→ Observe all cautions in order to prevent injuries and to ensure safe use of the machine.

Sequence of action

- 1** The number 1 as formatted here indicates the first step of a sequence of actions.
- 2** Subsequent numbers as formatted here indicate subsequent steps of a sequence of actions.
- ?** Text formatted in this style provides additional assistance.
 - Text formatted in this style describes the action that will ensure the desired results are achieved.

An illustration inserted here shows what operations must be performed.

Tips



...

Note

Text highlighted in this manner contains useful information and tips to ensure safe use of the machine.



...

Reminder

Text highlighted in this manner contains information that should be reminded.



Detail

Text highlighted in this manner contains references for more detailed information.

Special text markings

[Stop] key

The names of keys on the control panel are written as shown above.

MACHINE SETTING

Display texts are written as shown above.

**Note**

The machine illustrations shown in this manual can vary and depend on the machine configuration.

1.2 User manuals

This machine is provided with printed manuals and PDF manuals on the User manual DVD.

1.2.1 Printed manual

Quick Guide – Copy/Print/Fax/Scan/Box Operations

This user manual contains operating procedures and descriptions of the most frequently used functions, allowing the machine to immediately be used.

In addition, this manual contains notes and precautions that should be followed for safe use of the machine as well as descriptions on trademarks and copyrights.

Be sure to read this manual before using the machine.

1.2.2 User manual DVD manuals

The user manual DVD is included with this machine. In the initial screen, select the user manual to be viewed, and then check the details for the various functions.

User manual – Copy Operations

This user manual contains descriptions of Copy mode operations and machine maintenance.

Refer to this user manual for details on paper and originals, copy procedures using convenient Application functions, replacing consumables and troubleshooting operations such as clearing paper misfeeds.

User manual – Enlarge Display Operations

This user manual contains details on operating procedures in Enlarge Display mode.

Refer to this manual for details on using copy, scanner, G3 fax and network fax operations in Enlarge Display mode.

User manual – Print Operations (IC-208)

This user manual contains details on the printing functions that can be specified with the standard built-in image controller.

Refer to this user manual for details on operating procedures for using the printer functions.

User manual – Box Operations

This user manual contains operating procedures for using the user boxes on the optional hard disk.

Refer to this user manual for details on saving data in user boxes, retrieving data from user boxes and transferring data.

User manual – Network Scan/Fax/Network Fax Operations

This user manual contains details on the network scan, G3 fax, and network fax operations.

Refer to this manual for details on using network scan function by E-Mail or FTP, G3 fax, Internet fax and IP address fax operations.

In order to use the fax functions, the optional fax kit must be purchased separately.

User manual – Fax Driver Operations

This user manual contains details of the fax driver functions that can be used to send a fax directly from a computer.

Refer to this user manual for operating procedures on using the PC-FAX functions.

In order to use the fax functions, the optional fax kit must be purchased separately.

User manual – Network Administrator

This user manual contains descriptions on setting methods for each function utilizing network connection, mainly using the PageScope Web Connection.

Refer to this user manual for details on using network functions.

User manual – Advanced Function Operations

The descriptions and the directions for use are given of each of the functions that can be used effectively by registering the license kit optionally provided and each of the functions that can be used by linking up with the application.

In order to make an effective use of each function, refer to this user manual.



Overview of printer functions

2 Overview of printer functions

2.1 Printer controller

The printer controller is a device for performing printing functions and network printing functions with this machine.

2.1.1 Role of the printer controller

With the optional printer controller (printer controller), this machine works as a printing system, allowing printing from applications on the computer connected to the printing system. When using this machine as a network printer, you can print from applications on the computer.

The printer controller provides the following functions:

- Printing data being sent from a printer driver on a computer
- Support of network protocols including TCP/IP (IPv4/IPv6), IPX/SPX, and AppleTalk
- Direct printing over a network using SMB (Windows), LPR, and IPP printing
- Access to settings for this machine and the printer controller from a client computer over the network (using a Web browser)
- Control of the number of pages printed (the User Authentication and Account Track functions)
- Fax operations using a computer (PC-fax transmission)



Note

In order to use the fax functions, the optional fax kit is required.



Detail

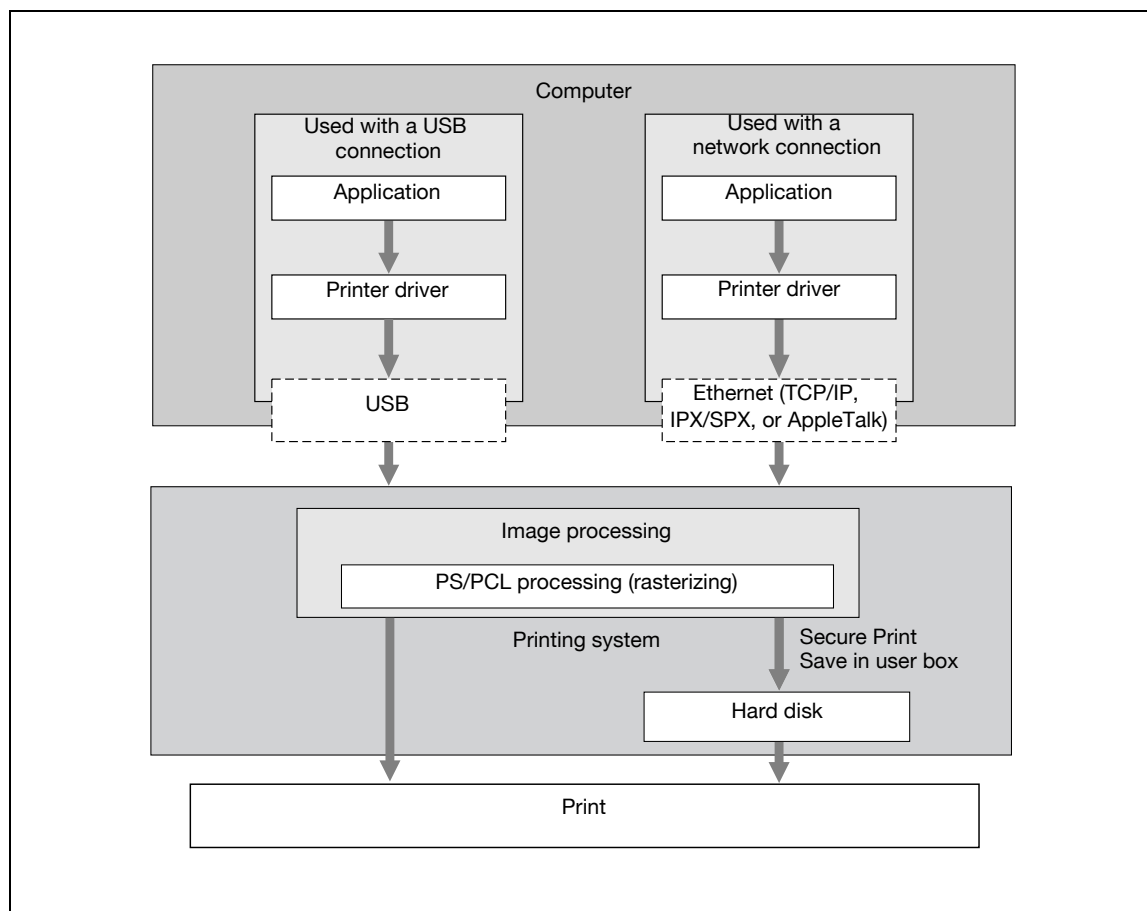
For details on the PC-fax transmission, refer to the User manual – Fax Driver Operations.

2.1.2 Printing flow

The following outlines the flow of operations for using this printing system as a printer.

The printer driver receives print commands from applications.

Data is transmitted to this machine over a USB interface when this machine is used via a USB connection, or over an Ethernet interface (TCP/IP, IPX/SPX, or AppleTalk) when this machine is used via an Ethernet connection. The data is then delivered from this machine to the printer controller, which performs image rasterization (development of output characters and images to bitmap data). Finally, this data is printed from this machine.



Note

When a connection is made with the USB port, the local interface kit is required.

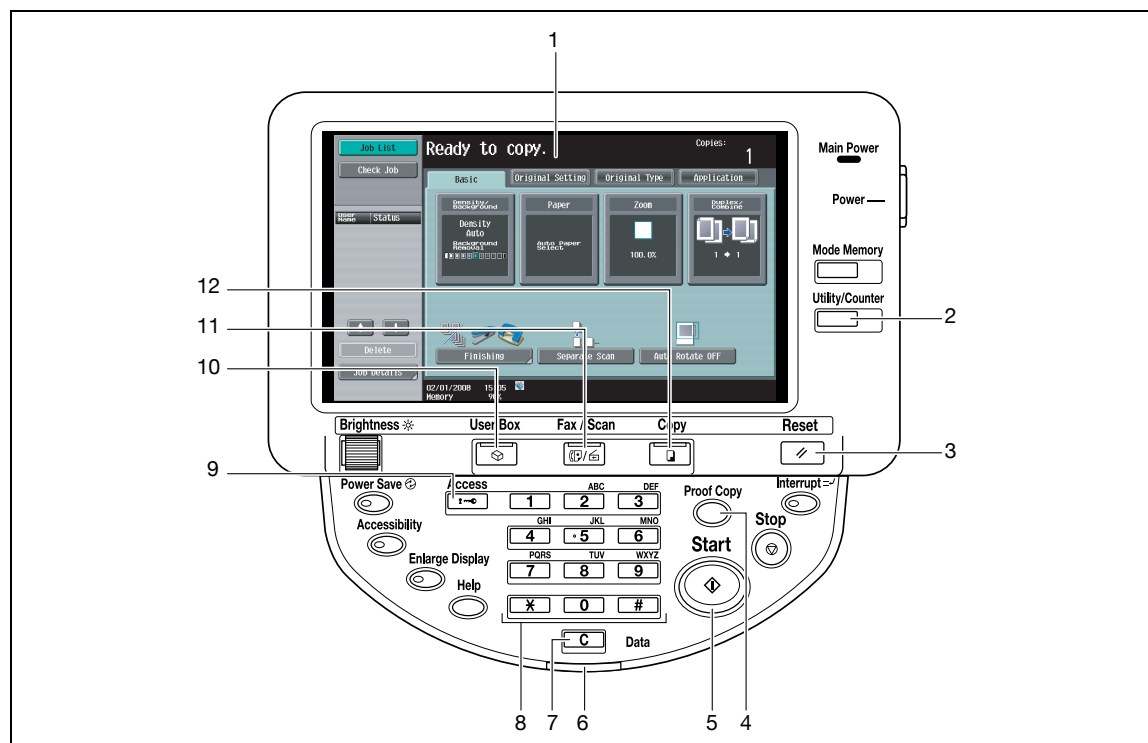
Original documents can be scanned in the copy function or network scan function while this machine is operating as a printer. To use the copy functions, press the [Copy] key on the control panel.

When a print job is received during copying, the data is stored in the memory of this machine. When the copying is completed, the print job is automatically printed.

2.1.3 Control panel

The printer driver settings are mainly specified on the computer, however, the font list can be printed and the network controller settings and default print settings can be specified using the control panel of this machine.

The following describes major keys used for the printer function.



No.	Name	Description
1	Touch panel	Displays various screens and messages. Specify various settings by directly touching the touch panel.
2	[Utility/Counter] key	Press to display the Utility screen and the Meter Count screen.
3	[Reset] key	Press to reset all settings (except programmed settings) entered in the control panel or touch panel.
4	[Proof Copy] key	Press to perform proof printing when a proof print job is stored.
5	[Start] key	Press to start the operation of the selected function. When this machine is ready to start the operation, the indicator on the [Start] key lights up in blue. If the indicator on the [Start] key lights up in orange, the operation cannot be started.
6	Data indicator	Flashes in blue while a print job or fax is being received. Lights up in blue when a print job or fax is queued to be printed or while it is being printed.
7	[C] (clear) key	Press to erase a value entered using the keypad or characters entered the keyboard on the screen.
8	Keypad	Use to enter numerals such as the administrator password or other settings.
9	[Access] key	In order to use this machine when user authentication or account track settings have been applied, enter the user name and password (for user authentication) or the account name and password (for account track), and then press this key.
10	[User Box] key	Press to enter User Box mode. While the machine is in User Box mode, the indicator on the [User Box] key lights up in green. For details, refer to the User manual – Box Operations.
11	[Fax/Scan] key	Press to enter Fax/Scan mode. While the machine is in Fax/Scan mode, the indicator on the [Fax/Scan] key lights up in green. For details, refer to the User manual – Network Scan/Fax/Network Fax Operations.
12	[Copy] key	Press to enter Copy mode. (As a default, the machine is in Copy mode.) While the machine is in Copy mode, the indicator on the [Copy] key lights up in green. For details, refer to the User manual – Copy Operations.

**Note**

For details on proof printing, refer to "Proof print" on page 11-3.

You can use this machine as a printer in any of User Box, Fax/Scan, and Copy modes.

Change the default print settings in the Utility mode.

2.2 Operating environment

The following descriptions the system requirements for using this printing system and the interfaces used for connection.

2.2.1 Compatible computers and operating systems

Check that the computer being connected meets the following conditions.

Windows

Item	Operating environment
Operating System	32bit editions: Windows NT4.0 (Service Pack 6a or later) Windows 2000 Professional/Server (Service Pack 3 or later) Windows XP Home/Professional (Service Pack 2 or later) Windows Server 2003 Standard Windows Vista (All versions) Windows Server 2008 (All versions) Windows 7 (All versions)
	64bit editions: 64bit editions: Windows XP Professional (Service Pack 2 or later) Windows Server 2003 Windows Vista (All versions) Windows Server 2008 (All versions) Windows Server 2008 R2 (All versions) Windows 7 (All versions)
Drive	DVD
Web Browser (when using PageScope Web Connection)	Microsoft Internet Explorer Ver. 6.0 or later recommended (JavaScript and Cookies enabled) Microsoft XML parser MSXML3.X must be installed when Internet Explorer Ver. 5.5 is being used. Netscape Navigator Ver. 7.02 or later (JavaScript and Cookies enabled) Mozilla Firefox Ver. 1.0 or later (JavaScript and Cookies enabled) Adobe® Flash® (plug-in ver. 7.0 or later required if Flash is selected as the display format) (To use in the IPv6 environment, Flash Player plug-in Ver. 9.0.115 or later is required.)

Mac

Item	Operating environment
Operating System	Mac OS 9.2, Mac OS X 10.2, Mac OS X 10.3, Mac OS X 10.4, Mac OS X 10.5 or Mac OS X 10.6
Drive	DVD
Web Browser (when using PageScope Web Connection)	Netscape Navigator Ver. 7.02 or later (JavaScript and Cookies enabled) Mozilla Firefox Ver. 1.0 or later (JavaScript and Cookies enabled) Adobe® Flash® (plug-in ver. 7.0 or later required if Flash is selected as the display format) (To use in the IPv6 environment, Flash Player plug-in Ver. 9.0.115 or later is required.)

2.2.2 Compatible interfaces

The following interfaces can be used to connect this printing system to a computer.

Ethernet interface

Select to use this printing system via a network connection.

Supports 10Base-T, 100Base-TX, and 1000Base-T standards. In addition, the Ethernet interface supports the TCP/IP (LDP/LPR, IPP, SMB), Web Service, IPX/SPX (NetWare), and AppleTalk (EtherTalk) protocols.

USB interface

Select to use this printing system via a USB connection.

The USB interface can be connected to a computer running Windows. A USB cable is required for connection. Use a type A (4 pin, male) or type B (4 pin, male) USB cable. A USB cable measuring three meters or less is recommended.



Note

When a connection is made with the USB port, the local interface kit is required.

2.3 Setting up the system

In order to use this printing system, it must first be set up.

The setup procedure refers to a series of steps for connecting this machine to a computer and installing the printer driver on the computer.

The setup procedure consists of the following steps.



Note

It is possible to use the point and print install. However, please note that the server does not support any OS other than the Windows NT when the client employs the Windows NT.

2.3.1 Network connection

- 1 Connect this machine to a computer.
- 2 Make sure the computer is connected to the network.
- 3 Specify the IP address of the machine to connect it to the network.
- 4 Depending on the connection method and protocol, change the network settings of this machine.
 - LPR: Enable LPD print in the LPD Setting screen.
 - Port9100: Enable the RAW port number (9100 at default), in the TCP/IP Setting screen.
 - SMB: Specify "Print Setting" in the SMB Setting screen.
 - IPP/IPPS: Enable IPP print in the IPP Setting screen. For IPPS print, install the certificate in advance.
 - Web Service Print: In Web Service Settings screen, enable the print function.
 - Bonjour: Enable Bonjour in the Bonjour Setting screen.
 - AppleTalk: Enable AppleTalk in the AppleTalk Setting screen.
- 5 Install the printer driver.
 - Specify the network port of the printer driver according to the connection method and protocol.
- 6 Install the screen fonts.
 - The Driver DVD contains the Latin TrueType fonts as screen fonts. The ScreenFont or Screen Fonts folder in the DVD contains the screen fonts.
 - Install the screen fonts after adding the operating system standard fonts. For details, refer to Help of the operating system.
 - Mac fonts are compressed. Decompress them before installing.

2.3.2 Local connection



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Note

When a connection is made with the USB port, the local interface kit is required.

- 1** Connect this machine to a computer.
- 2** Install the printer driver.
- 3** Install the screen fonts.
 - The Driver DVD contains the Latin TrueType fonts as screen fonts. The ScreenFont or Screen Fonts folder in the DVD contains the screen fonts.
 - Install the screen fonts after adding the operating system standard fonts. For details, refer to Help of the operating system.



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Reminder

After installing the printer driver, perform test print to make sure that the connections are made properly.

**Detail**

For details on applicable interfaces, refer to "Compatible interfaces" on page 2-8.

For details on network settings, refer to the User manual – Network Administrator.

The procedure for installing the printer driver differs depending on the connection method, operating system of the computer, and printer driver. For details, refer to "Precautions for installation" on page 3-3.



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Note

To update an existing printer driver, delete the existing printer driver first. For details, refer to "Uninstalling the printer driver" on page 7-3.

If necessary, specify the interface timeout settings in the Utility mode on the control panel. For details, refer to "I/F Timeout" on page 12-53.



Precautions for installation

3 Precautions for installation

3.1 Introduction

Keep in mind the following information before install the printer driver.

The procedure for installing the printer driver differs depending on how this machine is connected to the computer, what operating system is installed on the computer, and what printer driver is to be installed.

To determine the printer driver to be installed and connection method, check the operating system on the computer and connection environment.

Select the installation method according to the printer driver and connection method.

3.2 Printer drivers applicable to operating systems

In order to use this printing system, the printer driver must be installed.

The following lists the printer drivers included on the DVD and the supported computer operating systems. Select the required printer driver.

Printer driver	Page description language	Supported operating systems
Konica Minolta PCL Driver (PCL driver)	PCL XL (PCL 6)	32bit editions: Windows NT Workstation 4.0/Server 4.0 (Service Pack 6 or later) Windows 2000 Professional/Server (Service Pack 3 or later) Windows XP Home/Professional (Service Pack 2 or later) Windows Server 2003 Standard Windows Vista (All versions) Windows Server 2008 (All versions) Windows 7 (All versions)
		64bit editions: Windows XP Professional (Service Pack 2 or later) Windows Server 2003 Windows Vista (All versions) Windows Server 2008 (All versions) Windows Server 2008 R2 (All versions) Windows 7 (All versions)
Konica Minolta PostScript Driver (PS driver)	PostScript3 Emulation	32bit editions: Windows 2000 Professional/Server (Service Pack 3 or later) Windows XP Home/Professional (Service Pack 2 or later) Windows Server 2003 Standard Windows Vista (All versions) Windows Server 2008 (All versions) Windows 7 (All versions)
		64bit editions: Windows XP Professional (Service Pack 2 or later) Windows Server 2003 Windows Vista (All versions) Windows Server 2008 (All versions) Windows Server 2008 R2 (All versions) Windows 7 (All versions)
PostScript PPD driver (PS-PPD)		Mac OS 9.2 or later Mac OS X 10.2, Mac OS X 10.3, Mac OS X 10.4, Mac OS X 10.5, or Mac OS X 10.6
Konica Minolta XPS Driver (XPS driver)	XPS	32bit editions: Windows Vista (All versions) Windows Server 2008 (All versions) Windows 7 (All versions)
		64bit editions: Windows Vista (All versions) Windows Server 2008 (All versions) Windows Server 2008 R2 (All versions) Windows 7 (All versions)

Printer driver	Page description language	Supported operating systems
Fax driver		32bit editions: Windows NT Workstation 4.0/Server 4.0 (Service Pack 6 or later) Windows 2000 Professional/Server (Service Pack 3 or later) Windows XP Home/Professional (Service Pack 2 or later) Windows Server 2003 Standard Windows Vista (All versions) Windows Server 2008 (All versions) Windows 7 (All versions)
		64bit editions: Windows XP Professional (Service Pack 2 or later) Windows Server 2003 Windows Vista (All versions) Windows Server 2008 (All versions) Windows Server 2008 R2 (All versions) Windows 7 (All versions)

**Note**

Select the page description language according to the application used for printing.

For details on fax drivers, refer to the User manual – Fax Driver Operations.

3.3 Connection methods selectable in each operating system

The connection method for this machine differs depending on the operating system of the computer. The printer driver installation method also differs depending on the connection method.

This machine can be connected via a network or a USB interface. In network connection, the printer driver installation method differs depending on the protocol to be used.

Network connection (Ethernet)

This machine is connected as a network printer.

This printing system supports 10Base-T, 100Base-TX, and 1000Base-T standards. In addition, the Ethernet interface supports the TCP/IP (LDP/LPR, IPP, SMB), Web Service, IPX/SPX (NetWare), and AppleTalk (EtherTalk) protocols.

The applicable protocols differ depending on the operating system of the computer.

USB interface

This machine is connected as a local printer. The USB interface can be connected to a computer Windows-compatible computer.

3.3.1 Windows 2000/XP/Server 2003

Setup method	Connection method		Refer to
Connection method that can be set up with an installer	Port9100	A network connection using the PORT9100 print service. It uses a TCP/IP protocol and the RAW printing port.	Select the connection method in the course of installation. Select "Normal Printing" for Port 9100 or USB connection, "Internet Printing" for IPP connection, or "Secure Printing" for IPPS connection.
	IPP/IPPS	A network connection using the IPP (Internet Printing Protocol) print service. Printing via the Internet is possible with the HTTP (HyperText Transfer Protocol) of the TCP/IP protocol. IPPS is an IPP for SSL encrypted communication.	
	USB	A connection using a USB port.	
Connection method that can be set up with the Add Printer wizard	LPR	A network connection using the LPR (Line Printer Remote) print service. It uses a TCP/IP protocol and the LPR printing port.	"Manual installation using the Add Printer wizard" on page 4-3
	Port9100	A network connection using the PORT9100 print service. It uses a TCP/IP protocol and the RAW printing port.	
	SMB	A network connection using SMB (Server Message Block) for sharing files or printers in Windows. It supports the TCP/IP protocol.	
	IPP/IPPS	A network connection using the IPP (Internet Printing Protocol) print service. Printing via the Internet is possible with the HTTP (HyperText Transfer Protocol) of the TCP/IP protocol. IPPS is an IPP for SSL encrypted communication.	
	USB	A connection using a USB port.	
Connection method that can be set up with plug-and-play	USB	A connection using a USB port.	For Windows XP/Server 2003: "Local connection" on page 4-9 For Windows 2000: "Local connection" on page 4-26



Note

Before using this machine in a network environment, the network settings must be specified for this machine. For details, refer to the User manual – Network Administrator.

To install the printer driver under Windows 2000, XP, or Server 2003, log on using a user name that is authorized by the administrator.

This manual describes the setup method of USB connection only using the Plug and Play.

When a connection is made with the USB port, the local interface kit is required.

3.3.2 Windows Vista/7/Server 2008

Setup method	Connection method		Refer to
Connection method that can be set up with an installer	Port9100	A network connection using the PORT9100 print service. It uses a TCP/IP protocol and the RAW printing port.	Select the connection method in the course of installation. Select "Normal Printing" for Port 9100 or USB connection, or "Internet Printing" for IPP connection.
	IPP	A network connection using the IPP (Internet Printing Protocol) print service. Printing via the Internet is possible with the HTTP (HyperText Transfer Protocol) of the TCP/IP protocol.	
	USB	A connection using a USB port.	
Connection method that can be set up with the Add Printer Wizard	LPR	A network connection using the LPR (Line Printer Remote) print service. It uses a TCP/IP protocol and the LPR printing port.	"Manual installation using the Add Printer wizard" on page 4-3
	Port9100	A network connection using the PORT9100 print service. It uses a TCP/IP protocol and the RAW printing port.	
	SMB	A network connection using SMB (Server Message Block) for sharing files or printers in Windows. It supports the TCP/IP protocol.	
	IPP/IPPS	A network connection using the IPP (Internet Printing Protocol) print service. Printing via the Internet is possible with the HTTP (HyperText Transfer Protocol) of the TCP/IP protocol. IPPS is an IPP for SSL encrypted communication.	
	Web Service print	A connection supports WSD (Web Service on Devices) of Windows Vista/Server 2008/7, detects the printer on the network automatically and connects.	
	USB	A connection using a USB port.	
Connection method that can be set up with plug-and-play	USB	A connection using a USB port.	For Windows Vista/7/Server 2008: "Local connection" on page 4-18



Note

Before using this machine in a network environment, the network settings must be specified for this machine. For details, refer to the User manual – Network Administrator.

To install the printer driver under Windows Vista/7/Server 2008, log on as the Administrator.

Either of the installer or Add Printer Wizard can be used to install the PCL driver and PS driver.

When using Windows Vista/7/Server 2008, the IPPS connection can not be setup using the installer. For using IPPS connection, setup the connection using the Add Printer Wizard. For details, refer to "Network connection (IPP or IPPS)" on page 4-14.

3.3.3 Windows NT 4.0

Setup method	Connection method		Refer to
Connection method that can be set up with the Add Printer wizard	LPR	A network connection using the LPR print service.	"Manual installation using the Add Printer wizard" on page 4-3



Note

Before using this machine in a network environment, the network settings must be specified for this machine. For details, refer to the User manual – Network Administrator.

To install the printer driver under Windows NT 4.0, log on using a user name that is authorized by the administrator.

3.3.4 Mac OS 9.2

Setup method	Connection method		Refer to
A method to specify the Printer Description File (PPD file)	AppleTalk	A network connection using AppleTalk.	"Installation on Macintosh computers" on page 5-3 * Specify the connection method when selecting the printer.
	LPR (LPD)	A network connection using the LPR print service.	



Detail

Before using this machine in a network environment, the network settings must be specified for this machine. For details, refer to the User manual – Network Administrator.

3.3.5 Mac OS 10.2, 10.3, 10.4, 10.5 or 10.6

Setup method	Connection method		Refer to
Connection method that can be set up with an installer	Bonjour	A network connection using Bonjour and Rendezvous.	"Installation on Macintosh computers" on page 5-3 * Specify the connection method when selecting the printer.
	AppleTalk	A network connection using AppleTalk.	
	LPR	A network connection using the LPR print service.	
	IPP	A network connection using the IPP print service.	



Detail

A network connection using AppleTalk is available for up to Mac OS X 10.2/10.3/10.4/10.5.

Before using this machine in a network environment, the network settings must be specified for this machine. For details, refer to the User manual – Network Administrator.

3.3.6 NetWare

NetWare version	Protocol used	Connection method
NetWare 4.x	IPX	Bindery Pserver Nprinter/Rprinter
NetWare 5.x	IPX	NDS Pserver Nprinter/Rprinter
	TCP/IP	NDPS
NetWare 6.x	IPX	NDS Pserver
	TCP/IP	NDPS

**Note**

For details on the NetWare functions, refer to the NetWare operation manual of the NetWare.

Before using this machine in a NetWare environment, the network settings must be specified for this machine. For details, refer to the User manual – Network Administrator.



Manual installation using the Add Printer wizard

4 Manual installation using the Add Printer wizard

4.1 Windows XP/Server 2003

4.1.1 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.



Detail

For details on specifying the IP address of this machine, refer to the User manual [Network Administrator].

RAW port number setting for this machine

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



Detail

For details on specifying the RAW port number of this machine, refer to the User manual [Network Administrator].

LPD setting for this machine

To use LPR printing, enable LPD print on "LPD Setting" of this machine.



Detail

For details on the LPD settings of this machine, refer to the User manual [Network Administrator].

Printer driver installation using the Add Printer Wizard



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Reminder

When installing on Windows XP or Server 2003, administrator permissions are required.

- 1 Insert the Driver DVD into the DVD drive of the computer.
- 2 Click the [Start] button, 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] button.
- 5 Select "Local printer attached to this computer", and then click the [Next] button.
 - 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] button.
The Add Standard TCP/IP Printer Port Wizard starts.
- 8** Click the [Next] button.
- 9** In the "Printer Name or IP address" box, enter the IP address for this machine, and then click the [Next] button.
 - 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] button.
- 11** Change the settings according to the port, and then click the [OK] button.
 - 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] button.
- 13** Click the [Finish] button.
The Add Printer Wizard appears.
- 14** Click the [Have Disk] button.
- 15** Click the [Browse] button.
- 16** Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
Printer drivers that can be selected: PCL driver, PS driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 17** Click the [OK] button.
The "Printers" list appears.
- 18** Click the [Next] button.
- 19** Follow the on-screen instructions.
 - If the Windows Logo Testing or Digital Signature dialog box appears, click the [Continue] or [Yes] button.
 - When using a network connection, perform a test print after the network settings have been specified.
- 20** Click the [Finish] button.
- 21** When installation is complete, make sure that the icon of the installed printer appears in the Printers and Faxes window.
- 22** Remove the DVD from the DVD drive.
This completes the printer driver installation.

4.1.2 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 in the TCP/IP Setting screen of this machine.



Detail

For details on specifying the IP address of this machine, refer to the User manual [Network Administrator].



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Note

When using the IPv6 protocol, the Direct Hosting Setting on the machine must be enabled. For details, refer to the User manual [Network Administrator].

SMB setting for this machine

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



Detail

For details on the SMB settings of this machine, refer to the User manual [Network Administrator].

Printer driver installation by specifying printers using the Add Printer Wizard



...

Reminder

When installing on Windows XP or Server 2003, administrator permissions are required.

- 1 Insert the Driver DVD into the DVD drive of the computer.
- 2 Click the [Start] button, 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] button.
- 5 Select "Local printer attached to this computer", and then click the [Next] button.
 - 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 "Local Port" for "Type of port:"
- 7 In the "Enter a port name" box, enter "\\NetBIOS name\print service name".
 - Enter the same NetBIOS name and print service name those appear in "Print Setting" in the SMB Setting screen of this machine.
- 8 Click the [OK] button.
The Add Printer Wizard appears.
- 9 Click the [Have Disk] button.

- 10** Click the [Browse] button.
- 11** Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
Printer drivers that can be selected: PCL driver, PS driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 12** Click the [OK] button.

The "Printers" list appears.
- 13** Click the [Next] button.
- 14** Follow the on-screen instructions.
 - If the Windows Logo Testing or Digital Signature dialog box appears, click the [Continue] or [Yes] button.
 - When using a network connection, perform a test print after the network settings have been specified.
- 15** Click the [Finish] button.
- 16** When installation is complete, make sure that the icon of the installed printer appears in the Printers and Faxes window.
- 17** Remove the DVD from the DVD drive.

This completes the printer driver installation.

4.1.3 Network connection (IPP or IPPS)

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

Specifying the TCP/IP setting for this machine

Specify the IP address of this machine.



Detail

For details on specifying the IP address of this machine, refer to the User manual [Network Administrator].

Specifying the IPP settings for this machine

Enable IPP printing in "IPP Setting" of this machine.



Detail

For details on the IPP settings of this machine, refer to the User manual [Network Administrator].

To use IPPS printing, the certificate must be registered to this machine. For details, refer to the User manual [Network Administrator].

Printer driver installation using the Add Printer wizard



Reminder

When installing on Windows XP or Server 2003, administrator permissions are required.

- 1 Insert the Driver DVD into the DVD drive of the computer.
- 2 Click the [Start] button, and then click "Printers and Faxes".
 - If "Printers and Faxes" does not appear in the "Start" menu, open the 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.
"Add Printer wizard" starts.
- 4 Click the [Next] button.
- 5 In the Local or Network Printer dialog box, select "Network printer", and then click the [Next] button.
- 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 this machine in the following format, and then click the [Next] button.
 - http:// (IP_address_of_machine) /ipp Example: If the IP address of this machine is 192.168.1.20, enter http://192.168.1.20/ipp.
 - When setting this machine 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] button.
- 9 Click the [Have Disk] button.
- 10 Click the [Browse] button.
- 11 Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
Printer drivers that can be selected: PCL driver, PS driver

- 12** Click the [OK] button.
The "Printer" list appears.
- 13** Click the [Next] button.
- 14** Follow the on-screen instructions.
 - If the Windows Logo Testing or Digital Signature dialog box appears, click the [Continue] or [Yes] button.
- 15** Click the [Finish] button.
- 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 DVD from the DVD drive.
This completes the printer driver installation.

Once the settings for the printer have been specified, you can use the printer in the same way as a default local printer. Also, if you set up the printer for sharing in Windows, it can be used as a network printer by other Windows computers over the network.

4.1.4 Local connection

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

**Note**

When a connection is made with the USB port, the local interface kit is required.

Printer driver can be installed using the Add Printer Wizard. When using the Add Printer Wizard, select the USB port to be connected in the Select a Printer Port dialog box.

- 1 Connect this machine to a computer using a USB cable, and then start up the computer.
 - Do not disconnect or connect the cable while the computer is starting up.
- 2 Insert the Driver DVD into the DVD drive of the computer.
- 3 Turn on the main power of this machine.
The Found New Hardware Wizard dialog box appears.
 - If the Found New Hardware Wizard does not start up, 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.
- 4 Select "Install from a list or specific location (Advanced)", and then click the [Next] button.
 - 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] button.
- 6 Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
Printer drivers that can be selected: PCL driver, PS driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 7 Click the [Next] button, and then follow the on-screen instructions.
 - If the Windows Logo Testing or Digital Signature dialog box appears, click the [Continue] or [Yes] button.
- 8 Click the [Finish] button.
- 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 DVD from the DVD drive.
This completes the printer driver installation.

4.2 Windows Vista/7/Server 2008

4.2.1 Network connection (LPR, Port9100, or SMB)

In Windows Vista/7/Server 2008, the printer driver can be installed either by searching printers on the network, or by creating a new printer port.

Specifying the TCP/IP setting for this machine

Specify the IP address of this machine.



Detail

For details on specifying the IP address of this machine, refer to the User manual [Network Administrator].



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Note

When using the IPv6 protocol, the Direct Hosting Setting on the machine must be enabled. For details, refer to the User manual [Network Administrator].

RAW port number setting for this machine

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



Detail

For details on specifying the RAW port number of this machine, refer to the User manual [Network Administrator].

LPD setting for this machine

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



Detail

For details on the LPD settings of this machine, refer to the User manual [Network Administrator].

SMB setting for this machine

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



Detail

For details on the SMB settings of this machine, refer to the User manual [Network Administrator].

Printer driver installation by searching printers using the Add Printer Wizard**Note**

When installing on Windows Vista/7/Server 2008, administrator permissions are required.

Printers will be found during installation. Connect this machine to the network, and then turn on the power.

- 1** Insert the Driver DVD into the DVD drive of the computer.
- 2** Click the [Start] button, and then click "Control Panel".
- 3** Select the desired printer function in "Hardware and Sound".
 - In Windows Vista/Server 2008, click "Printers" in "Hardware and Sound". If Control Panel is displayed in Classic View, double-click "Printers".
 - In Windows 7/Server 2008 R2, select "View devices and printers" from "Hardware and Sound". When Control Panel is displayed in Icon View, double-click "Devices and Printers".
- 4** Click "Add a printer" from the toolbar.

The Add Printer window appears.
- 5** Click "Add a network, wireless or Bluetooth printer".
 - 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.

The connected printers are detected.
- 6** Select this machine from the list, and then click the [Next] button.
 - When using the LPR/Port9100 protocol, select the printer having its IP address.
 - When using an SMB connection, select the printer having its "\\NetBIOS name\print service name".
 - When using the SMB connection, click [Next], and then click [OK] in the "Connect to Printer" window that appears.
 - It may take some time to finish searching the entire list of printers.
- 7** Click the [Have Disk] button.
- 8** Click the [Browse] button.
- 9** Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.

Printer drivers that can be selected: PCL driver, PS driver, XPS driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 10** Click the [OK] button.

The "Printer" list appears.
- 11** Click the [Next] button.
 - When using the SMB connection, click [OK].
- 12** Follow the on-screen instructions.
 - If the "User Account Control" window appears, click the [Continue] or [Yes] button.
 - If the Verify the publisher dialog box of Windows Security appears, click "Install this driver software anyway".
- 13** Click the [Finish] button.
- 14** When the installation is completed, make sure that the icon of the installed printer appears in the Printers window.

15 Remove the DVD from the DVD drive.

This completes the printer driver installation.

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

When installing on Windows Vista/7/Server 2008, administrator permissions are required.

Printers will be found during installation. Connect this machine to the network, and then turn on the power.

- 1** Insert the Driver DVD into the DVD drive of the computer.
- 2** Click the [Start] button, and then click "Control Panel".
- 3** Select the desired printer function in "Hardware and Sound".
 - In Windows Vista/Server 2008, click "Printers" in "Hardware and Sound". If Control Panel is displayed in Classic View, double-click "Printers".
 - In Windows 7/Server 2008 R2, select "View devices and printers" from "Hardware and Sound". When Control Panel is displayed in Icon View, double-click "Devices and Printers".
- 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] button.
- 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.
 - When both LPR and Port9100 are enabled for this machine, the printer driver and the machine is connected with LPR.
 - Enter the same NetBIOS name and print service name those appear in "Print Setting" in the SMB Setting screen of this machine.
- 9** Click the [Next] button.
 - 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] button.
- 11** Change the settings according to the port, and then click the [OK] button.
 - 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] button.

The Install the printer driver dialog box appears.
- 13** Click the [Have Disk] button.
- 14** Click the [Browse] button.

- 15** Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
Printer drivers that can be selected: PCL driver, PS driver, XPS driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 16** Click the [OK] button.
The "Printers" list appears.
- 17** Click the [Next] button.
- 18** Follow the on-screen instructions.
 - If the User Account Control window appears, click the [Continue] button.
 - If the Verify the publisher dialog box of Windows Security appears, click "Install this driver software anyway".
- 19** Click the [Finish] button.
- 20** After installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 21** Remove the DVD from the DVD drive.
This completes the printer driver installation.

4.2.2 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.



Detail

For details on specifying the IP address of this machine, refer to the User manual [Network Administrator].

Specifying the IPP settings for this machine

Enable IPP printing in "IPP Setting" of this machine.



Detail

For details on the IPP settings of this machine, refer to the User manual [Network Administrator].

To use IPPS printing, the certificate must be registered to this machine. For details, refer to the User manual [Network Administrator].

Printer driver installation using the Add Printer wizard



...

Reminder

When installing on Windows Vista/7/Server 2008, administrator permissions are required.

- 1 Insert the Driver DVD into the DVD drive of the computer.
- 2 Click the [Start] button, and then click "Control Panel".
- 3 Select the desired printer function in "Hardware and Sound".
 - In Windows Vista/Server 2008, click "Printers" in "Hardware and Sound". If Control Panel is displayed in Classic View, double-click "Printers".
 - In Windows 7/Server 2008 R2, select "View devices and printers" from "Hardware and Sound". When Control Panel is displayed in Icon View, double-click "Devices and Printers".
- 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 this machine in the following format, and then click the [Next] button.
 - http:// (IP_address_of_machine) /ipp Example: If the IP address of this machine is 192.168.1.20, enter http://192.168.1.20/ipp.
 - When specifying to use IPP printing, enter "https:// < host name>.<domain name>/ipp". The window for confirming the user name and password may appear in the course of installation. For the host name and domain name, use the names specified on this machine and which are the names specified for "Common Name" settings for the certificate.
 - When the certificate of this machine is not published by certificate authority, register the certificate of this machine to Windows Vista/7/Server 2008 as a certificate of "Trusted Publishers" for "Computer account" in advance.
- 8 Click the [Have Disk] button.
- 9 Click the [Browse] button.

- 10** Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
Printer drivers that can be selected: PCL driver, PS driver, XPS driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 11** Click the [OK] button.
The "Printer" list appears.
- 12** Click the [Next] button.
- 13** Follow the on-screen instructions.
 - If the "User Account Control" window appears, click the [Continue] button.
 - If the Verify the publisher dialog box of Windows Security appears, click "Install this driver software anyway".
- 14** Click the [Finish] button.
- 15** When the installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 16** Remove the DVD from the DVD drive.
This completes the printer driver installation.

Once the settings for the printer have been specified, you can use the printer in the same way as a default local printer. Also, if you set up the printer for sharing in Windows, it can be used as a network printer by other Windows computers over the network.

4.2.3 Network connection (Web Service print)

In Windows Vista/7/Server 2008, Web Service print-supporting printers on the network can be located and installed.



Note

When the different kind of printer driver install after installing the printer driver, delete the installed printer driver in advance.

For details, refer to "Manual uninstallation" on page 7-3.

TCP/IP setting for this machine

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



Detail

For details on specifying the IP address of this machine, refer to the User manual [Network Administrator].

Web Service settings for this machine

To use the Web Service print, enable the print function in the Web Service Settings screen of this machine.



Detail

For details on the Web Service settings of this machine, refer to the User manual [Network Administrator].


Printer installation from the Network window

When using Web service print in Windows Vista/Server 2008/7, install the printer driver before having the system recognize it with plug and play.



Reminder

When installing the driver on Windows Vista/Server 2008/7-based computers, administrator permissions are required.

- 1 Install the printer driver of this machine.
 - Install the printer driver using the Add Printer Wizard.
 - The printer driver can be installed in any port.
 - For details, refer to "Printer driver installation by specifying printers using the Add Printer Wizard" on page 4-5.
- 2 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.
- 3 To use the Web service print, check that "Network discovery" is enabled in "Network and Sharing Center" on the computer.
- 4 Open the Network window.
 - In Windows Vista/Server 2008, click , and "Network".
 - In Windows 7/Server 2008 R2, open "Computer" and click "Network".

If "Network" is not displayed in "Computer", click the "Network and Internet" category in Control Panel, and also click "View network computers and devices".

The connected computers and devices are detected.
- 5 Select the device name of this machine, and then click "Install" from the toolbar.
 - You can check the device name by selecting [Administrator Settings] - [Network Settings] - [Web Service Settings] - [Printer Settings] in this machine. By default, the last 6 characters in [Printer Name] correspond to the last 3 bytes in the MAC address.

- To check the MAC address, select "Configuration Page".
- The printer driver for this machine is detected and the machine is ready to print.

- When installation is complete, make sure that the icon for the installed printer is displayed in the "Printers" or "Devices and Printers" window.
 - If the printer driver is not correctly installed, the driver must be updated using [Update Driver ...]. For details, refer to "Updating the driver after connecting this machine" on page 4-20.
 - In Windows Vista/Server 2008, you can continuously specify the printer driver installation disk to install the printer driver if it is not installed in advance. When the Found New Hardware Wizard dialog box appears, follow the displayed messages to perform the procedure. For details, refer to Steps 11 through 20 in the succeeding section.
 - In Windows 7/Server 2008 R2, you cannot specify the installation disk after connection has been completed. Install the printer driver in advance (Step 1).

Printer driver installation by specifying the IP address using the Add Printer Wizard

In Windows Vista/Server 2008, you can add a Web service device using the printer addition function after connecting this machine.



Reminder

In Windows 7/Server 2008 R2, a window for specifying the installation disk does not appear after the machine is connected to the computer. Install the printer driver and connect this machine as described on page 4-16.

When installing on Windows Vista/Server 2008, administrator permissions are required.

Printers will be found during installation. Connect this machine to the network, and then turn on the power.

- 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.
- To use the Web Service print, check that "Network discovery" is enabled in "Network and Sharing Center" on the computer.
- Insert the Driver DVD into the DVD drive of the computer.
- Click the [Start] button, and then click "Control Panel".
- From "Hardware and Sound", click "Printer".
The Printers window appears.
 - If Control Panel is displayed with Classic View, double-click "Printers".
- Click "Add a printer" from the toolbar.
The Add Printer window appears.
- Click "Add a local printer".
The Select a Printer Port dialog box appears.
- Click "Create a new port", and select the port type.
 - Select "Standard TCP/IP Port".
- Click the [Next] button.
- Select "Web Services Device" and enter the IP address.
The Web Service print-supporting printer corresponding to the entered IP address is found, and then the Found New Hardware Wizard dialog box appears.
- Click "Locate and install driver software (recommended)".
A screen for confirming the search method appears.

- 12 Click "Do not search online".
- 13 Click "Browse my computer for driver software (advanced)".
- 14 Click the [Browse] button.
- 15 Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
Printer drivers that can be selected: PCL driver, PS driver, XPS driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 16 Click the [Next] button.
- 17 Follow the on-screen instructions.
 - If the User Account Control window appears, click the [Continue] button.
 - If the Verify the publisher dialog box of Windows Security appears, click "Install this driver software anyway".
- 18 Click the [Close] button.
- 19 After installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 20 Remove the DVD from the DVD drive.
This completes the printer driver installation.

4.2.4 Local connection



Note

When a connection is made with the USB port, the local interface kit is required.

Making the installed printer driver known to the computer

To connect this machine using the USB port in Windows Vista/Server 2008/7, install the printer driver before making it known to the computer with plug and play.

- ✓ To connect this machine using the USB port, an optional local interface kit is necessary.
- 1 Install the printer driver for this machine.
 - Install the printer driver using the Add Printer Wizard.
 - To use the Add Printer Wizard, select the USB port to be connected in Select a Printer Port dialog box.
 - For details, refer to "Printer driver installation by searching printers using the Add Printer Wizard" on page 4-11.
 - 2 Connect this machine to the computer using a USB cable.
 - 3 Turn on the main power of this machine.
The printer driver for this machine is detected and the machine is ready to print.
 - If no printer driver is detected, turn this machine off, then on again. In this case, turn off this machine, and then wait approximately 10 seconds before turning it on again. If you turn this machine on immediately after turning it off, it may not function correctly.
 - 4 After finishing the installation, make sure that the icon for the installed printer is displayed in the [Printers] or [Devices and Printers] window.
 - If the printer driver is not correctly installed, the driver must be updated using [Update Driver ...]. For details, refer to page 4-20.

Installing the printer driver when connecting the machine

In Windows Vista/Server 2008, the printer driver can be installed after you connect this machine.



Detail

In Windows 7/Server 2008 R2, a window for specifying an installation disk does not appear after the machine is connected to the computer. Install the printer driver in advance and connect the driver as described in "Making the installed printer driver known to the computer".

- 1 Connect this machine to a computer using a USB cable, and then start up the computer.
 - Do not disconnect or connect the cable while the computer is starting up.
- 2 Turn on the main power of this machine.
The Found New Hardware Wizard dialog box appears.
 - If the Found New Hardware Wizard dialog box does not appear, 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.
- 3 Click "Locate and install the driver software (recommended)".
 - If the disk is not available, click "I don't have the disk. Show me other options". In the next window, select "Browse my computer for driver software (advanced)", and then specify the desired printer driver folder.

The dialog box prompting you to insert the disk appears.
- 4 Insert the Driver DVD into the DVD-ROM drive of the computer.
The information on the disk is retrieved. A list of software supporting this machine appears.
- 5 Specify the name of the desired printer driver, and then click the [Next] button.
 - Printer drivers that can be selected: PCL driver, PS driver, XPS driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 6 Follow the on-screen instructions.
 - If the "User Account Control" window appears, click the [Continue] button or [Yes] button.
 - If the dialog box of Windows Security appears, click "Install this driver software anyway".
- 7 When the installation is completed, click the [Close] button.
- 8 When the installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 9 Remove the DVD-ROM from the DVD-ROM drive.
This completes the printer driver installation.

Updating the driver after connecting this machine

In Windows Server 2008 R2/7, the printer driver is not recognized properly if this machine is connected before the printer driver is installed. In this case, the driver must be updated using [Update Driver ...].

- 1** Open the "Devices and Printers" window.
 - In Control Panel, select "View devices and printers" from "Hardware and Sound". When "Control Panel" is displayed in Icon View, double-click "Devices and Printers".
- 2** Right-click the device name of the machine that is displayed in the "Unspecified" category, and click "Properties".
 - If "Unknown Device" is displayed instead of the device name of this machine, right-click to remove the device, and install the printer driver. To connect this machine, perform the procedure to recognize the printer driver. For details, refer to "Printer installation from the Network window" on page 4-16, or "Making the installed printer driver known to the computer" on page 4-18.
- 3** On the "Hardware" tab, click "Properties".
- 4** On the "General" tab, click "Change Settings".
- 5** On the "Driver" tab, click [Update Driver...].
- 6** In the window for selecting how to search the driver software, click "Browse my computer for driver software (advanced)".
- 7** Click [Browse...].
- 8** Select a desired printer driver folder in the DVD-ROM, and then click [OK] button.
 - Printer drivers that can be selected: PCL driver, PS driver, XPS driver and fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 9** Click [Next] button.
- 10** Follow the on-screen instructions.
 - If the Verify the publisher dialog box of "Windows Security" appears, click "Install this driver software anyway".
- 11** Click [Close] button.
- 12** When installation is complete, make sure that the icon for the installed printer is displayed in the "Device and Printer" window.
- 13** Remove the DVD-ROM from the DVD-ROM drive.

This completes the update of the printer driver.

 - In Windows Vista/Server 2008, [Update Driver...] is also available. In Windows Vista/Server 2008, use "Device Manager" to open "Properties" of this machine that is displayed in "Other devices". Then you can specify [Update Driver...]. To select "Device Manager", right-click "Computer", and click "Properties". In the "Tasks" panel that appears, click "Device Manager".

4.3 Windows 2000

4.3.1 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.



Detail

For details on specifying the IP address of this machine, refer to the User manual [Network Administrator].

RAW port number setting for this machine

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



Detail

For details on specifying the RAW port number of this machine, refer to the User manual [Network Administrator].

LPD setting for this machine

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



Detail

For details on the LPD settings of this machine, refer to the User manual [Network Administrator].

Printer driver installation using the Add Printer Wizard



Reminder

When installing on Windows 2000, administrator permissions are required.

- 1 Insert the Driver DVD into the DVD drive of the computer.
- 2 Click the [Start] button, point to "Settings", and then click "Printers".
- 3 Double-click "Add Printer".
The Add Printer Wizard starts.
- 4 Follow the on-screen instructions.
- 5 In the dialog box for specifying the connection method, select "Local printer", and then click the [Next] button.
– 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] button.
The Add Standard TCP/IP Printer Port Wizard starts.
- 8 Click the [Next] button.

- 9** In the "Printer Name or IP address" box, enter the IP address for this machine, and then click the [Next] button.
 - 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] button.
- 11** Change the settings according to the port, and then click the [OK] button.
 - 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] button.
- 13** Click the [Finish] button.

The Add Printer Wizard appears.
- 14** Click the [Have Disk] button.
- 15** Click the [Browse] button.
- 16** Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.

Printer drivers that can be selected: PCL driver, PS driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 17** Click the [OK] button.

The "Printers" list appears.
- 18** Click the [Next] button.
- 19** Follow the on-screen instructions.
 - When the Digital Signature dialog box appears, click the [Yes] button.
- 20** Click the [Finish] button.
- 21** After installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 22** Remove the DVD from the DVD drive.

This completes the printer driver installation.

4.3.2 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.



Detail

For details on specifying the IP address of this machine, refer to the User manual [Network Administrator].



Note

When using the IPv6 protocol, the Direct Hosting Setting on the machine must be enabled. For details, refer to the User manual [Network Administrator].

SMB setting for this machine

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



Detail

For details on the SMB settings of this machine, refer to the User manual [Network Administrator].

Printer driver installation using the Add Printer Wizard



Reminder

When installing on Windows 2000, administrator permissions are required.

- 1 Insert the Driver DVD into the DVD drive of the computer.
- 2 Click the [Start] button, point to "Settings", and then click "Printers".
- 3 Double-click "Add Printer".
The Add Printer Wizard starts.
- 4 Follow the on-screen instructions.
- 5 In the dialog box for specifying the connection method, select "Local printer", and then click the [Next] button.
 - 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 "Local Port" for "Type of port:"
- 7 Click the [Next] button.
- 8 In the "Port Name" box, enter "\\NetBIOS name\print service name".
 - Enter the same NetBIOS name and print service name those appear in "Print Setting" in the SMB Setting screen of this machine.
- 9 Click the [OK] button.
The Add Printer Wizard appears.
- 10 Click the [Have Disk] button.
- 11 Click the [Browse] button.

- 12** Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
Printer drivers that can be selected: PCL driver, PS driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 13** Click the [OK] button.
The "Printers" list appears.
- 14** Click the [Next] button.
- 15** Follow the on-screen instructions.
 - When the Digital Signature dialog box appears, click the [Yes] button.
- 16** Click the [Finish] button.
- 17** After installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 18** Remove the DVD from the DVD drive.
This completes the printer driver installation.

4.3.3 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.



Detail

For details on specifying the IP address of this machine, refer to the User manual [Network Administrator].

Specifying the IPP settings for this machine

Enable IPP printing in "IPP Setting" of this machine.



Detail

For details on the IPP settings of this machine, refer to the User manual [Network Administrator].

To use IPPS printing, the certificate must be registered to this machine. For details, refer to the User manual [Network Administrator].

Printer driver installation using the Add Printer wizard



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Reminder

When installing on Windows 2000, administrator permissions are required.

- 1** Insert the Driver DVD into the DVD drive of the computer.
- 2** Click the [Start] button, and then click "Setup" - "Printer".
- 3** Double-click "Add Printer".
"Add Printer wizard" starts.
- 4** Click the [Next] button.
- 5** In the Local or Network Printer dialog box, select "Network printer", and then click the [Next] button.

- 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 this machine in the following format, and then click the [Next] button.
 - `http:// (IP_address_of_machine)/ipp` Example: If the IP address of this machine is 192.168.1.20, enter `http://192.168.1.20/ipp`.
 - When setting this machine 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] button.
- 9** Click the [Have Disk] button.
- 10** Click the [Browse] button.
- 11** Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
Printer drivers that can be selected: PCL driver, PS driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 12** Click the [OK] button.
The "Printer" list appears.
- 13** Click the [OK] button.
- 14** Follow the on-screen instructions.
 - When the "Digital Signature" dialog box appears, click the [Yes] button.
- 15** Click the [Finish] button.
- 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 DVD from the DVD drive.
This completes the printer driver installation.

Once the settings for the printer have been specified, you can use the printer in the same way as a default local printer. Also, if you set up the printer for sharing in Windows, it can be used as a network printer by other Windows computers over the network.

4.3.4 Local connection

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



Note

When a connection is made with the USB port, the local interface kit is required.

- 1** Connect this machine to a computer using a USB cable, and then start up the computer.
 - Do not disconnect or connect the cable while the computer is starting up.
- 2** Insert the Driver DVD into the DVD drive of the computer.
- 3** Turn on the main power of this machine.
The Found New Hardware Wizard dialog box appears.
 - If the Found New Hardware Wizard does not start up, 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.
- 4** Select "Search for a suitable driver for my device (recommended)", and then click the [Next] button.
- 5** Select "Specify location", and then click the [Next] button.
- 6** Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
Printer drivers that can be selected: PCL driver, PS driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 7** Click the [OK] button, and then follow the on-screen instructions.
 - When the "Digital Signature" dialog box appears, click the [Yes] button.
- 8** Click the [Finish] button.
- 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 DVD from the DVD drive.
This completes the printer driver installation.

4.4 Windows NT 4.0

4.4.1 Network connection (LPR)

When using the LPR 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.



Detail

For details on specifying the IP address of this machine, refer to the User manual [Network Administrator].

LPD setting for this machine

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



Detail

For details on the LPD settings of this machine, refer to the User manual [Network Administrator].

Printer driver installation using the Add Printer Wizard



Reminder

When installing on Windows NT 4.0, administrator permissions are required.

To use the LPR port in Windows NT 4.0, Microsoft TCP/IP Print Services must be installed on the computer.

- 1 Insert the Driver DVD into the DVD drive of the computer.
- 2 Click the [Start] button, point to "Settings", and then click "Printers".
- 3 Double-click "Add Printer".
The Add Printer Wizard starts.
- 4 Follow the on-screen instructions.
- 5 In the dialog box for specifying the connection method, select "This computer", and then click the [Next] button.
- 6 Click the [Next] button.
A screen for specifying ports appears.
- 7 Click the [Add Port] button.
- 8 In the "Available Printer Ports" list, select "LPR Port", and then click the [New Port] button.
- 9 Enter the IP address of this machine in the "Address" box and "Print" in the "Queue Name" box, and then click the [OK] button.
 - The information entered here is case-sensitive.
- 10 Select the created port, and then click the [Next] button.
- 11 Click the [Have Disk] button.
- 12 Click the [Browse] button.

- 13** Specify the desired folder on the DVD that contains the printer driver, and then click the [Open] button.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
Printer drivers that can be selected: PCL driver, fax driver
 - For details on fax drivers, refer to the User manual – Fax Driver Operations.
- 14** Click the [OK] button.
The "Printers" list appears.
- 15** Click the [Next] button.
- 16** Follow the on-screen instructions.
- 17** Click the [Finish] button.
- 18** After installation is completed, make sure that the icon of the installed printer appears in the Printers window.
- 19** Remove the DVD from the DVD drive.
This completes the printer driver installation.



Installation on Macintosh computers

5 Installation on Macintosh computers

5.1 Mac OS X 10.2, 10.3, 10.4, 10.5 or 10.6

5.1.1 Installing the printer driver

- 1 Start up the Mac computer.
- 2 Insert the Driver DVD into the DVD drive of the computer.
 - Exit all running applications, if any.
- 3 Open the folder on the DVD that contains the desired printer driver.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
- 4 Copy the driver file for the Mac OS version on the desktop.
 - OS X 10.2: bizhub_751_102.pkg
 - OS X 10.3: bizhub_751_103104.pkg
 - OS X 10.4: bizhub_751_103104.pkg
 - OS X 10.5: bizhub_751_105.pkg
 - OS X 10.6: bizhub_751_106.pkg
 - For OS X 10.5/10.6, the driver folder varies depending on the paper size. Select the appropriate driver folder for your environment.
 - To use metric-based paper size (A4 and the like): Select a file in "A4" folder.
 - To use inch-based paper size (8 1/2 x 11 in letter size): Select "Letter" folder.
- 5 Double-click the file copied on the desktop.
 - As prompted, enter the administrator name and password.
 - For the administrator name and password, contact your network administrator.
 - To quit the installation, click the [Cancel] button.
- 6 Click the [Continue] button and follow the on-screen instructions until the Easy Install dialog box appears.
- 7 In the Install dialog box, click the [Install] button.
 - For OS X 10.2/10.3/10.4, when the printer driver is installed for the second and subsequent times, the [Install] button may appear as the [Upgrade] button.

The printer driver is installed to the Mac computer. When the installation is completed, a message appears.
- 8 Click the [Close] button.

This completes the printer driver installation.

Next, select a printer.

5.1.2 Selecting and connecting the printer (OS 10.4/10.5/10.6)

This machine can be connected with Bonjour, AppleTalk (10.4/10.5 only), LPR (LPD), or IPP.

After specifying the network setting for this machine, selecting this machine as the printer to be used in "Print & Fax" enables printing.



...

Note

In Mac OS X 10.6, AppleTalk is unavailable.

Specifying the Bonjour settings

Specifying the Bonjour settings for this machine

Enable Bonjour in "Bonjour Setting", and then enter the Bonjour name.



Detail

For details on the Bonjour settings of this machine, refer to the User manual – Network Administrator.

Adding a printer

- 1 On the "Apple" menu, select "System Preferences".
- 2 Click the "Print & Fax" icon.
- 3 Click [+] in the Print & Fax window.
- 4 Click "Default".
Connected printers are detected.
 - If no printer is detected, turn this machine off, then on again. In this case, turn off this machine, and then wait approximately 10 seconds before turning it on again. If you turn this machine on immediately after turning it off, it may not function correctly.
- 5 From the "Printer Name" list, select the desired model name and connection (Bonjour).
 - After the printer driver is selected automatically, go to Step 7.
 - If an incorrect printer driver is selected, go to Step 6.
- 6 Select the desired printer driver manually.
 - When OS X 10.4 is used, select "KONICA MINOLTA" in "Print Using", and then select the printer driver of the desired model name from the list.
 - When OS X 10.5 is used, select the "Select a driver to use" from the "Print Using", and then select the printer driver of the desired model name from the list.
 - When OS X 10.6 is used, select "Select printer software" from the "Print Using", and then select the printer driver of the desired model name from the list that is displayed in another window.
 - In case of OS X 10.5/10.6, you can find the driver easily by inputting "KONICA MINOLTA" in the text box for search.
- 7 Click the [Add] button.
If the selected printer is registered in the "Print & Fax", the setting procedure is completed.



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Note

If the Installable Options window appears, proceed to change the option settings as necessary. For details, refer to "Initializing the printer driver" on page 9-4.

For OS X 10.4, you can also add a printer by clicking [Add] in the Printer Setup Utility window.

Specifying the AppleTalk settings

Specifying the AppleTalk settings for this machine

Enable AppleTalk in "AppleTalk Setting", and then enter the printer name.



Detail

For details on the AppleTalk settings of this machine, refer to the User manual – Network Administrator.

Specifying the AppleTalk settings for the computer

Specify the AppleTalk settings for the Mac computer connected to this machine.



Note

In Mac OS X 10.6, AppleTalk is unavailable.

- 1 On the "Apple" menu, select "System Preferences".
- 2 Click the "Network" icon.
- 3 The Ethernet setting window appears.
 - For OS X 10.4, select "Built-in Ethernet", and then click the [Configure] button.
 - For OS X 10.5, select "Ethernet", and then click the [Advanced] button.
- 4 Click the AppleTalk tab to enable AppleTalk.
- 5 Click the close button at the upper left corner of the dialog box.
 - When the "Apply configuration changes?" message appears, click the [Apply] button.

Adding a printer

- 1 On the "Apple" menu, select "System Preferences".
- 2 Click the "Print & Fax" icon.
- 3 Click [+] in the Print & Fax window.
- 4 Click "Default".
Connected printers are detected.
 - If no printer is detected, turn this machine off, then on again. In this case, turn off this machine, and then wait approximately 10 seconds before turning it on again. If you turn this machine on immediately after turning it off, it may not function correctly.
- 5 From the "Printer Name" list, select the desired model name and connection (AppleTalk).
 - After the printer driver is selected automatically, go to Step 7.
 - If an incorrect printer driver is selected, go to Step 6.
- 6 Select the desired printer driver manually.
 - When OS X 10.4 is used, select "KONICA MINOLTA" in "Print Using", and then select the printer driver of the desired model name from the list.
 - When OS X 10.5 is used, select the "Select a driver to use" from the "Print Using", and then select the printer driver of the desired model name from the list.
 - In case of OS X 10.5, you can find the driver easily by inputting "KONICA MINOLTA" in the text box for search.
- 7 Click the [Add] button.
If the selected printer is registered in the "Print & Fax", the setting procedure is completed.

**Note**

*If the Installable Options window appears, proceed to change the option settings as necessary. For details, refer to "Initializing the printer driver" on page 9-4.
For OS X 10.4, you can also add a printer by clicking [Add] in the Printer Setup Utility window.*

Specifying the LPR settings***Specifying the TCP/IP setting for this machine***

Specify the IP address of this machine.

**Detail**

For details on the IP address settings of this machine, refer to the User manual – Network Administrator.

LPD setting for this machine

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

**Detail**

For details on the LPD settings of this machine, refer to the User manual – Network Administrator.

Specifying the TCP/IP setting for the computer

Specify the TCP/IP setting for the Mac computer connected to this machine.

- 1** On the "Apple" menu, select "System Preferences".
- 2** Click the "Network" icon.
- 3** The Ethernet setting window appears.
 - For OS X 10.4, select "Built-in Ethernet", and then click the [Configure] button.
 - For OS X 10.5/10.6, select "Ethernet", and then click the [Advanced] button.
- 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 "This service has unsaved changes" message appears, click the [Apply] button.

Adding a printer

- 1 On the "Apple" menu, select "System Preferences".
- 2 Click the "Print & Fax" icon.
- 3 Click [+] in the Print & Fax window.
 - If available printers have already been set up, the Add Printer dialog box does not appear.
- 4 Click the [IP] button or the [IP Printer] button.
- 5 From "Protocol", select "LPD".
- 6 In "Address", enter the IP address of this machine.
 - After the printer driver is selected automatically, go to Step 8.
 - If an incorrect printer driver is selected, go to Step 7.
- 7 Select the desired printer driver manually.
 - When OS X 10.4 is used, select "KONICA MINOLTA" in "Print Using", and then select the printer driver of the desired model name from the list.
 - When OS X 10.5 is used, select the "Select a driver to use" from the "Print Using", and then select the printer driver of the desired model name from the list.
 - When OS X 10.6 is used, select "Select printer software" from the "Print Using", and then select the printer driver of the desired model name from the list that is displayed in another window.
 - In case of OS X 10.5/10.6, you can find the driver easily by inputting "KONICA MINOLTA" in the text box for search.
- 8 Click the [Add] button.

If the selected printer is registered in the "Print & Fax" list, the setting procedure is completed.

**Note**

If the Installable Options window appears, proceed to change the option settings as necessary. For details, refer to "Initializing the printer driver" on page 9-4.

For OS X 10.4, you can also add a printer by clicking [Add] in the Printer Setup Utility window.

Specifying the IPP settings**Specifying the TCP/IP setting for this machine**

Specify the IP address of this machine.

**Detail**

For details on the IPP settings of this machine, refer to the User manual – Network Administrator.

IPP setting for this machine

Enable IPP print in the IPP Setting screen of this machine.

**Detail**

For details on the IPP settings of this machine, refer to the User manual – Network Administrator.

Specifying the TCP/IP setting for the computer

Specify the TCP/IP setting for the Mac computer connected to this machine.

- 1 On the "Apple" menu, select "System Preferences".
- 2 Click the "Network" icon.
- 3 The Ethernet setting window appears.
 - For OS X 10.4, select "Built-in Ethernet", and then click the [Configure] button.
 - For OS X 10.5/10.6, select "Ethernet", and then click the [Advanced] button.

- 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 "This service has unsaved changes" message appears, click the [Apply] button.

Adding a printer

- 1 On the "Apple" menu, select "System Preferences".
- 2 Click the "Print & Fax" icon.
- 3 Click [+] in the Print & Fax window.
 - If available printers have already been set up, the Add Printer dialog box does not appear.
- 4 Click the [IP] button or the [IP Printer] button.
- 5 From "Protocol", select "IPP".
- 6 In "Address", enter the IP address of this machine. In "Queue", enter "ipp".
 - After the printer driver is selected automatically, go to Step 8.
 - If an incorrect printer driver is selected, go to Step 7.
- 7 Select the desired printer driver manually.
 - When OS X 10.4 is used, select "KONICA MINOLTA" in "Print Using", and then select the printer driver of the desired model name from the list.
 - When OS X 10.5 is used, select the "Select a driver to use" from the "Print Using", and then select the printer driver of the desired model name from the list.
 - When OS X 10.6 is used, select "Select printer software" from the "Print Using", and then select the printer driver of the desired model name from the list that is displayed in another window.
 - In case of OS X 10.5/10.6, you can find the driver easily by inputting "KONICA MINOLTA" in the text box for search.
- 8 Click the [Add] button.

If the selected printer is registered in the "Print & Fax" list, the setting procedure is completed.



Note

*If the Installable Options window appears, proceed to change the option settings as necessary. For details, refer to "Initializing the printer driver" on page 9-4.
For OS X 10.4, you can also add a printer by clicking [Add] in the Printer Setup Utility window.*

5.1.3 Selecting and connecting the printer (OS 10.2 and 10.3)

In OS 10.2/10.3, this machine can be connected with Rendezvous, AppleTalk, LPR (LPD), or IPP.

After specifying the network setting for this machine, selecting this machine as the printer in Printer Setup Utility or Print Center enables printing.

Specifying the Rendezvous settings

Specifying the Bonjour settings for this machine

Enable Bonjour in "Bonjour Setting", and then enter the Bonjour name.



Detail

For details on the Bonjour settings of this machine, refer to the User manual – Network Administrator.

Adding a printer

- 1 Select "HDD" - "Applications" - "Utilities" where the driver was installed, and then double-click "Printer Setup Utility" or "Print Center" to open it.
- 2 When the Add Printer dialog box appears, click the [Add] button. When the printer list appears, click the [Add] button.
 - If available printers have already been set up, the Add Printer dialog box does not appear.
- 3 Select "Rendezvous" for the connection method.
 - 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.The connected printers are detected.
- 4 From the "Name" list, select the desired model name.
- 5 Select "KONICA MINOLTA" in "Printer Model", select the desired model from the list of model names, and then click the [Add] button.

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

Specifying the AppleTalk settings

Specifying the AppleTalk settings for this machine

Enable AppleTalk in "AppleTalk Setting", and then enter the printer name.



Detail

For details on the AppleTalk settings of this machine, refer to the User manual – Network Administrator.

Specifying the AppleTalk settings for the computer

Specify the AppleTalk settings for the Mac computer connected to this machine.

- 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 top left of the dialog box.
 - When the "Apply configuration changes?" message appears, click the [Apply] button.

Adding a printer

- 1** Select "HDD" - "Applications" - "Utilities" where the driver was installed, and then double-click "Printer Setup Utility" or "Print Center" to open it.
- 2** When the Add Printer dialog box appears, click the [Add] button. When the printer list appears, click the [Add] button.
 - If available printers have already been set up, the Add Printer dialog box does not appear.
- 3** Select "AppleTalk" for the connection method, and then select the zone to which this machine is connected.
 - 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.The connected printers are detected.
- 4** From the "Name" list, select the desired model name.
- 5** Select "KONICA MINOLTA" in "Printer Model", select the desired model from the list of model names, and then click the [Add] button.

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.



Detail

For details on specifying the IP address of this machine, refer to the User manual – Network Administrator.

LPD setting for this machine

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



Detail

For details on the LPD settings of this machine, refer to the User manual – Network Administrator.

Specifying the TCP/IP setting for the computer

Specify the TCP/IP setting for the Mac computer connected to this machine.

- 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 Mac 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] button.

Adding a printer

- 1 Select "HDD" - "Applications" - "Utilities" where the driver was installed, and then double-click "Printer Setup Utility" or "Print Center" to open it.
- 2 When the Add Printer dialog box appears, click the [Add] button. When the printer list appears, click the [Add] button.
 - If available printers have already been set up, the Add Printer dialog box does not appear.
- 3 Select "IP Printing" for the connection method.
- 4 For OS 10.3, from "Printer Type", select "LPD/LPR".
- 5 In "Printer Address", enter the IP address of this machine.
- 6 Select "KONICA MINOLTA" in "Printer Model", select the desired model from the list of model names, and then click the [Add] button.

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.

**Detail**

For details on specifying the IP address of this machine, refer to the User manual – Network Administrator.

IPP setting for this machine

Enable IPP print in the IPP Setting screen of this machine.

**Detail**

For details on the IPP settings of this machine, refer to the User manual – Network Administrator.

Specifying the TCP/IP setting for the computer

Specify the TCP/IP setting for the Mac computer connected to this machine.

- 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 Mac 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] button.

Adding a printer

- 1** Select "HDD" - "Applications" - "Utilities" where the driver was installed, and then double-click "Printer Setup Utility" or "Print Center" to open it.
- 2** When the Add Printer dialog box appears, click the [Add] button. When the printer list appears, click the [Add] button.
 - If available printers have already been set up, the Add Printer dialog box does not appear.
- 3** Select "IP Printing" for the connection method.
- 4** For OS 10.3, from "Printer Type", select "Internet Printing Protocol".
- 5** In "Printer Address", enter the IP address of this machine.
 - Leave "Queue Name" blank.
- 6** Select "KONICA MINOLTA" in "Printer Model", select the desired model from the list of model names, and then click the [Add] button.

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

5.2 Mac OS 9.2

5.2.1 Installing the printer driver

After connected to a computer, this machine can be used as a printer by selecting a PostScript printer and by specifying the printer description (PPD) file.

First, copy the printer description (PPD) file to the Mac computer.

- 1 Insert the Driver DVD into the DVD drive of the computer.
- 2 Open the folder on the DVD that contains the desired printer driver.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language.
- 3 Select PPD file KONICAMINOLTA751UVxxx.ppd, and then copy it into the Printer Descriptions folder in "System Folder" - "Extensions" of "Hard Disk".

This completes the printer driver installation.

5.2.2 Selecting and connecting the printer

In OS 9, this machine can be connected with AppleTalk or LPR (LPD).

Specify the network settings for this machine, and then select the printer.

Specifying the AppleTalk settings

Specifying the AppleTalk settings for this machine

Enable AppleTalk in "AppleTalk Setting", and then enter the printer name.



Detail

For details on the AppleTalk settings of this machine, refer to the User manual – Network Administrator.

Specifying the AppleTalk settings for the computer

Specify the AppleTalk settings for the Mac computer connected to this machine.

- 1 On the "Apple" menu, select "Control Panel" - "AppleTalk".
- 2 From the "Connect via" drop-down list, select "Ethernet".
- 3 Click the close button at the upper left corner of the dialog box.
 - When the "Save changes to the current configuration?" message appears, click the [Save] button.

Selecting a printer

- 1 On the "Apple" menu, select "Chooser".
- 2 Make sure that "AppleTalk" is set to "Active", and then click the "LaserWriter" icon.
- 3 From the "Select a PostScript Printer" list, click the desired model name, and then click the [Create] button.

A window for selecting a PostScript printer description (PPD) file appears.
- 4 Select the applicable PPD file, and then click the [Select] or [Open] button.
 - If a different PPD file has already been selected, click the [Setup] button in step 3, and then click the [Select PPD] button from the window that is already displayed.

A window for specifying options appears.
- 5 Select options installed on this machine on the "Options Installed 1" and "Options Installed 2" windows.
- 6 Click the [OK] button.

The "selector" window appears again.
- 7 Close the "selector" window.

Specifying the LPR settings

Specifying the TCP/IP setting for this machine

Specify the IP address of this machine.



Detail

For details on specifying the IP address of this machine, refer to the User manual – Network Administrator.

LPD setting for this machine

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



Detail

For details on the LPD settings of this machine, refer to the User manual – Network Administrator.

Specifying the TCP/IP setting for the computer

Specify the TCP/IP setting for the Mac computer connected to this machine.

- 1** On the "Apple" menu, select "Control Panel" - "TCP/IP".
- 2** From the "Connect via" drop-down list, select "Ethernet".
- 3** Select "Configure" items according to the settings for the network to which the Mac computer is connected, and then specify the IP address and subnet mask.
- 4** Click the close button at the upper left corner of the dialog box.
 - When the "Save changes to the current configuration?" message appears, click the [Save] button.

Adding a printer

- 1** Select "HDD" - "Applications" - "Utilities", and then double-click "Desktop Printer Utility" to open it.
The New Desktop Printer window appears.
- 2** From "Printer", select "LaserWriter".
- 3** From "Create Desktop", select "Printer (LPR)".
The Untitled window appears.
- 4** Click the [Change] button for "PostScript™ Printer Description (PPD) File".
A window for selecting a PostScript printer description (PPD) file appears.
- 5** Select the applicable PPD file, and then click the [Select] button.
The Untitled window appears again.
- 6** Click the [Change] button for "LPR Printer Selection".
A window for entering the IP address appears.
- 7** In "Printer Address", enter the IP address of this machine, and then click the [OK] button.
The Untitled window appears again.
- 8** Click the [Create] button.
A window for saving the setting appears.
- 9** Enter a desktop printer name, and then click the [Save] button.
An icon for the LPR printer is created on the desktop.



Installation to use NetWare

6 Installation to use NetWare

6.1 NetWare

6.1.1 Network Settings

Use "NetWare Settings" of this machine to make "IPX Settings" and "NetWare Print Settings".



Detail

For details on the NetWare settings of this machine, refer to the User manual – Network Administrator.

6.1.2 Windows Client Setting

Install the printer driver using the Add Printer Wizard for an Window client who uses a printer.



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Reminder

When installing, administrator permissions are required.

- 1 Insert the Driver DVD into the DVD drive of the computer.
- 2 Open the Printers window or Printers and Faxes window.
- 3 Perform "Add a printer" or "Add Printer".
Add Printer Wizard starts.
- 4 In the port settings, browse the network, and specify the name of the created queue (or NDPS printer name).
- 5 From the printer model list, specify the desired folder on the DVD that contains the printer driver.
 - Select the specified folder according to the printer driver to be used, the operating system, and the language. Printer drivers that can be selected:
Windows 2000/XP/Server 2003: PCL driver, PS driver
Windows Vista/7/Server 2008: PCL driver, PS driver, XPS driver
Windows NT4.0: PCL driver
- 6 Follow the on-screen instructions to complete the installation.



Uninstalling the printer driver

7 Uninstalling the printer driver

7.1 Windows

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.

Manual uninstallation

- 1 Open the Printers window, Device and Printers window, or Printers and Faxes window.
- 2 Select the icon of the printer to be deleted.
- 3 Uninstall the printer driver.
 - In Windows 2000/XP/Server 2003/Vista/Server 2008, press the [Delete] key on the computer keyboard.
 - In Windows 7/Server 2008 R2, click "Remove Device" on the toolbar.
- 4 Follow the on-screen instructions.

When the driver has been deleted, the icon disappears from the Printers window, Device and Printers window, or the Printers and Faxes window.
For Windows NT 4.0, this completes the driver uninstallation.
For Windows 2000/XP/Vista/7/Sever 2003/Server 2008, delete the printer driver in "Server Properties".
- 5 Open "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".
 - In Windows 7/Server 2008 R2, select other printer and click [Print Server Properties] from the toolbar.
 - If the User Account Control window appears, click the [Continue] button.
- 6 Click the Driver tab.
- 7 Select the printer driver to be deleted from the "Installed printer drivers" list, and then click the [Remove] button.
 - For Windows 2000/XP/Server 2003, continue with step 9.
 - For Windows Vista/7/Server 2008, continue with step 8.
- 8 Select "Remove driver and driver package" on the deletion confirmation screen and then click the [OK] button.
- 9 Click the [Yes] button on the deletion confirmation screen.
 - For Windows Vista/7/Server 2008, when the deletion confirmation screen is additionally displayed, click the [Delete] button.
- 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"

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, PostScript Konica Minolta driver and fax driver, the model information of all drivers is deleted. If other drivers are remaining, do not delete it.

"C: "Delete "oem.inf" and "oem*.PNF" in "\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 corresponding 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.

7.2 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.

7.2.1 For Mac OS X

- 1 Open the Print & Fax (or Printer Setup Utility/Print Center) window.
 - Open the Print & Fax window from "System Preferences" in the "Apple Menu" (OS X 10.3/10.4/10.5/10.6).
 - Open the Printer Setup Utility/Print Center window from "Applications" - "Utilities" of "Hard Disk" (OS X 10.2/10.3/10.4).
- 2 Select the printer name to be deleted, and then click the [-] button (or the [Delete] button).

The selected printer is deleted.
- 3 Close the Print & Fax (or Printer Setup Utility/Print Center) window.
- 4 Drag the following file, which is located in "Library" - "Printers" - "PPDs" - "Contents" - "Resources" ("Resources" for OS X 10.5/10.6, "Resources" - "en.lproj" for OS X 10.2/10.3/10.4), to the "Trash" icon.
 - "KONICA MINOLTA 751.gz"
 - "KONICA MINOLTA 601.gz"
- 5 Delete the unnecessary files from "Library" - "Printers".
 - Drag the "751" folder, which is located in "Library" - "Printers" - "KONICA MINOLTA", to the "Trash" icon.
 - For Mac OS 10.2, drag all the "KONICA MINOLTA 751" folders, which are located in "Library" - "Printers" - "PPDPlugins", to the "Trash" icon.
- 6 For OS X 10.2/10.3/10.4/10.5, drag "bizhub 751_xxx.pkg", which is located in "Library" - "Receipts", to the "Trash" icon.
- 7 Restart the computer.

This completes the printer driver uninstallation.

7.2.2 For Mac OS 9.2

- 1 Drag the printer icon on the desktop to the "Trash" icon.
- 2 Drag PPD file "KONICA MINOLTA751UVxxx.ppd", which is located in "System Folder" - "Extensions" - "Printer Descriptions" of "Hard Disk", to the "Trash" icon.

The related printer driver files are deleted.
- 3 Restart the computer.

This completes the printer driver uninstallation.



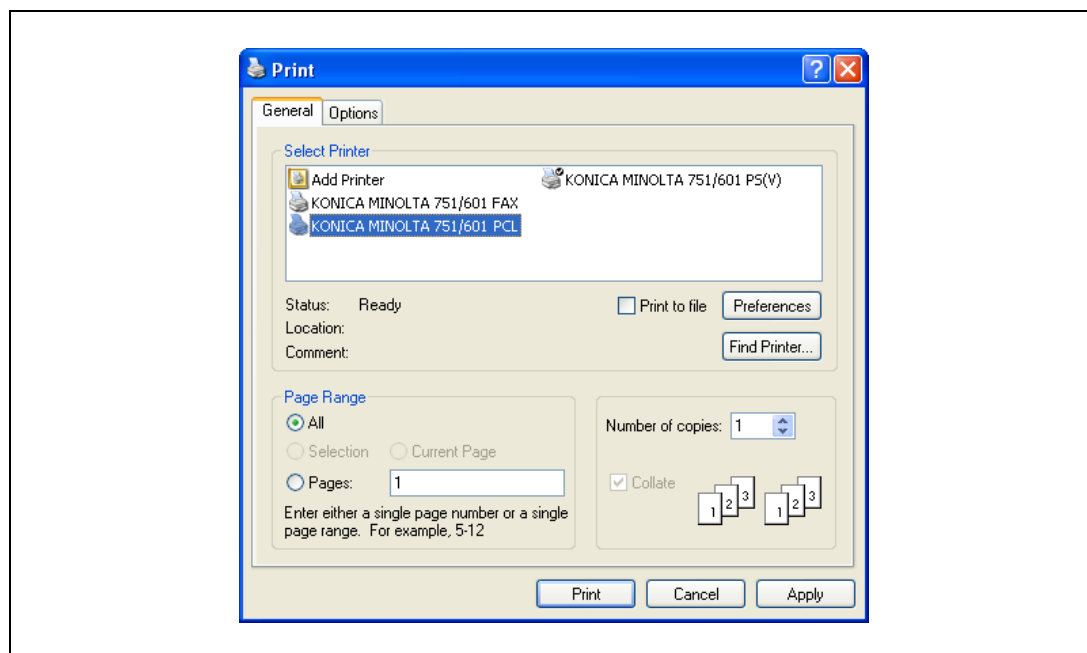
Print functions of the PCL/PS/XPS drivers for Windows

8 Print functions of the PCL/PS/XPS drivers for Windows

8.1 Printing operations

Print jobs are specified from the application software.

- 1 Open the data in the application, click the [File] button, and then click "Print" from the menu.
 - If the menu is not available, click the [Print] button.
- 2 Check that the printer name has been selected in "Printer Name" or "Select Printer".
 - If the printer is not selected, click to select the printer.



- The Print dialog box differs depending on the application.
- 3 Specify the print range and the number of copies to be printed.
 - 4 Click the [Properties] or the [Preferences] button to change the printer driver settings as necessary.
 - By clicking the [Properties] button or the [Preferences] button in the Print dialog box, you can specify the settings of each model in the printer driver dialog box that appears. For details, refer to "Parameter details" on page 8-9.
 - If the changed settings are not saved in the Print dialog box, the original settings are restored when the application is quit.
 - 5 Click the [Print] button.

The data indicator of this machine flashes.

 - When "Secure Print Only" is set to "On" in "Device Option" in the Configure tab, the Secure Print window is displayed (Step 6).
 - For details on the Configure tab, refer to "Common settings" on page 8-8.
 - For details on the secure print, refer to "Secure print" on page 11-7.
 - 6 Enter the ID and password of the document, and then click the [OK] button.

Data is sent and saved in the Secure Document User Box of this machine.

8.2 Initializing the printer driver

When you have installed the printer driver, you need to change the initialization condition such as options, user authentication and account track functions and enable functions of the machine from the printer driver.



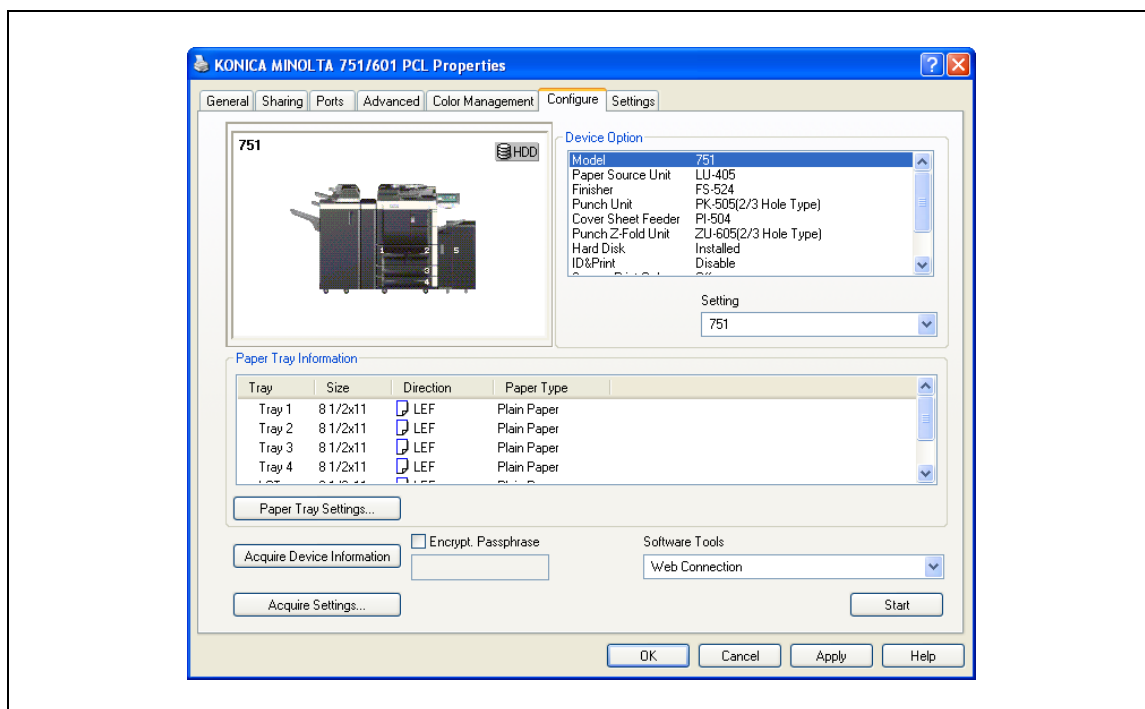
Reminder

If the model name, installed options, the User Authentication and Account Track functions are not specified on the Configure tab, the option functions cannot be used from the printer driver. When installing options, be sure to make the proper settings.

8.2.1 How to display the Properties screen

- 1** Open the Printers window, Devices and Printers window, or Printers and Faxes window.
 - For Windows 2000/NT 4.0, click the [Start] button, click "Settings", and then click "Printers".
 - For Windows XP/Server 2003, click the [Start] button, and then click "Printers and Faxes".
 - For Windows XP/Server 2003, if "Printers and Faxes" does not appear in the [Start] menu, open the "Control Panel" from the [Start] menu, select "Printers and Other Hardware", and then click "Printers and Faxes".
 - For Windows Vista/Server 2008, click the [Start] button to open the "Control Panel", select "Hardware and Sound", and then click "Printers".
 - For Windows 7/Server 2008 R2, click the [Start] - [Devices and Printers].
 - In Windows Vista/Server 2008, if Control Panel is displayed with Classic View, double-click "Printers".
 - In Windows 7/Server 2008 R2, if "Devices and Printers" is not found in the [Start] menu, open "Control Panel" from the [Start] menu, and select "Hardware and Sound" - "View device and printer".
- 2** Open "Printer Properties".
 - In Windows 2000/XP/Vista/Server 2003/Server 2008, right-click the icon of the installed printer, and click "Properties".
 - In Windows 7/Server 2008 R2, right-click the icon of the installed printer, and click [Properties].

8.2.2 Configure tab



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



Reminder

Be sure to select a model and options from the "Device Option".

Match the "Encrypt. Passphrase" to that specified by "Driver Password Encryption Setting" of this machine.

Item	Description
Device Option	Specifies the model name of this machine, options that are installed on this machine and the status of the User Authentication and Account Track functions. Specify the status of each item from the "Setting" dropdown list.
Paper Tray Information	Indicates the paper type specified for each tray. Click the [Paper Tray Settings] button to specify the settings for each paper tray.
Acquire Device Information	Communicates with this machine to read the status of the installed options.
Acquire Settings	Specifies the conditions of the connection destination to execute Acquire Device Information.
Encrypt. Passphrase	Enter the encryption passphrase when it is defined by the user through communication with this machine.
Software Tool	Starts up software tools such as PageScope Web Connection.



Note

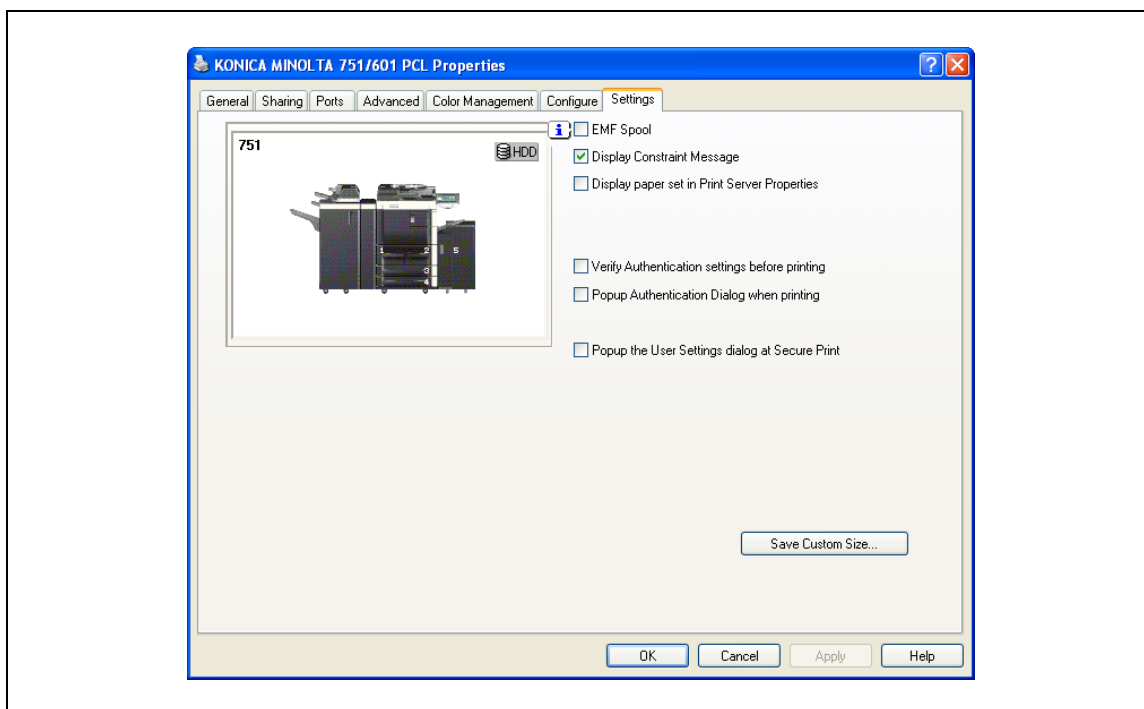
The [Acquire Device Information] function cannot be used unless you are connected and able to communicate with this machine.



Detail

For the procedure for specifying "Encrypt. Passphrase" to be defined by the user, refer to "Specifying a user-defined encryption passphrase" on page 11-37.

8.2.3 Settings tab



The default settings for displaying the confirmation messages or the dialog box for entering the authentication settings can be changed.

Item	Description
EMF Spool	Select this check box when meta file (EMF) spool is required for use in its own system environment.
Display Constraint Message	Displays a message when functions that cannot be specified at the same time were enabled from the printer driver.
Display paper set in Print Server Properties	Uses the paper that was added in [Server Properties] of the printer folder.
Verify Authentication settings before printing	Verifies the authentication settings for this machine before printing and displays a message if the settings are not compatible.
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.
Popup the User Settings dialog at Secure Print	Prompts user to enter the ID and password to be used for Secure Print.
Save Custom Size	Saves the custom paper sizes.



Note

"EMF Spool" and "Save Custom Size" are functions only for the PCL driver.

To use the EMF spool function with a PS/XPS driver, select "Enable advanced printing features" in the Advanced tab to enable the EMF spool.

In Windows 2000/XP/Server 2003, click the "File" menu, then "Server Properties". In Windows Vista/Server 2008, right-click on the area that has nothing displayed in the Printers window, click "Run as administrator" - "Server Properties". In Windows 7/Server 2008 R2, select the desired printer, and click "Print Server Properties" on the toolbar.

8.2.4 Registration of the default settings

The settings specified for the functions of this machine when printing can only be applied while using the application. When the application is quit, the settings return to their default settings.

When registering the settings, change the printer driver basic settings (default settings).

- 1 Open the Printers window, Devices and Printers window, or Printers and Faxes window.
 - For Windows 2000/NT 4.0, click the [Start] button, click "Settings", and then click "Printers".
 - For Windows XP/Server 2003, click the [Start] button, and then click "Printers and Faxes".
 - For Windows XP/Server 2003, if "Printers and Faxes" does not appear in the [Start] menu, open the "Control Panel" from the [Start] menu, select "Printers and Other Hardware", and then click "Printers and Faxes".
 - For Windows Vista/Server 2008, click the [Start] button to open the "Control Panel", select "Hardware and Sound", and then click "Printers".
 - For Windows 7/Server 2008 R2, click the [Start] - [Devices and Printers].
 - In Windows Vista/Server 2008, if Control Panel is displayed with Classic View, double-click "Printers".
 - In Windows 7/Server 2008 R2, if "Devices and Printers" is not found in the [Start] menu, open "Control Panel" from the [Start] menu, and select "Hardware and Sound" - "View device and printer".
- 2 Right-click the icon of the installed printer, and then click "Printing Preferences".
 - For Windows NT 4.0, right-click the icon of the installed printer, and then click "Document Defaults". The Printer Driver Preference dialog box appears.
- 3 Change the settings of the function, and then click the [OK] button to exit from the function.

The changed settings are applicable when the printer is used by all of the application software.



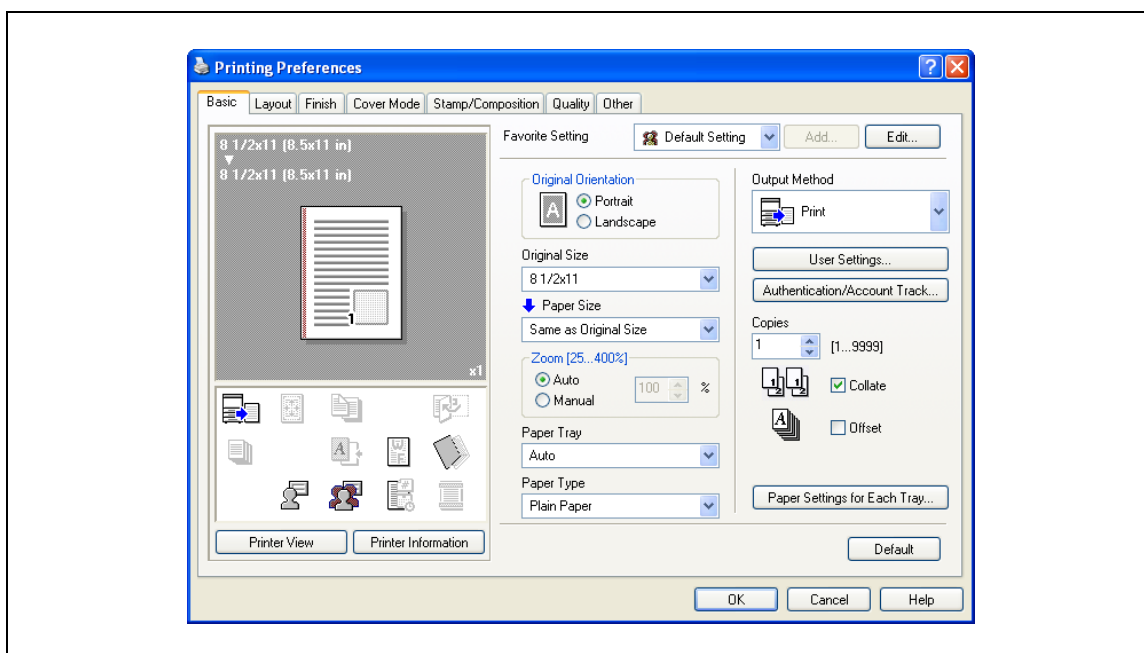
Detail

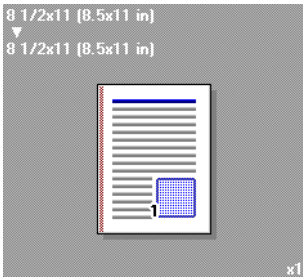

For the function and settings of the printer driver, refer to "Parameter details" on page 8-9.

The printer driver has the function to save the setting as "Favorite Setting". For details, refer to "Common settings" on page 8-8.

8.3 Common settings

The following describes the common settings and buttons that are displayed on all tabs.



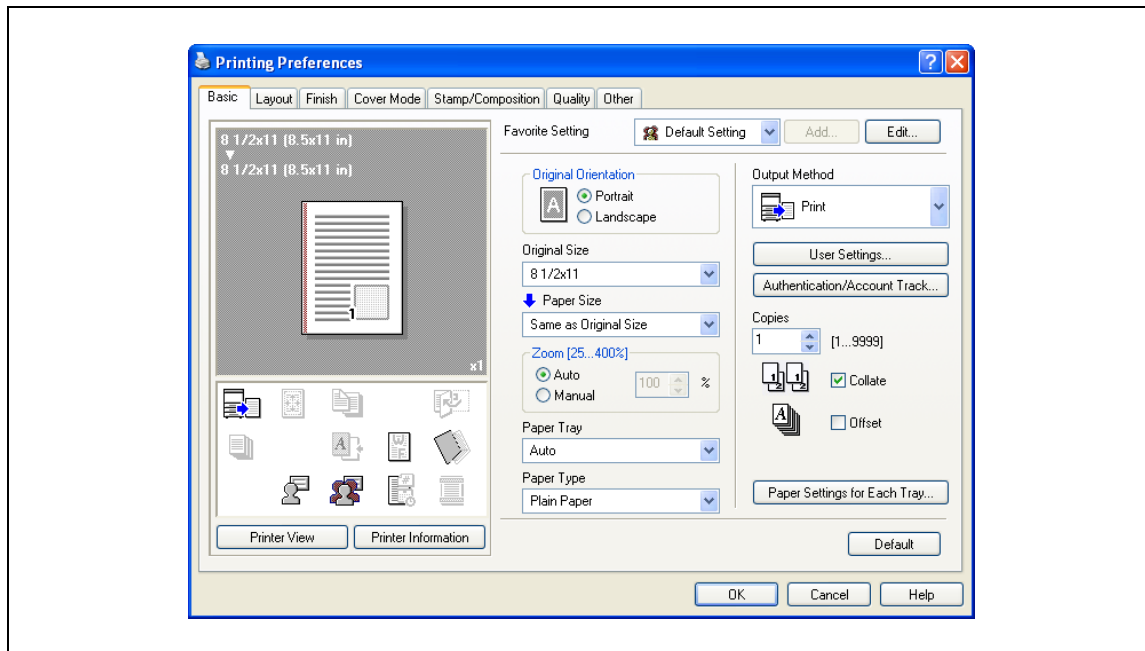
Item	Description
OK	Click this button to close the dialog box and apply any settings that have been changed.
Cancel	Click this button to cancel any settings that have been changed and close the dialog box.
Help	Click this button to display the help for each item on the currently displayed dialog box.
Add (Favorite Setting)	Click this button to save the current settings and to view them at a later time.
Edit (Favorite Setting)	Click this button to change the saved settings.
Default	Click this button to return the default setting.
View	<p>When the "Paper View" button is selected, a preview of the page layout as specified in the current settings is displayed and a preview image of the print job can be checked. When the "Printer View" button is selected, a printer figure is displayed showing any options, such as the paper tray, that are installed on this machine.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Paper</p> </div> <div style="text-align: center;"> <p>751</p>  <p>Printer</p> </div> </div>

8.4 Parameter details

The print setting screen is the screen to set printer driver functions.

Click the [Properties] or [Preferences] button on the Print dialog box, or right-click the printer icon of the "Printers" window, "Devices and Printers" window, or the "Printers and Faxes" window, and then specify "Print Setting" ("Document Defaults" for Windows NT 4.0) to open it.

8.4.1 Basic tab



Function name	Option	Description
Original Orientation	Portrait, Landscape	Specifies the orientation of the original.
Original Size	Paper size registered as the standard paper size and non-standard paper size.	Specifies the size of the original document.
	Custom Size	Register the size.
Paper Size	Paper size registered as the standard paper size and non-standard paper size available on this machine.	Specifies the output paper size. The original is automatically enlarged or reduced to the size specified here when it differs from the "Original Size" setting and "Zoom" is set to "Auto".
	Custom Size	Custom sizes can be registered.
Zoom	25 to 400%	Specifies the enlargement and reduction ratio.
Paper Tray	Auto, Tray1-4, LCT, Bypass Tray	Selects the paper tray to be used. The selectable items differ depending on the options that are installed.
Paper Type	Paper type available on this machine.	Selects the paper type for printing. Can be changed only when the paper tray is set to "Auto". When the paper tray is not set to "Auto", the paper type registered by "Paper Settings for Each Tray" is effective.

Function name	Option	Description
Output Method	Print	Prints immediately.
	Secure Print	Saves the document to be printed in "Secure Print User Box" of this machine. When printing, entering the ID and password is required in the control panel of this machine. Select this option when printing highly confidential documents.
	Save in User Box	Saves the document to be printed in the user box on this machine.
	Save in User Box/Print	Saves the document in a box and prints at the same time.
	Proof Print	After one copy of the document has been printed, this machine stops printing temporarily. Select this option to avoid misprinting a large volume of print jobs.
	ID & Print	Saves the document to be printed in "ID & Print User Box" of this machine. When printing, user authentication must be performed via the control panel of this machine.
[User Settings]	—	Specifies the ID and password, or the file name and box number when performing "Secure Print" or "Save in User Box".
[Authentication/Account Track]	—	Specifies the user name and password when performing user authentication, and the department name and password when performing account track on this machine.
Copies	1 to 9999	Specify the number of copies to be printed.
Collate	ON/OFF	Specifies whether to print multiple copies by collating them.
Offset	ON/OFF	When printing multiple copies, shifts the output position of each set.
[Paper Settings for Each Tray]	Paper Type Setting	Selects the paper tray to be specified. The selectable items differ depending on the installed options.
	Paper Type	Selects the type of paper to be loaded onto the paper tray.



Note

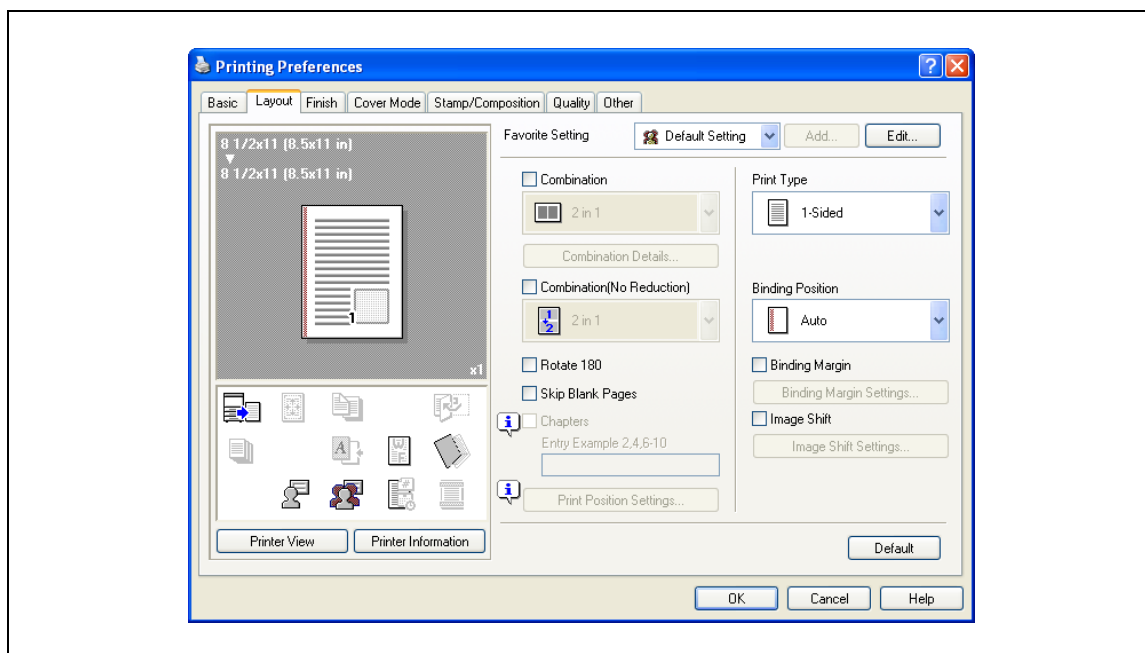
To print on paper sizes other than the standard sizes, be sure to set the custom paper sizes first. You can register a non-standard size by selecting "Custom Size" from the paper size option or original size option.



Detail

For details on Output Method, refer to "Function detail description" on page 11-3.

8.4.2 Layout tab



Function name	Option	Description
Combination	2 in 1, 4 in 1, 6 in 1, 9 in 1, 16 in 1, 2 × 2, 3 × 3, 4 × 4	Prints multiple pages on one page, or prints one sheet of an original document divided on multiple pages. [Combination Details] allows you to specify the page order and the presence of the border frame.
[Combination Details]	Combination	Selects the combination conditions.
	Layout Order	Specifies the layout order. The layout order can be specified when N × N is specified in "Combination".
	Border	Specifies the presence and type of border lines. The layout order can be specified when N × N is specified in "Combination".
	Overlap width line	Specifies the presence of a poster mode overlap. You can specify it when N in N is specified in "Combination".
Combination (No Reduction)	2 in 1, 2 Repeat, 2 Repeat Reversal	Specifies two consecutive pages or one page and its copy (two pages in total) to be printed collectively on a sheet of paper. Paper twice as large as that specified in [Paper Size] is used for printing.
Rotate 180	ON/OFF	Rotates 180° to print.
Skip Blank Pages	ON/OFF	Does not print blank pages in the data.
Chapters	ON/OFF	Specifies the page to be printed on the front side. You can specify it when the print type is "2-Sided", "Booklet" or "Booklet (No Reduction)".
Entry Example	—	Specifies the page to be printed on the front side when "Chapters" is ON.
Print Type	1-Sided, 2-Sided, Booklet, Booklet (No Reduction)	Specifies duplex printing and booklet printing. Two pages are printed on both sides at a time with, for [Booklet], the original reduced to the size half as large as the paper size, and for [Booklet (No Reduction)], the original left as it is with no reduction using the paper twice as large as the original size. Folding the paper into two at the center will result in the order of pages as seen with a book.
Binding Position	Auto, Left Bind, Right Bind, Top Bind	Specifies the binding position.
Binding Margin	ON/OFF	Specifies the binding margin. Click the [Binding Margin Settings] button to specify the margin values.

Function name	Option	Description
[Binding Margin Settings]	Shift Mode	Selects how to process the image to prepare the binding margin.
	Front Side/Back Side	Specifies the binding margin values. For 2-sided printing, clearing the "Same Value for Front and Back Sides" check box allows you to set different values between the front and back sides.
	Units	Selects the measurement unit that specifies the size.
Image Shift	ON/OFF	Prints by shifting the entire print image. Click the [Image Shift Settings] button to specify the image shift values.
[Image Shift Settings]	Units	Selects the measurement unit that specifies the size.
	Front Side/Back Side	Specifies the shift direction and values. For 2-sided printing, clearing the "Same Value for Front and Back Sides" check box allows you to set different values between the front and back sides.



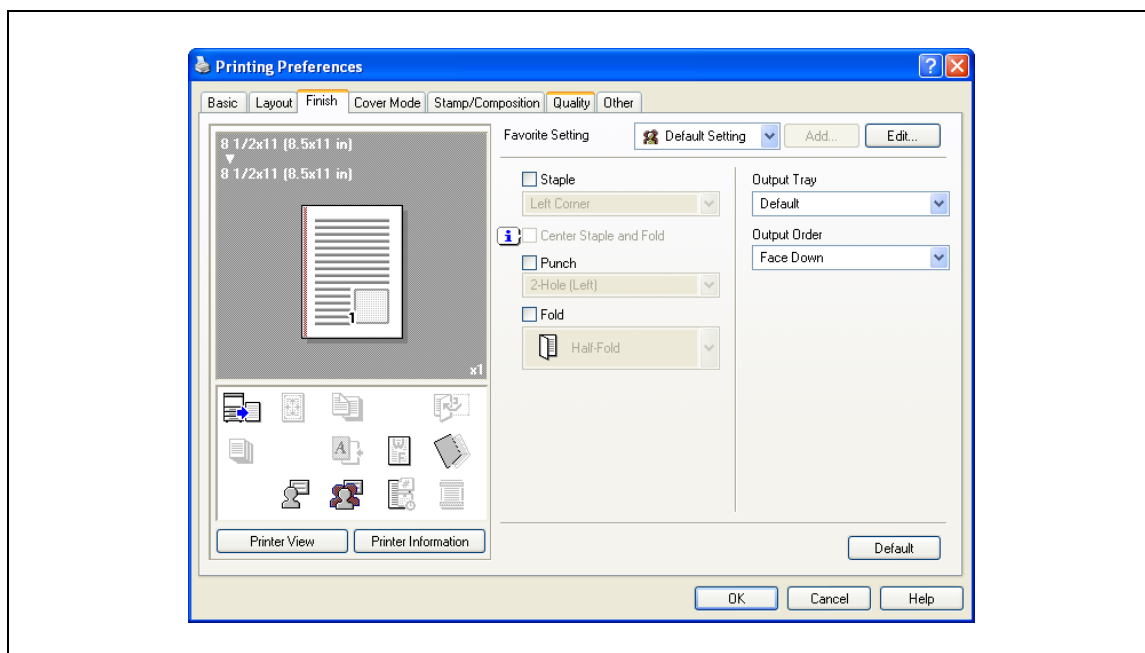
Note

"Combination" provides options "2 × 2, 3 × 3, 4 × 4" to print a sheet of document into multiple sheets of paper. The function is only for the PCL driver.

The "Skip Blank Pages" function is only for the PCL/XPS driver.

The positions of binding margins vary according to the "Binding Position" setting.

8.4.3 Finish tab



Function name	Option	Description
Staple	ON/OFF	Specifies stapling. From the drop-down list, specify the number of staples and the stapling position.
Center Staple and Fold	ON/OFF	Specifies to saddle stitch a printed document.
Punch	ON/OFF	Specifies hole punching. From the drop-down list, specify the number of punches and the position.
Fold	ON/OFF	Specifies folding.
Output Tray	Default, Tray1-3, Bin 5-6	Specifies the tray where to output the printed pages. The selectable items differ depending on the options that are installed.
Output Order	Face Down, Face Up	Specifies output paper to be facing up or facing down. The printed side is to be facing down when output if "Face Down" is specified, or facing up if Face Up is specified.

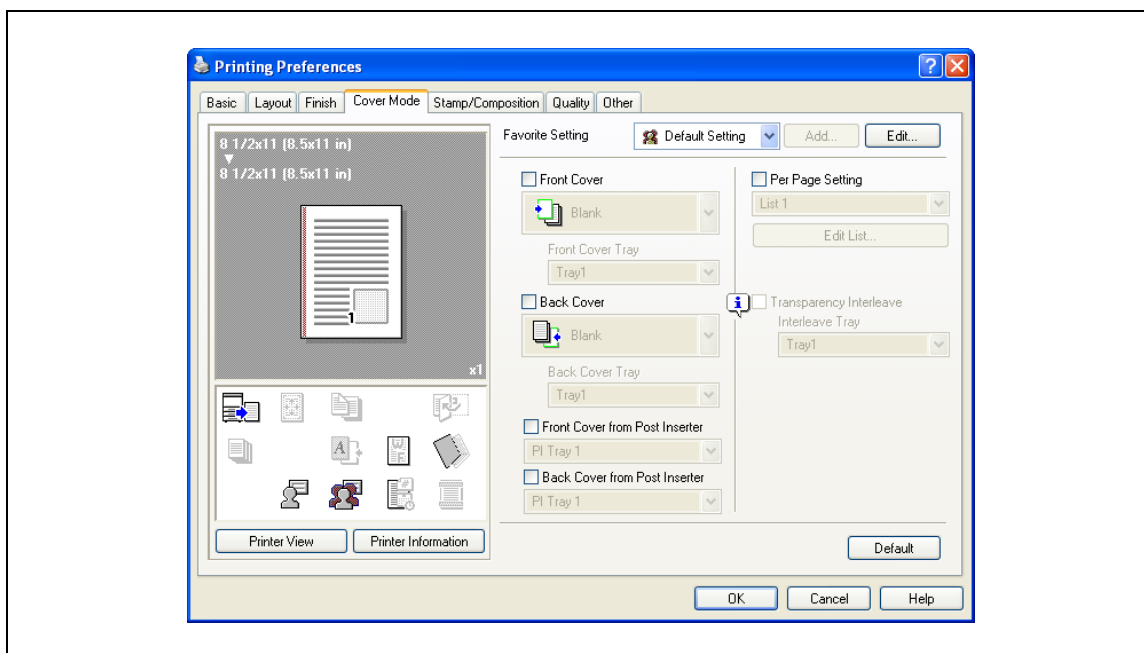


Note

"Staple", "Center Staple and Fold", and "Fold" functions are available only if the optional finisher is installed.

The "Punch" function is available only when the punch kit is installed on the optional finisher.

8.4.4 Cover Mode tab



Function name	Option	Description
Front Cover	ON/OFF, Blank/Print	Attaches a front cover page. You can specify it when "Auto" is not selected for the paper tray.
Front Cover Tray	Tray1-4, LCT, Bypass Tray	Selects the paper tray for the cover. The selectable items differ depending on the options that are installed.
Back Cover	ON/OFF, Blank/Print	Attaches a back cover page. You can specify it when "Auto" is not selected for the paper tray.
Back Cover Tray	Tray1-4, LCT, Bypass Tray	Selects the paper tray for the back cover. The selectable items differ depending on the options that are installed.
Front Cover from Post Insert	ON/OFF	Prints the document with a front cover attached from the post inserter. The cover paper is fed from the selected PI tray.
Back Cover from Post Insert	ON/OFF	Prints the document with a back cover attached from the post inserter. The cover paper is fed from the selected PI tray.
Per Page Setting	ON/OFF	Inserts paper between pages and switches the paper and tray for each page. [Edit List] allows you to create a list by setting conditions by page.

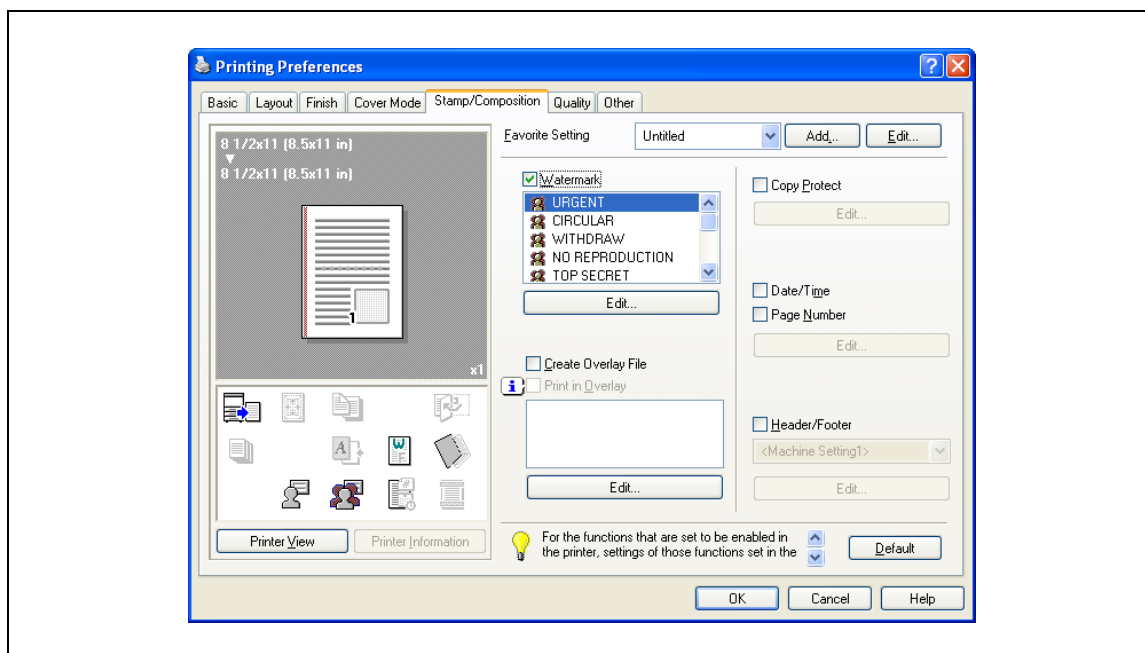
Function name	Option	Description
[Edit List]	List Name	Selects the name of the list to be edited. The settings are listed.
	[Edit List Name..]	Renames a list.
	[Up]/[Down]	Moves the selected condition row up or down. Move the rows so that the page numbers are arranged in ascending order.
	[Add]	Adds a condition. Conditions are specified in "Add/Delete".
	[Delete]	Deletes the selected condition row.
	[Tab Paper Settings]	Specifies the tab paper shape and other setting items when printing on tab papers.
	Page Number	Specifies the page numbers. To specify multiple pages, separate each page number with a comma or specify the range using a hyphen.
	Print Type	Specifies the print type from the "Change Setting" drop-down list.
	Tab Paper	Specifies whether or not tab paper is used from the "Change Setting" drop-down list.
	Paper Tray	Specifies the paper tray used for printing from the "Change Setting" drop-down list.
	Staple	Specifies the staple settings from the "Change Setting" drop-down list.
	Tab Position	Selects the tab position when printing on tab paper.
	Text on Tab	Specifies the text to print on the tab of the tab paper. Up to three lines of text can be entered.
	[Tab Text Details]	Specifies the detailed settings for the tab text of the tab paper.
Transparency Interleave	ON/OFF, Blank	Outputs and inserts interleaves when printing overhead projector transparencies. You can specify it when "Transparency" is selected for the paper type.
Interleave Tray	Tray1-4, LCT	Selects the paper tray for the transparency interleaves. The selectable items differ depending on the options that are installed.



Note

The "Front Cover from Post Inserter" and "Back Cover from Post Inserter" functions are available only if the optional post inserter is installed.

8.4.5 Stamp/Composition tab



Function name	Option	Description
Watermark	ON/OFF	Prints a watermark (text stamp) on the page being printed. [Edit] allows you to add, change and delete Watermarks.
[Edit]	—	For details, refer to "Editing watermark" on page 8-17.
Create Overlay File	ON/OFF	Create overlay data by checking this to print the original.
Print in Overlay	ON/OFF	Prints an original document on top of an overlay data that was created separately. [Edit] allows you to change the overlay printing method.
[Edit]	[Browse Files..]	Loads an overlay file.
	[Delete]	Deletes the selected overlay.
	Pages	Specifies the pages to be printed.
	Pattern Overwrite	Specifies the sequence for printing the overlay on top of the original document.
Copy Protect	ON/OFF	Select this check box to print a special pattern to prevent copying. Click [Edit] to specify items to be printed, positions and composition method.
[Edit]	—	For details, refer to "Editing copy protect" on page 8-18.
Date/Time	ON/OFF	You can print the date and time on a document. [Edit] allows you to specify items, pages and positions to be printed.
Page Number	ON/OFF	Prints the page number. [Edit] allows you to specify items, pages and positions to be printed.
[Edit]	—	For details, refer to "Editing date/time and page number" on page 8-20.
Header/Footer	Printer setting 1-20	Print the header and footer. Select header/footer information from the list of the printer setting. [Edit] allows you to specify items and pages to be printed.

Function name	Option	Description
[Edit]	Distribution Control Number	Prints the number of copies in the header and footer when printing multiple copies.
	[Edit]	Specifies the distribution control number conditions.
	Pages to Print	Specifies the pages to be printed.
	Header Position	Specify the position for printing the Header.
	Footer Position	Specify the position for printing the Footer.

**Note**

For Windows Server 2003/Vista/7/Server 2008/Server 2008 R2 64bit editions, "Watermark" cannot be selected with any of the following functions at the same time.

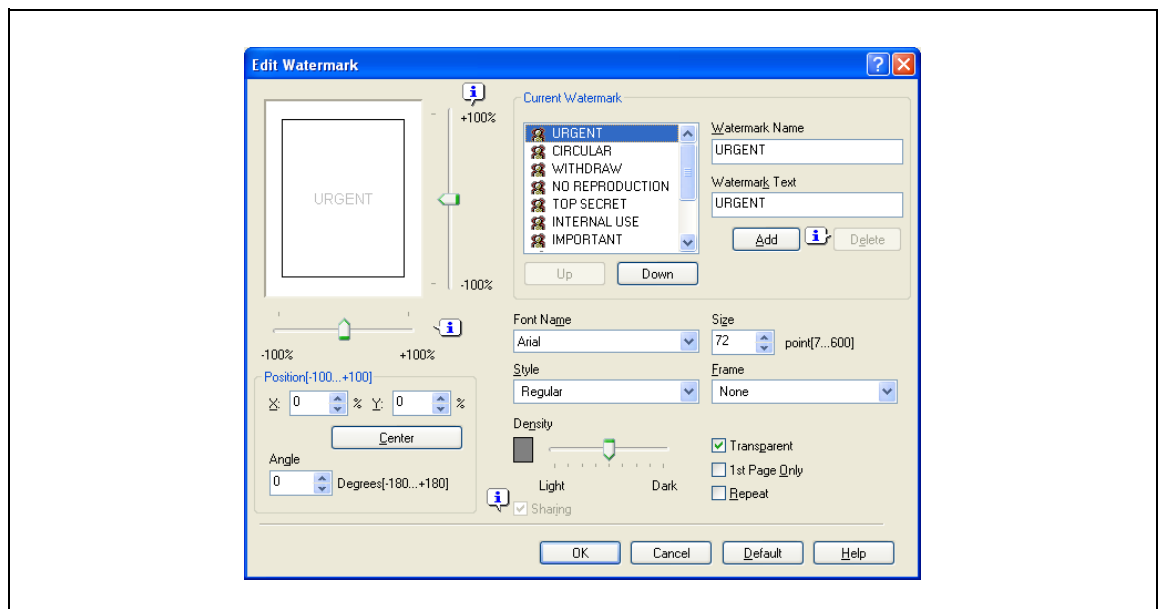
[User Authentication]

[Account Track]

[Per Page Setting]

[Verify Authentication settings before printing]

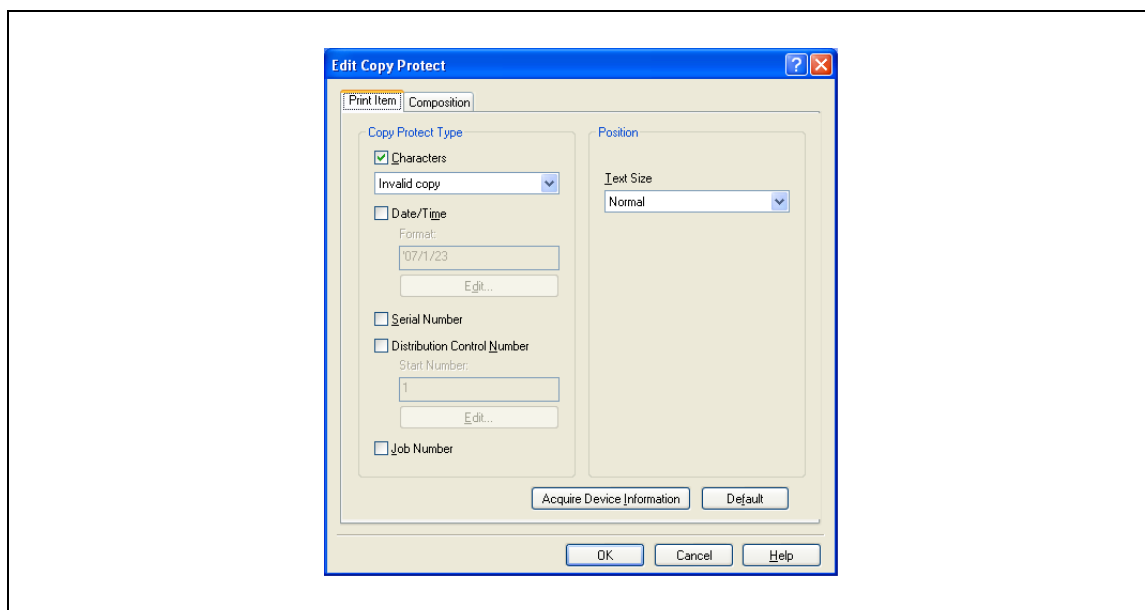
[Popup Authentication Dialog when printing]

Editing watermark

Item	Description
Watermark Name	Enter the name of the watermark.
Watermark Text	Enter the text to be printed as the watermark.
[Add]	Click to create a new watermark.
[Delete]	Click to delete the selected watermark.
Position	Specifies the vertical and horizontal positions. The watermark position can also be specified by using the horizontal and vertical sliders in the dialog box.
Angle	Specifies the watermark print angle.
Font Name	Specifies the font.
Size	Specifies the size.
Style	Specifies the font style.
Frame	Specifies the frame style.
Density	Specifies the density.
Transparent	Prints the watermark as a transparent image.
1st Page Only	Prints the watermark on the first page only.

Item	Description
Repeat	Prints the watermark repeatedly on a single page.
Sharing	Specifies whether to register the watermark as public or private.

Editing copy protect

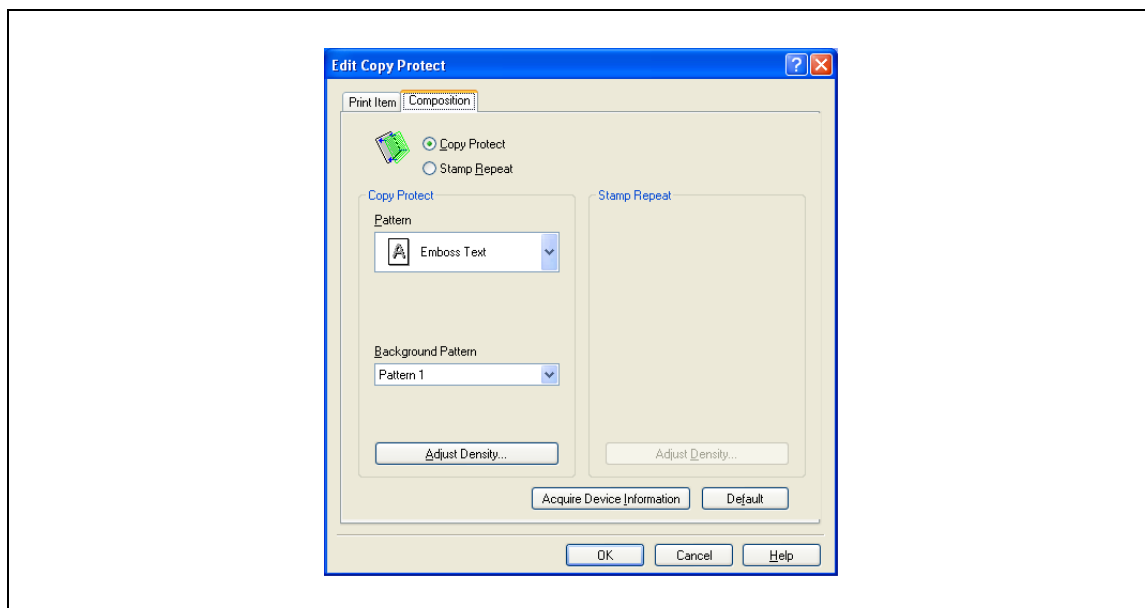


Item	Description
Characters	Embeds the selected character string in a pattern. A preregistered character string (common stamp) or a character string registered on this machine (registered stamp) can be specified.
Date/Time	Embeds the selected date and time in a pattern. By clicking the [Edit] button under "Format", you can specify the display type or the time format.
Serial Number	Embeds the serial number of this machine in a pattern.
Distribution Control Number	Embeds the copy number in a pattern when printing multiple copies. By clicking the [Edit] button under "Start Number", you can specify the start number or the display type.
Job Number	Embeds the print job number in a pattern for documents that are automatically paginated.
Position	Select the format for the pattern of Copy Protect to compose.
Text Size	Specifies the text size of a pattern.
[Acquire Device Information]	Communicates with this machine to read the copy protect settings of the machine.



Note

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



Item	Description
Copy Protect	Specify the effect when the pattern is composed to the document like the background in an unostentatious manner. The effect is that the hidden pattern appears at an unauthorized copy operation.
Stamp Repeat	Prints a text pattern.
The following settings are available when "Copy Protect" is selected.	
Pattern	Specifies the embedding method of a pattern.
Background Pattern	Specifies the pattern background.
[Adjust Density]	Specify the density or contrast of a pattern.
The following settings are available when "Stamp Repeat" is selected.	
[Adjust Density]	Specify the density or contrast of a pattern.

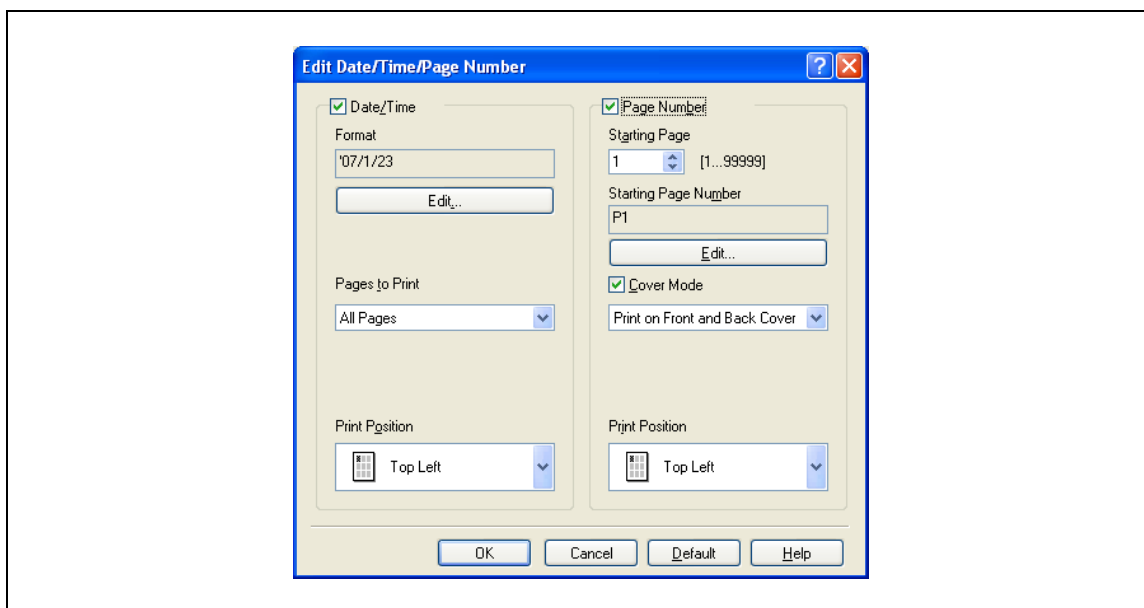


Note

"Copy Protect" and "Stamp Repeat" cannot be selected at the same time.

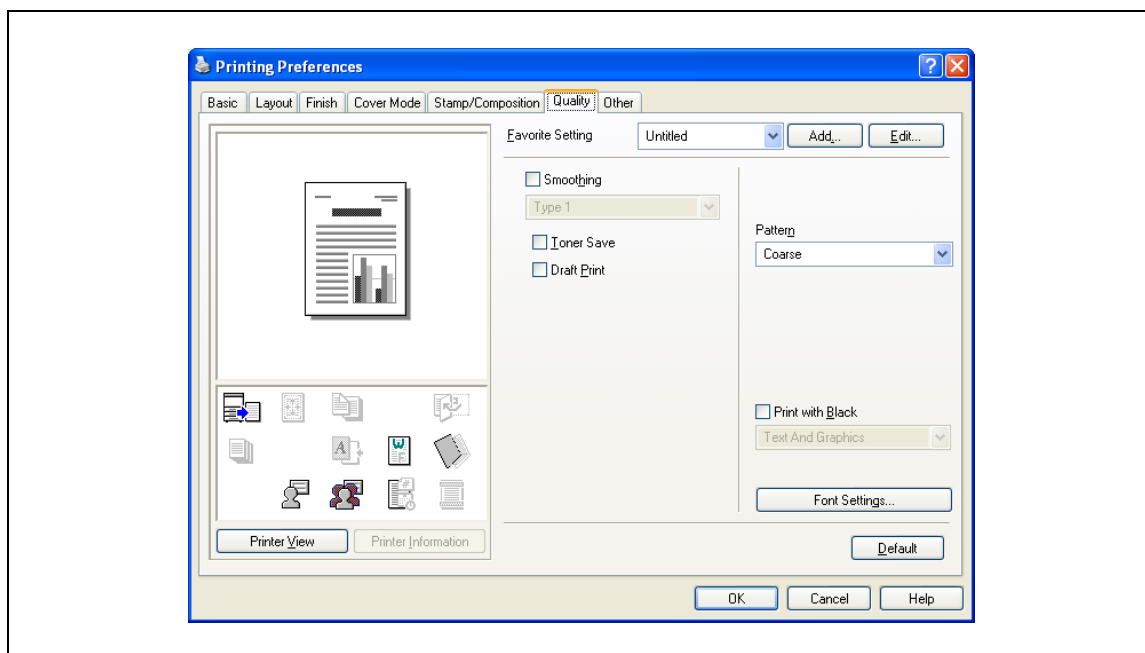
Different setting items are available for "Copy Protect" and "Stamp Repeat".

Editing date/time and page number



Item	Description
Format	Displays the format for the date and time to be printed. The display type or the time format can be specified by clicking the [Edit] button.
Pages to Print	Specifies the pages to print the date and time.
Print Position	Specifies the print position.
Starting Page	Specifies the page to start printing the page number.
Starting Page Number	Specifies the start number for printing the page number.
Cover Mode	If cover pages are attached, specifies whether to print the page number on the front cover page or the back cover page.
Print Position	Specifies the print position.

8.4.6 Quality tab



Function name	Option	Description
Smoothing	ON/OFF, Type1 - 3	The letters and graphics to be printed are printed smoothly. The Type 3 is best suited for the delicate curved section.
Toner Save	ON/OFF	Controls the print density and saves the toner consumption.
Draft Print	ON/OFF	Print thinly for a draft.
Pattern	Fine, Coarse	Specifies the graphic pattern details.
Print with Black	ON/OFF, Text only, Text And Graphics/All	Make arrangements so that the colored characters, lines, and graphics of the CAD drawing are not printed thinly.
Font Settings	—	Selects whether to use TrueType fonts or the printer fonts when printing. Selects whether the fonts are downloaded to the printer as bitmap or outline.

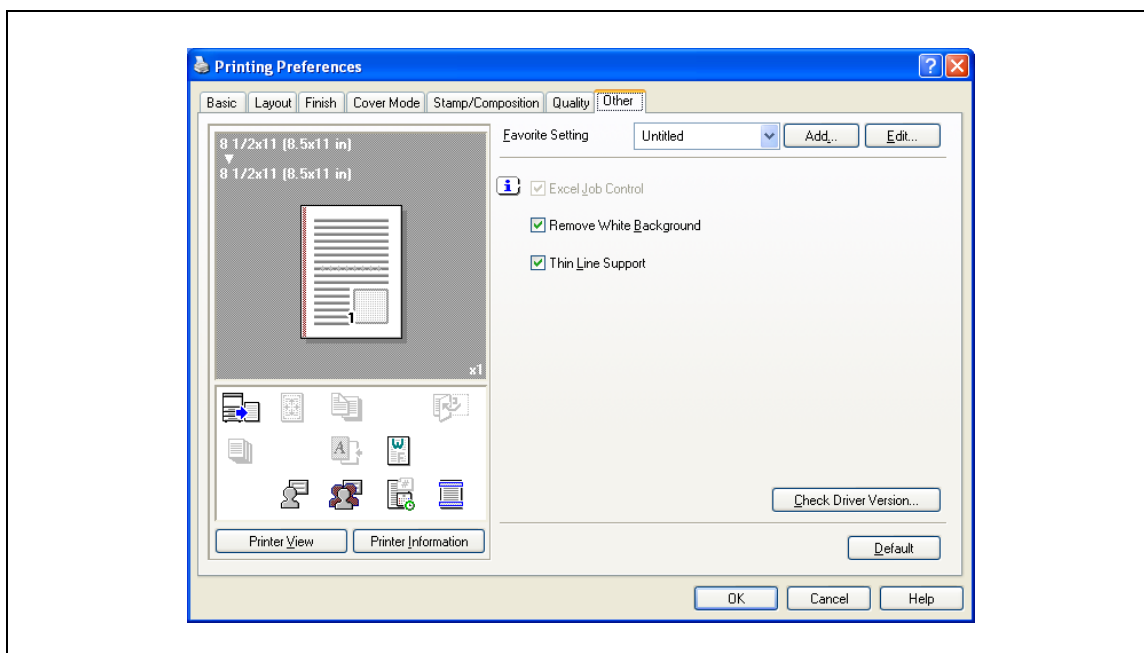


Note

The "Pattern" functions is only for the PCL/XPS driver.

The "Font Settings" functions is only for the PCL/PS driver.

8.4.7 Other tab



Function name	Option	Description
Excel Job Control	ON/OFF	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.
Remove White Background	ON/OFF	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.
Thin Line Support	ON/OFF	Print the extra-fine lines of the document.
Check Driver Version	—	Displays the printer driver version information.



Note

"Remove White Background" function is only for the PCL driver and XPS driver.

"Thin Line Support" function is only for the PCL driver.

"Excel Job Control" and "Remove White Background" settings are not available for Windows XP Professional, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7 and Windows Server 2008 R2 (All 64bit editions).

"Excel Job Control" can be changed only when the printer driver setting dialog is displayed in the "Printers" window, the "Devices and Printers" window, or the "Printers and Faxes" window.



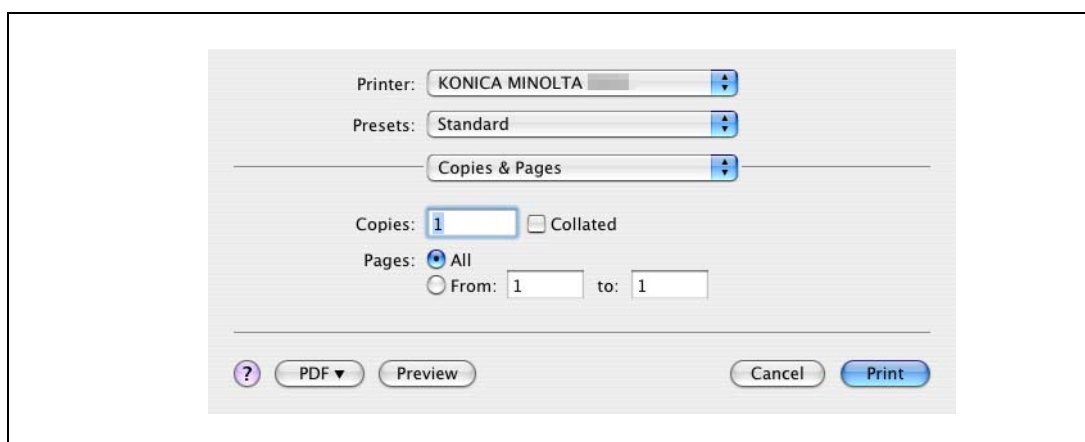
Print function of Mac OS X

9 Print function of Mac OS X

9.1 Printing operations

Print jobs are specified from the application software.

- 1 Open the data in the application, click the [File] button, and then click "Print" from the menu.
 - If the menu is not available, click the [Print] button.
 The Print dialog box appears.
- 2 Check that an appropriate printer name has been selected by the "Printer".
 - If the selected printer is not appropriate, select an appropriate printer.
 - If the printer does not appear, select the printer with [Printer Setup Utility] or [Print Center]. For details, see "Selecting and connecting the printer (OS 10.4/10.5/10.6)" on page 5-4, and "Selecting and connecting the printer (OS 10.2 and 10.3)" on page 5-9.
 - The Print dialog box differs depending on the application.



- 3 Specify the print range and the number of copies to print.
 - When you change the "Copies & Pages" menu, another setting dialog box of the printer driver appears and allows you to specify various functions. For details, refer to "Parameter details" on page 9-8.
- 4 Change the setting dialog box to change the printer driver settings as necessary.
- 5 Click the [Print] button.

The data indicator of this machine flashes.

 - When the "Secure Print Only" check box is selected in "Installable Options", the "Secure Print" window is displayed (Step 6).
 - For the details on "Installable Options", refer to "Options" on page 9-4.
 - For details on the secure print, refer to "Secure print" on page 11-7.
- 6 Enter the ID and password of the document, and then click the OK button.

Data is sent and saved in the Secure Document User Box of this machine.



Note

The printer driver setting changed on the Print dialog box is not saved and the original settings are restored when the application is quit.

9.2 Initializing the printer driver

When you have installed the printer driver, you need to change the initialization condition such as options before daily printing and enable functions of this machine from the printer driver.

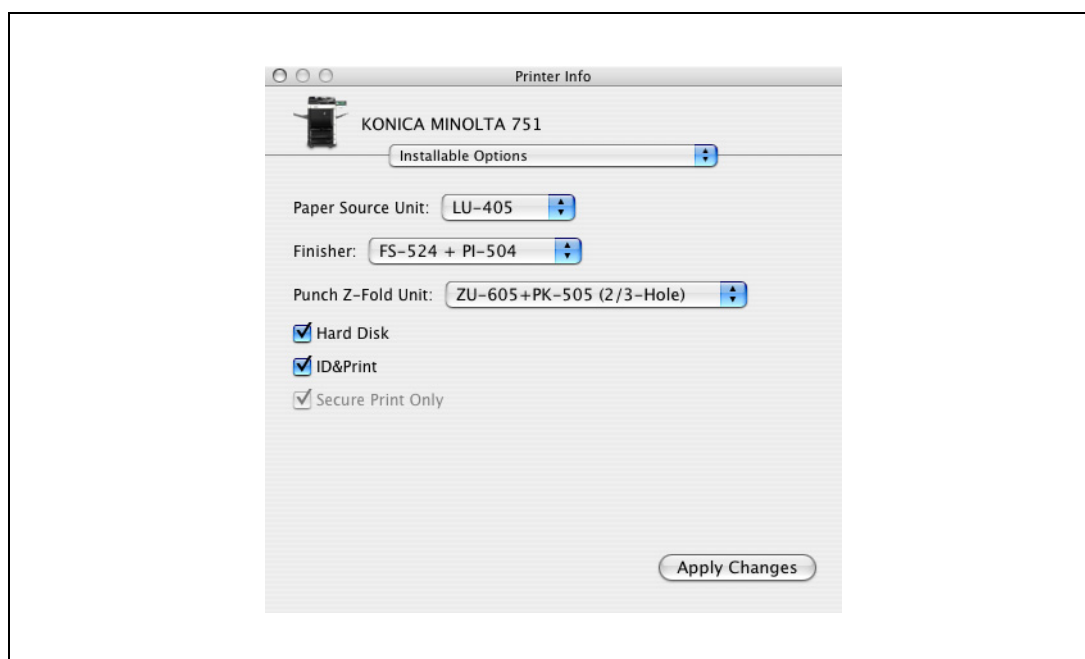


Reminder

If the model name and installed options are not specified on the Printer Info dialog box, the option functions cannot be used from the printer driver. When installing options, be sure to make the proper settings.

9.2.1 Options

- 1 Open the "Print & Fax" (or "Printer Setup Utility"/"Print Center") window.
 - The "Print & Fax" window can be opened from the "System Preferences" in the "Apple" menu (OS X 10.4/10.5/10.6).
 - The "Printer Setup Utility"/"Print Center" window can be opened from "HDD" - "Applications" - "Utilities" (OS X 10.2/10.3).
- 2 Display the "Printer Info" window.
 - For the "Print & Fax" window, click [Option & Supplies] (OS X 10.5/10.6) or [Printer Setup] (OS X 10.4).
 - For the "Printer Setup Utility"/"Print Center" window, select "Show Info" of the "Printer" menu.
- 3 Display the "Installable Options" window.
 - For Mac OS X 10.5/10.6, click [Driver].
 - In OS X 10.2/10.3/10.4, select "Installable Options".
- 4 Select the options that are installed on this machine.



- 5 Click the [OK] button or the [Apply Changes] button, and then close the "Printer Info" dialog box.

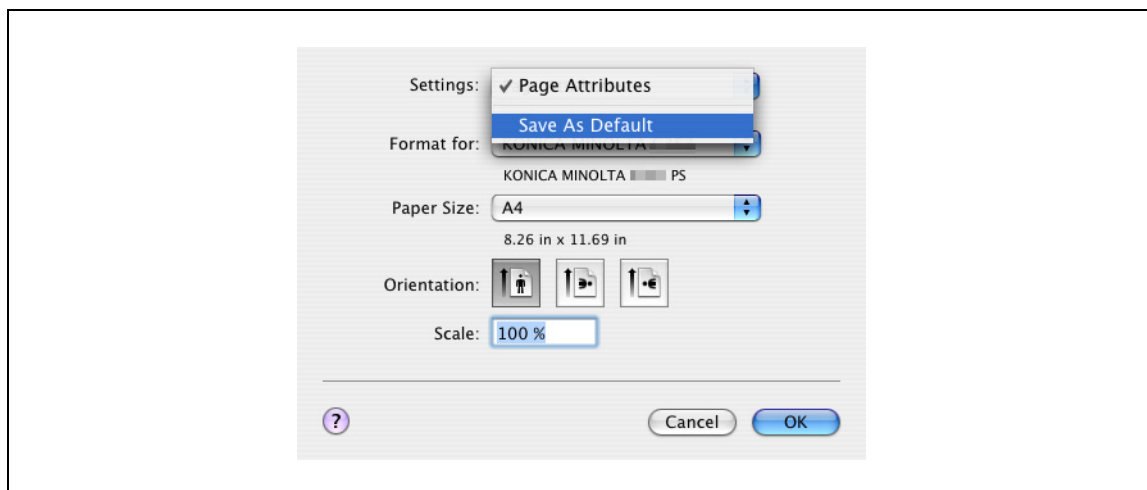
9.2.2 Registration of the default settings

The settings specified for the functions of this machine when printing can only be applied while using the application. When the application is quit, the settings return to their default settings.

To register the settings, save the settings in the printer driver setting.

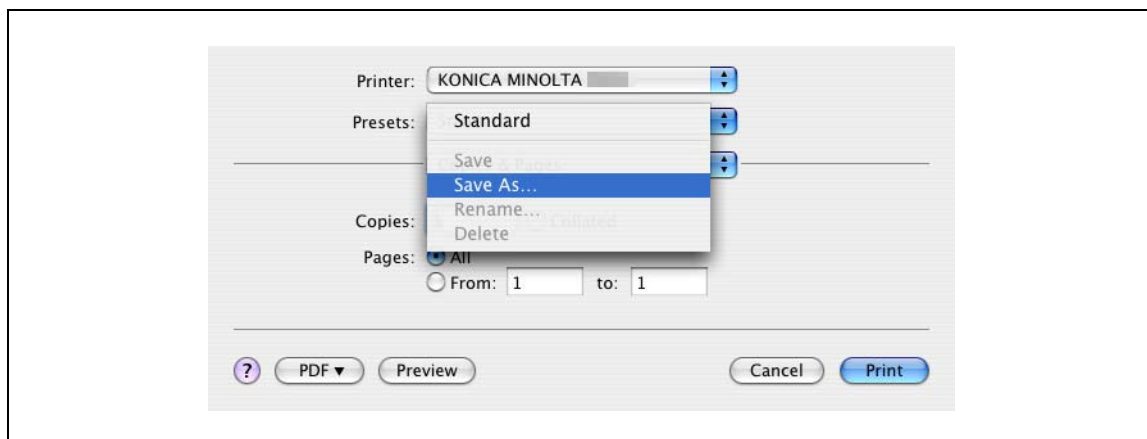
For Mac OS X, you can register the paper setting as the default setting. To set other print functions, save the setting with the "Presets" function and use them by calling them as required.

In the "Page Setup" dialog box, select "Settings" and save the settings by selecting "Save as Default".



In the "Print" dialog box, select "Presets" and save the printer driver functions by selecting "Save As".

When use this setting, select from "Presets".

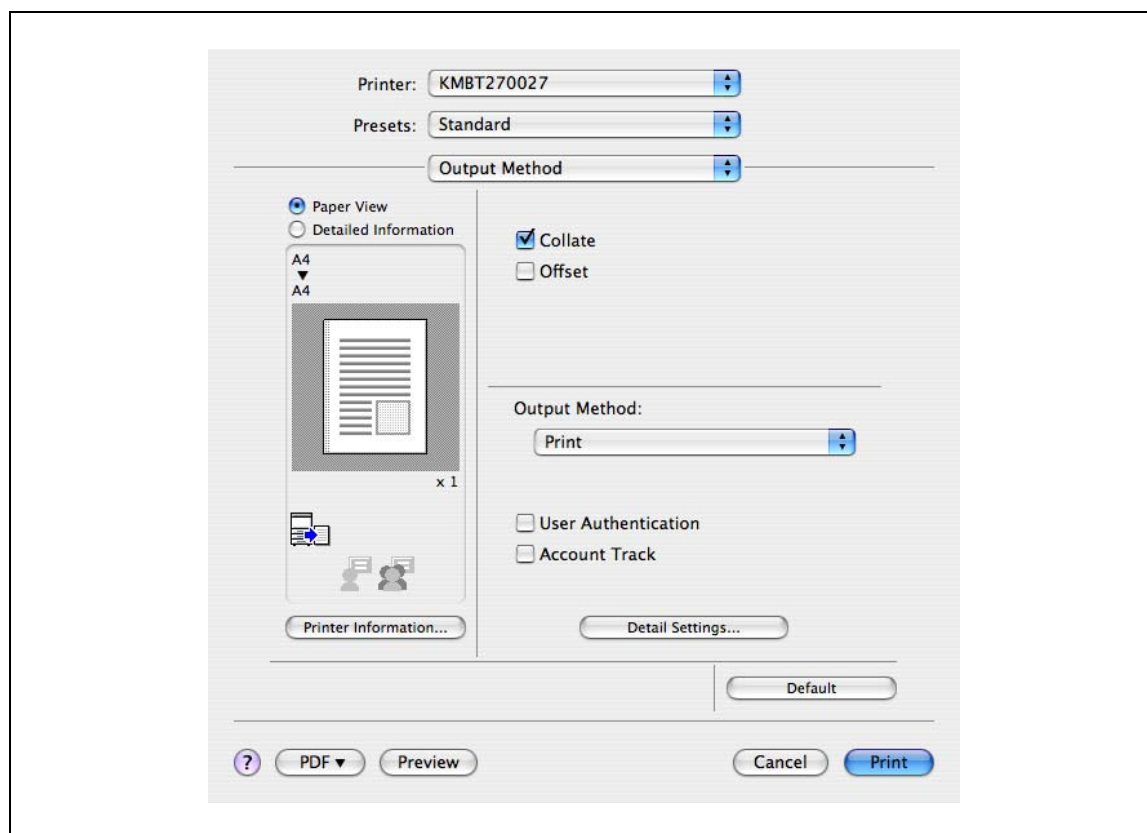


Detail

For the function and settings of the printer driver, refer to "Parameter details" on page 9-8.

9.3 Common settings

The following describes the common settings that are displayed by the specific operations (Output Method, Layout/Finish, Paper Tray/Output Tray, Cover Sheet/OHP Interleave, Per Page Setting, Stamp/Composition and Quality) for this machine specified in the Print dialog box.



Item	Description
Paper View	A preview of the page layout as specified in the current settings is displayed and a preview image of the print job can be checked.
Detailed Information	Shows the current settings with text.
Printer Information	Displays the status of the installed options.
Default	Click this button to return to the default setting.
Cancel	Click this button to cancel any settings that have been changed and close the dialog box.
Print	Click this button to enable the changed settings for printing.



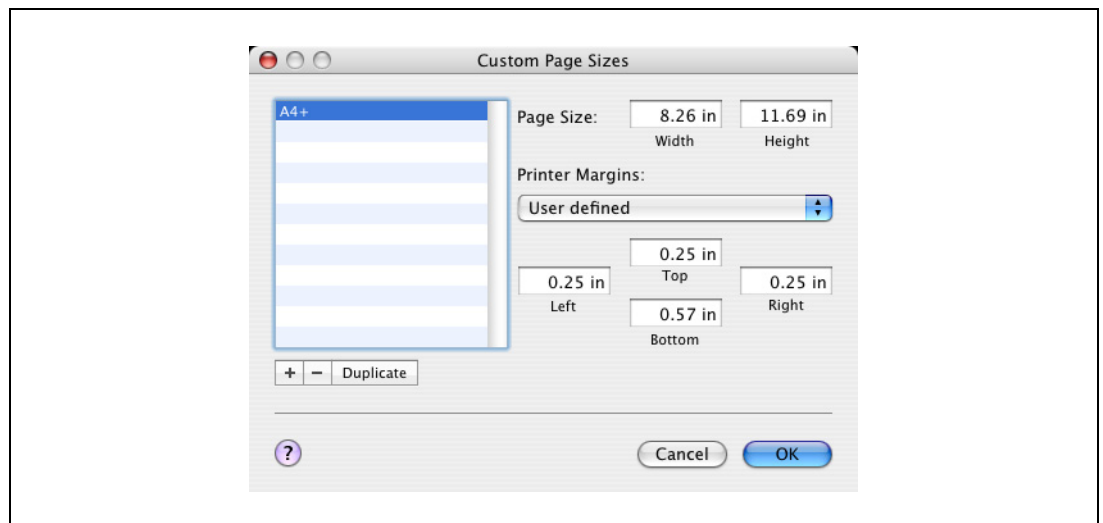
Detail

Click the [Acquire Device Information] button on the Printer Info dialog box to communicate with this machine and read the status of the settings specified on this machine. This function is not available unless the connection is enabled for communications with the machine.

9.4 How to add a custom size

To print on paper sizes other than the standard sizes, register the custom paper size.

- 1 In the [File] menu, select "Page Setup" (or "Paper Setup").
- 2 For Mac OS 10.4/10.5/10.6, select "Manage Custom Sizes" from the "Paper Size" list.
 - For Mac OS 10.2/10.3, select "Custom Paper Sizes" from "Settings".
- 3 Click the [+] button (OS 10.4/10.5/10.6) or the [Add] button (OS 10.2/10.3).
- 4 Enter the paper size name.
- 5 Specify settings for the following:
 - Page size (paper size): Specifies the paper size.
 - Printer Margins: Specifies the paper margins.



- 6 For Mac OS 10.4/10.5/10.6, continue with step 7.
 - For Mac OS 10.2/10.3, click the [Save] button.
- 7 Click the [OK] button.

This saves the custom paper size, which can be selected from the Paper Size drop-down list that is displayed when "Page Attributes" is selected.



Note

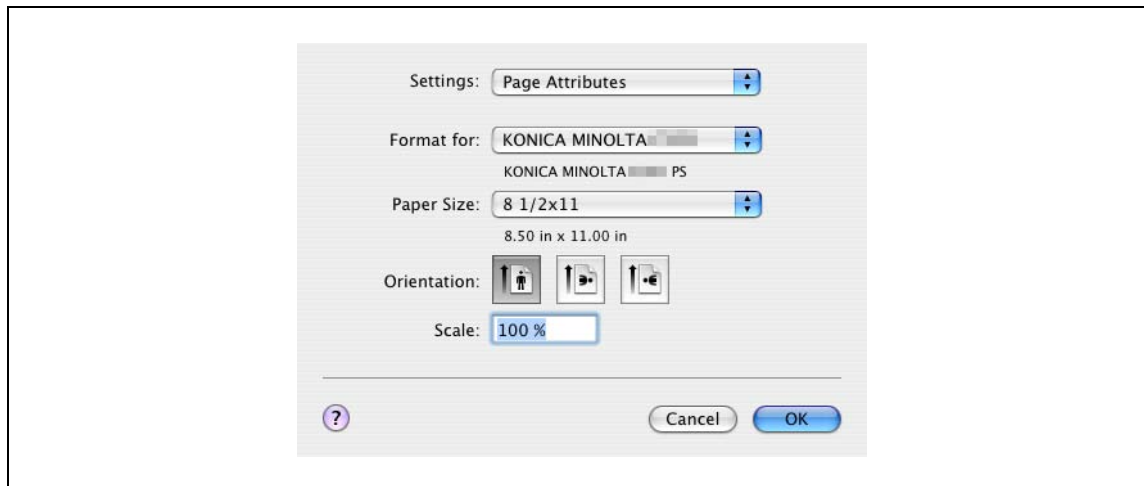
For Mac OS X 10.5/10.6, you can also select "Manage Custom Sizes" with "Paper Size" in the Print window.

9.5 Parameter details

The printer driver functions are specified in the following dialog boxes: In "Page Attributes" from the Page Setup dialog box; In "Output Method", "Layout/Finish", "Paper Tray/Output Tray", "Cover Sheet/OHP Interleave", "Per Page Setting", "Stamp/Composition", and "Quality" from the Print dialog box.

9.5.1 Page Attributes

In the [File] menu, select "Page Setup" (or "Paper Setup").



Function name	Option	Description
Paper Size	Paper size registered as the standard paper size and custom paper size available on this machine.	Specifies the output paper size.
Orientation	Portrait, Landscape	Specifies the orientation of the original.
Scale	1 to 400%	Specifies the enlargement and reduction ratio.



Note

The paper size "12 x 18" is equivalent to 304.8 x 457.2 mm which is slightly larger than A3.

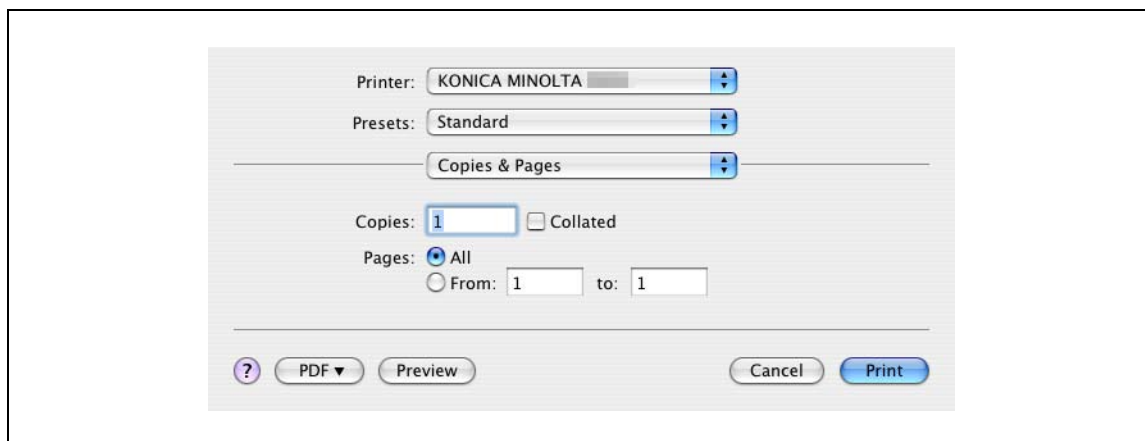
To print on paper sizes other than the standard sizes, be sure to set the custom paper sizes in "Custom Size Settings" first. For details on registering a non-standard paper size, refer to "How to add a custom size" on page 9-7.

For Mac OS X 10.5/10.6, you can specify "Paper Size" and "Orientation" also from the Print window.

When "W" is selected for each standard paper size, the data can be centered and printed. For example, if you want to center and print 8-1/2 x 11 size data on 11 x 17 size paper, specify "8 1/2 x 11W" as the paper size and "Bypass Tray" as the paper tray with the printer driver. To print, set 11 x 17 size paper on the specified tray ("Bypass Tray"), select [Basic screen (Paper)] - [Change Tray Settings] - [Wide Paper] on the operation panel, select "8 1/2 x 11W" from [Change Size] and enter 11 x 17 sizes.

9.5.2 Copies & Pages

In the [File] menu, select "Print".



Function name	Option	Description
Copies	1 to 9999	Specifies the number of copies to be printed.
Collated	ON/OFF	Do not specify this function. Select "Output Method", and then specify "Collate".
Pages	—	Specifies the print range to print.

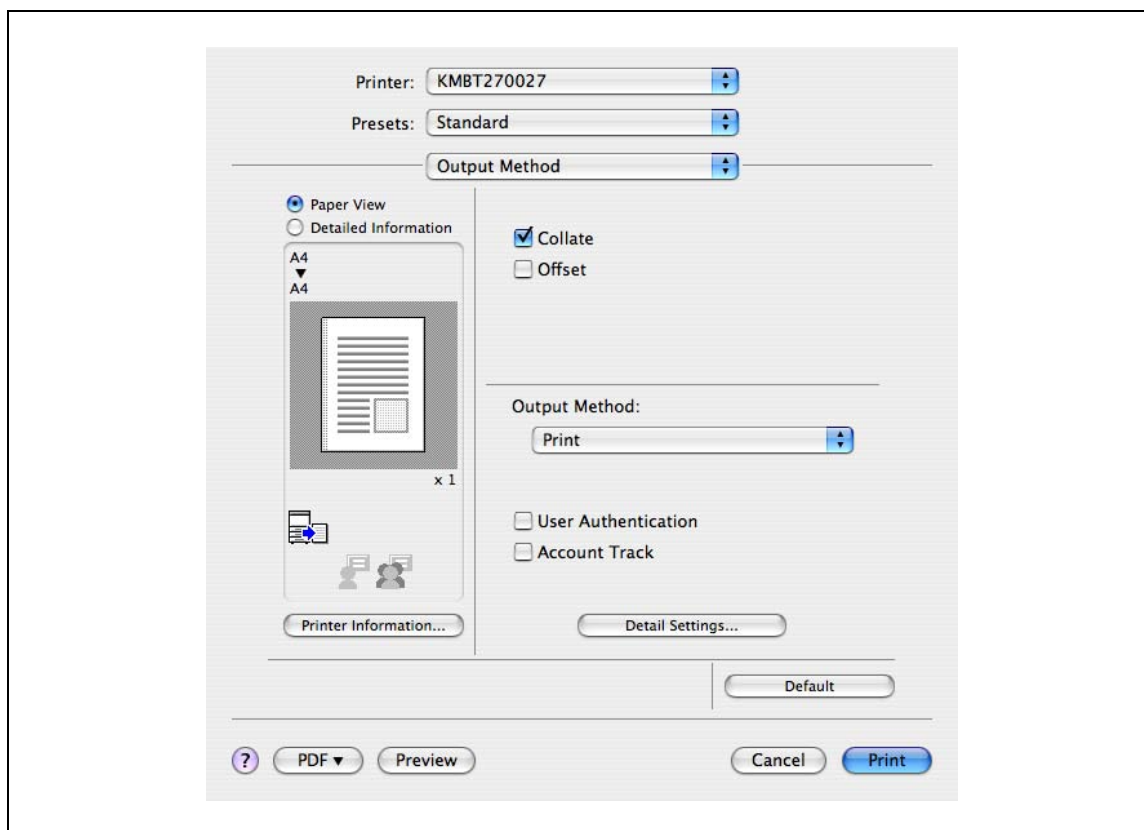


Note

For OS X 10.5/10.6, "Paper Size" and "Orientation" are also displayed, but the function is the same as that available from "Page Attributes".

When the setting items are not displayed in OS X 10.5/10.6, click [▼] on the right side of "Printer".

9.5.3 Output Method



Function name	Option	Description
Collate	ON/OFF	Specifies whether to print multiple copies by collating them.
Offset	ON/OFF	When printing multiple copies, shifts the output position of each set.
Output Method	Print:	Prints immediately.
	Secure Print	Saves the document to be printed in "Secure Print User Box" of this machine. When printing, entering the ID and password is required in the control panel of this machine. Select this option when printing highly confidential documents.
	Save in User Box	Saves the document to be printed in the user box on this machine.
	Save in User Box and Print	Saves the document in a box and prints at the same time.
	Proof Print	After one copy of the document has been printed, this machine stops printing temporarily. Select this option to avoid misprinting a large volume of print jobs.
	ID & Print	Saves the document to be printed in "ID & Print User Box" of this machine. When printing, user authentication must be performed via the control panel of this machine.
[User Authentication]	—	If the "User Authentication" settings have been specified on this machine, you must specify a user name and password.
[Account Track]	—	If the "Account Track" settings have been specified on this machine, you must specify a department name and password.
[Detail Settings]	—	Displays the functions for which the setting details have been specified.



Detail

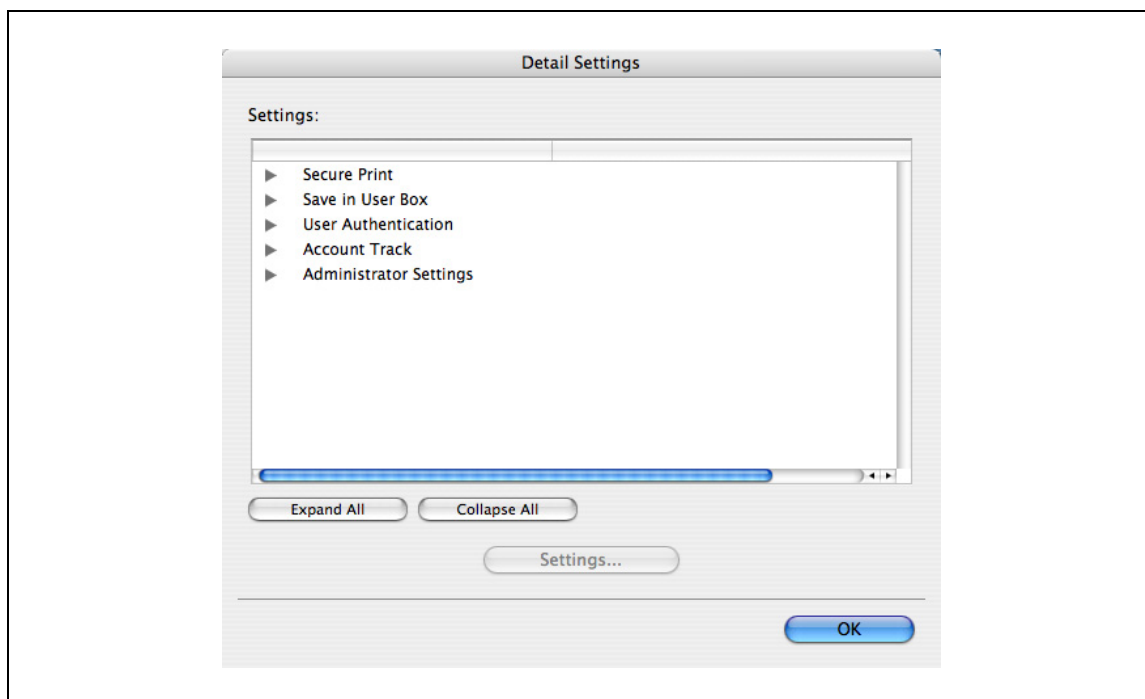
For details on *Output Method*, refer to "Function detail description" on page 11-3.

Checking the Output Method setting details

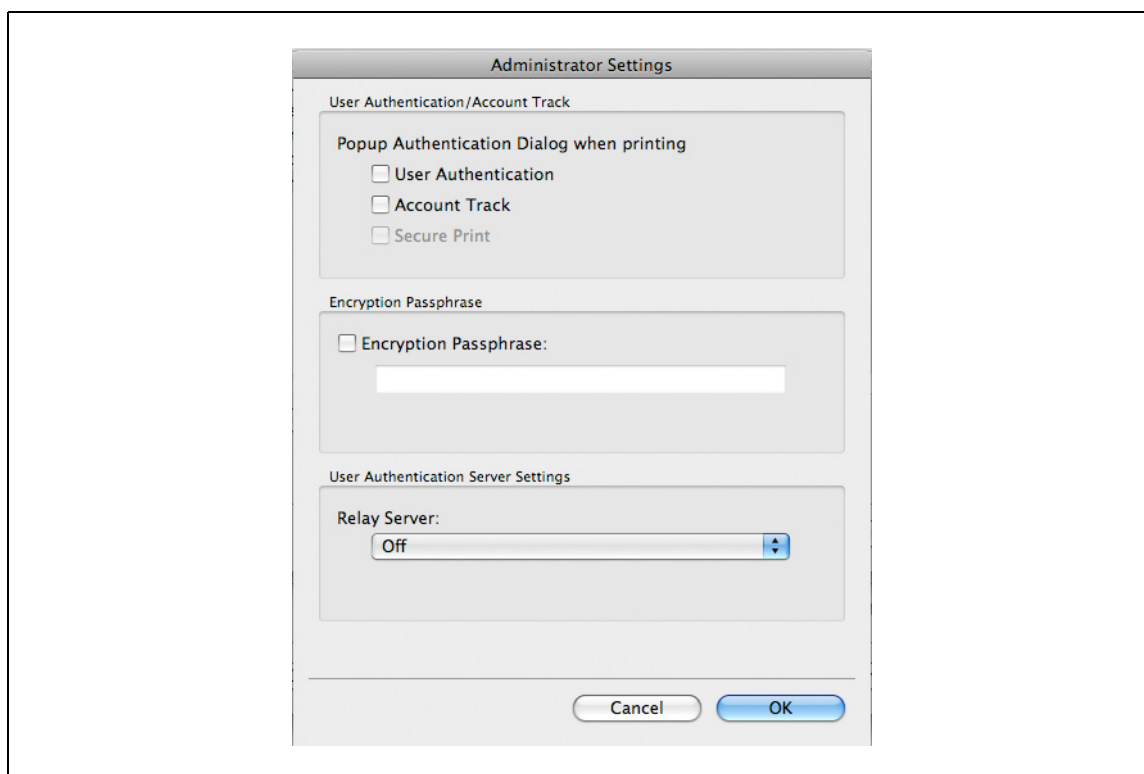
By clicking the [Detail Settings] button, the "Output Method" functions for which detail settings have been specified are shown.

The settings can be shown by clicking the [Expand All] button.

By selecting a function and clicking the [Settings] button, the dialog box for specifying the detailed settings for the selected function appears.



Item	Description
Secure Print	This is the same dialog box that appears when you select "Output Method" and specify "Secure Print".
Save in User Box	This is the same dialog box that appears when you select "Output Method" and specify "Save in User Box" or "Save in User Box and Print".
User Authentication	This is the same dialog box that appears when you select "Output Method" and select "User Authentication" checkbox.
Account Track	This is the same dialog box that appears when you select "Output Method" and select "Account Track" checkbox.
Administrator Settings	Displays a dialog box to set an input dialog for authentication setting and change the Encryption Passphrase.



Item	Description
Popup Authentication Dialog when printing	Displays the User Authentication dialog box, Account Track dialog box or Secure Print dialog box when a print job is specified and checks entry of a user name and a department name each time.
Encryption Passphrase	Specifies an encryption passphrase to use user-defined key to communicate with this machine. The encryption passphrase for the entered characters is automatically created, which is to be used for communication with this machine.
User Authentication Server Settings	Select whether to use the external server authentication.



Note

Match the "Encryption Passphrase" to that specified by "Driver Password Encryption Setting" of this machine.

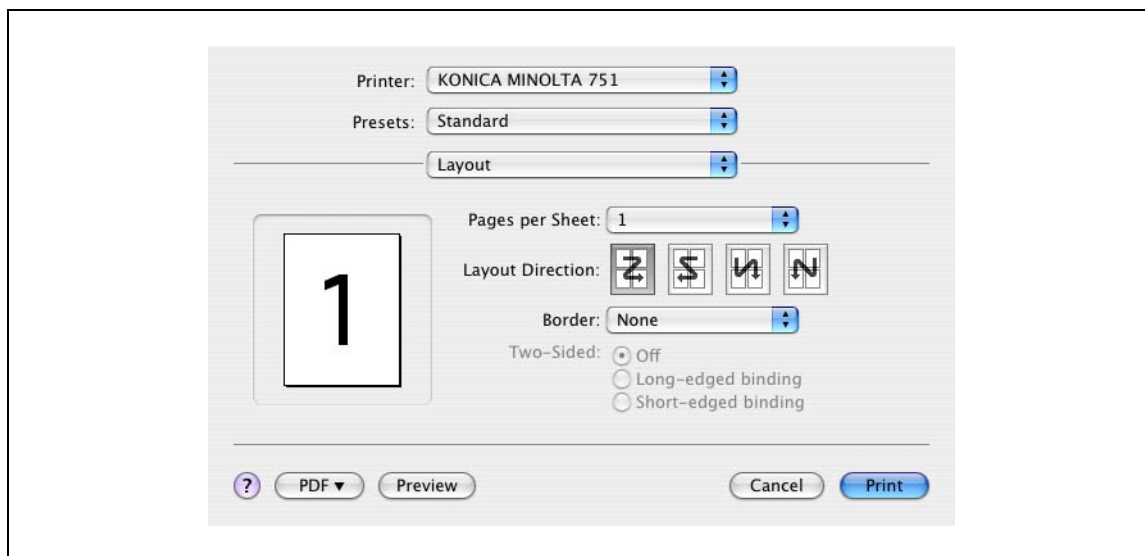


Detail

For the procedure for specifying "Encryption Passphrase" to be defined by the user, refer to "Specifying a user-defined encryption passphrase" on page 11-37.

9.5.4 Layout

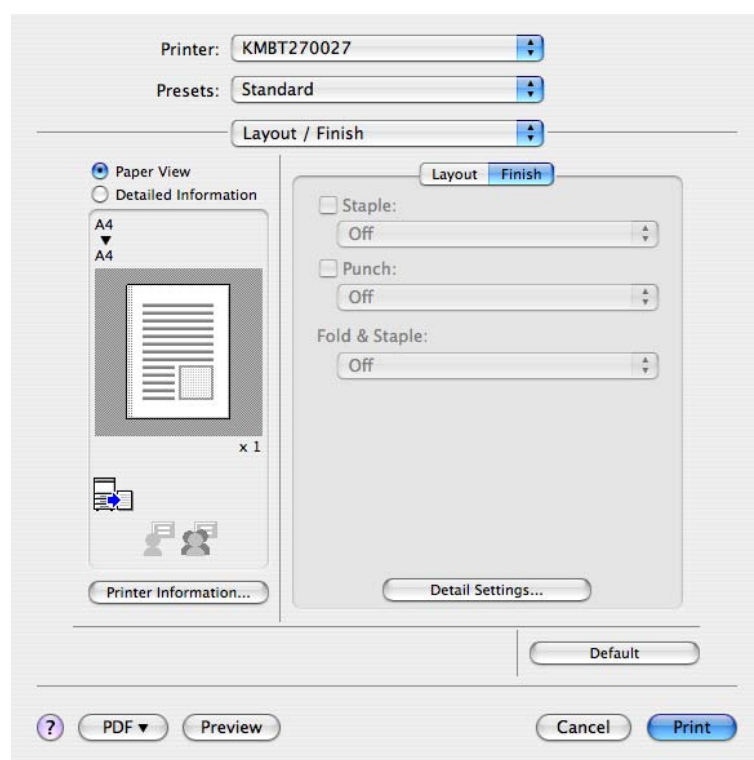
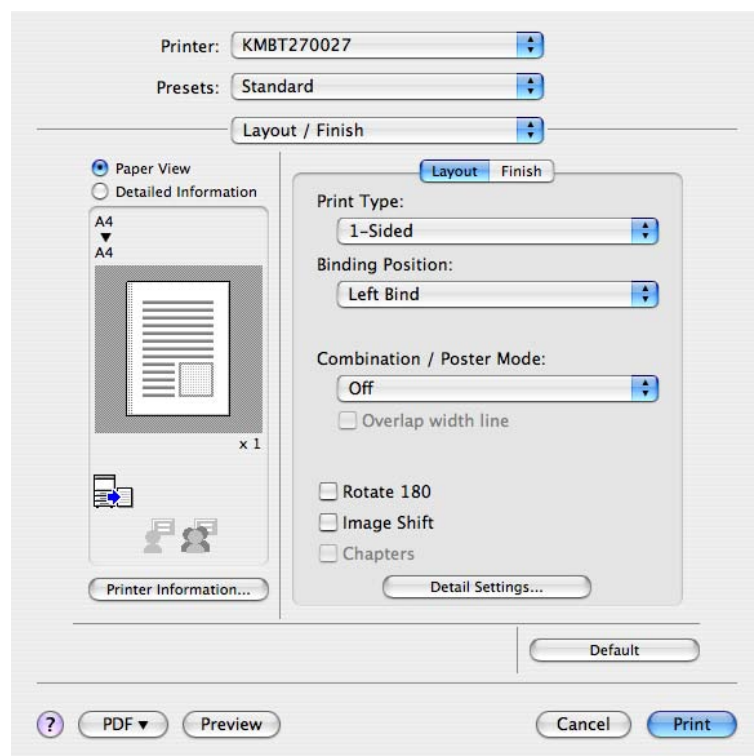
You can specify the page order and the presence of the border frame.



Function name	Option	Description
Pages per Sheet	1, 2, 4, 6, 9, 16	Prints multiple pages on one page.
Layout Direction	-	Specifies the layout order.
Border	None, Single Hairline, Single Thin Line, Double Hairline, Double Thin Line	Specifies the presence and type of border lines.

9.5.5 Layout/Finish

You can switch between the Layout dialog box and the Finish dialog box.



Note

When printing a job that contains pages of different sizes and orientations with the "Poster Mode" setting specified, images may be missing or overlapping when the document is printed.

Function name	Option	Description
Print Type	1-Side, 2-Sided, Booklet	Specifies duplex printing and booklet printing.
Binding Position	Left stitch, right stitch, top stitch	Specifies the binding position.
Combination/Poster Mode	Off, 2 in 1, 2 Repeat, 2 Repeat Reversal, 2 x 2, 3 x 3, 4 x 4	When Combination (2 in 1, 2 Repeat, 2 Repeat Reversal) is specified, two consecutive pages or one page and its copy (two pages in total) are printed collectively on a sheet of paper. When Poster Mode (2 x 2, 3 x 3, 4 x 4) is specified, a single original is divided into multiple pages and printed.
Overlap width line	ON/OFF	Specifies the presence of a poster mode overlap. This setting can be specified when the "Poster Mode" setting is other than "OFF".
Rotate _180	ON/OFF	Rotates 180° to print.
Image Shift	ON/OFF	Prints by shifting the entire print image. The screen is displayed when the setting is enabled and allows you to set the detail of the shift length.
	Front Side/Back Side	Specifies the shift direction and values. For 2-sided printing, clearing the "Same Value for Front and Back Sides" check box allows you to set different values between the front and back sides.
Chapters	ON/OFF	Specifies the page to be printed on the front side. The screen is displayed when the setting is enabled and allows you to set the page. You can specify it when the print type is "2-sided" or "Booklet".
	Page Number	Specifies the page to be printed on the front side when "Chapters" is selected.
Staple	ON/OFF	Specifies stapling. From the drop-down list, specify the number of staples and the stapling position.
Punch	ON/OFF	Specifies hole punching. From the drop-down list, specify the number of punches and the position.
Fold & Staple	Off, Center Staple & Fold, Half-Fold, Z-Fold, Tri-Fold	Specifies to half fold and center staple. The selectable items differ depending on the installed options.



Note

The "Staple" and "Fold & Staple" functions are available only if the optional finisher or Z folding unit is installed.

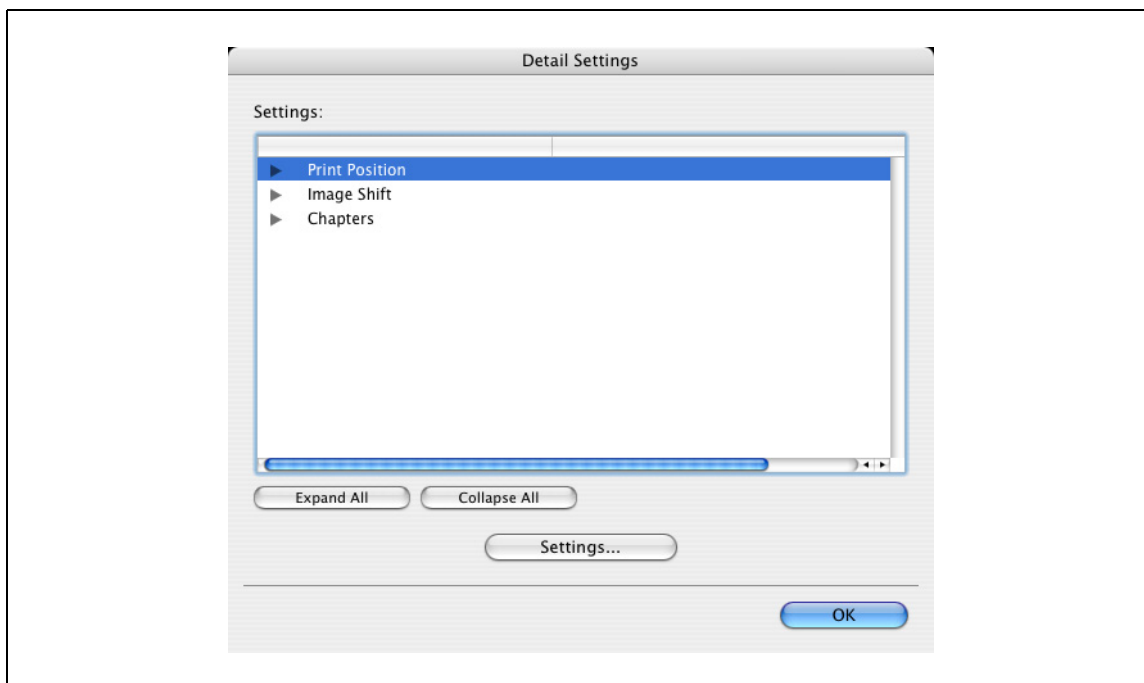
The "Punch" function is available only if the punch kit or Z folding unit is installed with the optional finisher.

Checking the Layout/Finish setting details

By clicking the [Detail Settings] button, the "Layout/Finish" functions for which detail settings have been specified are shown.

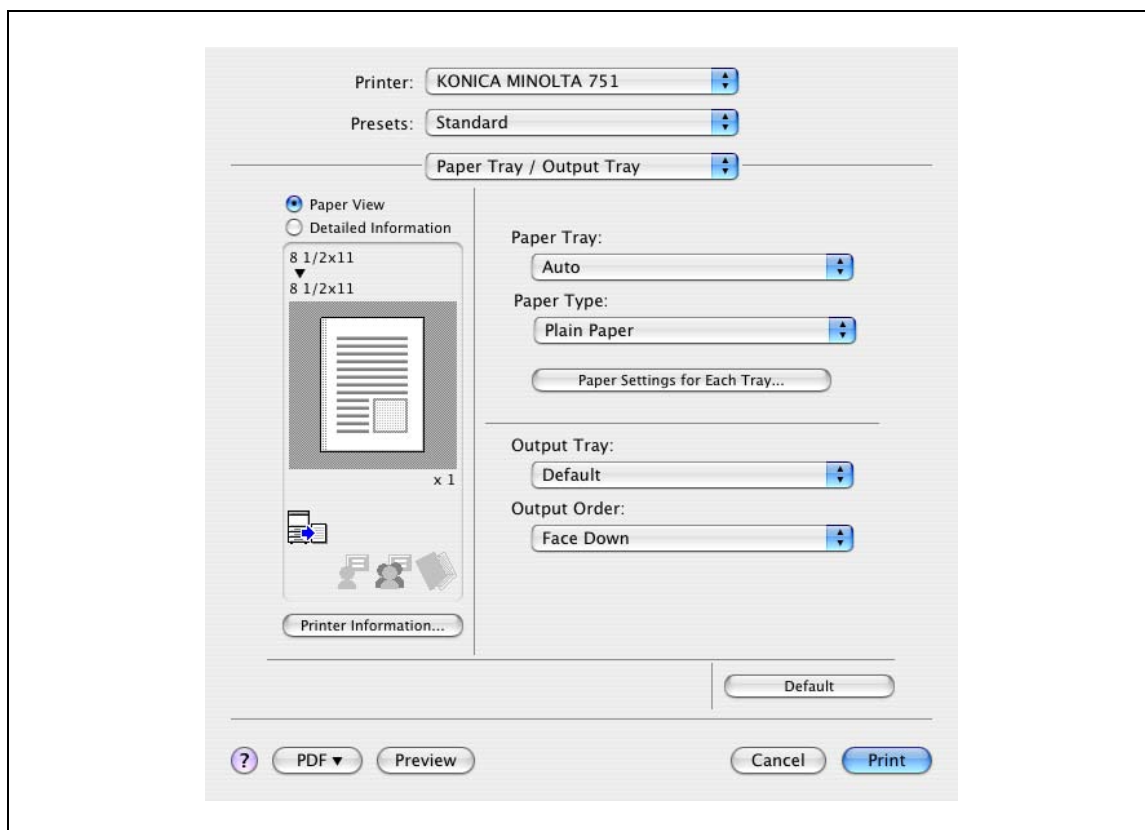
The settings can be shown by clicking the [Expand All] button.

By selecting a function and clicking the [Settings] button, the dialog box for specifying the detailed settings for the selected function appears.



Item	Description
Print Position	Displays the dialog box for specifying the print position. The print position can be specified when the paper size is "Wide Paper" or "Custom Size".
Image Shift	Displays the same window as the one displayed when "Image Shift" is specified for "Layout".
Chapters	Displays the same window as the one displayed when "Chapters" is specified for "Layout".

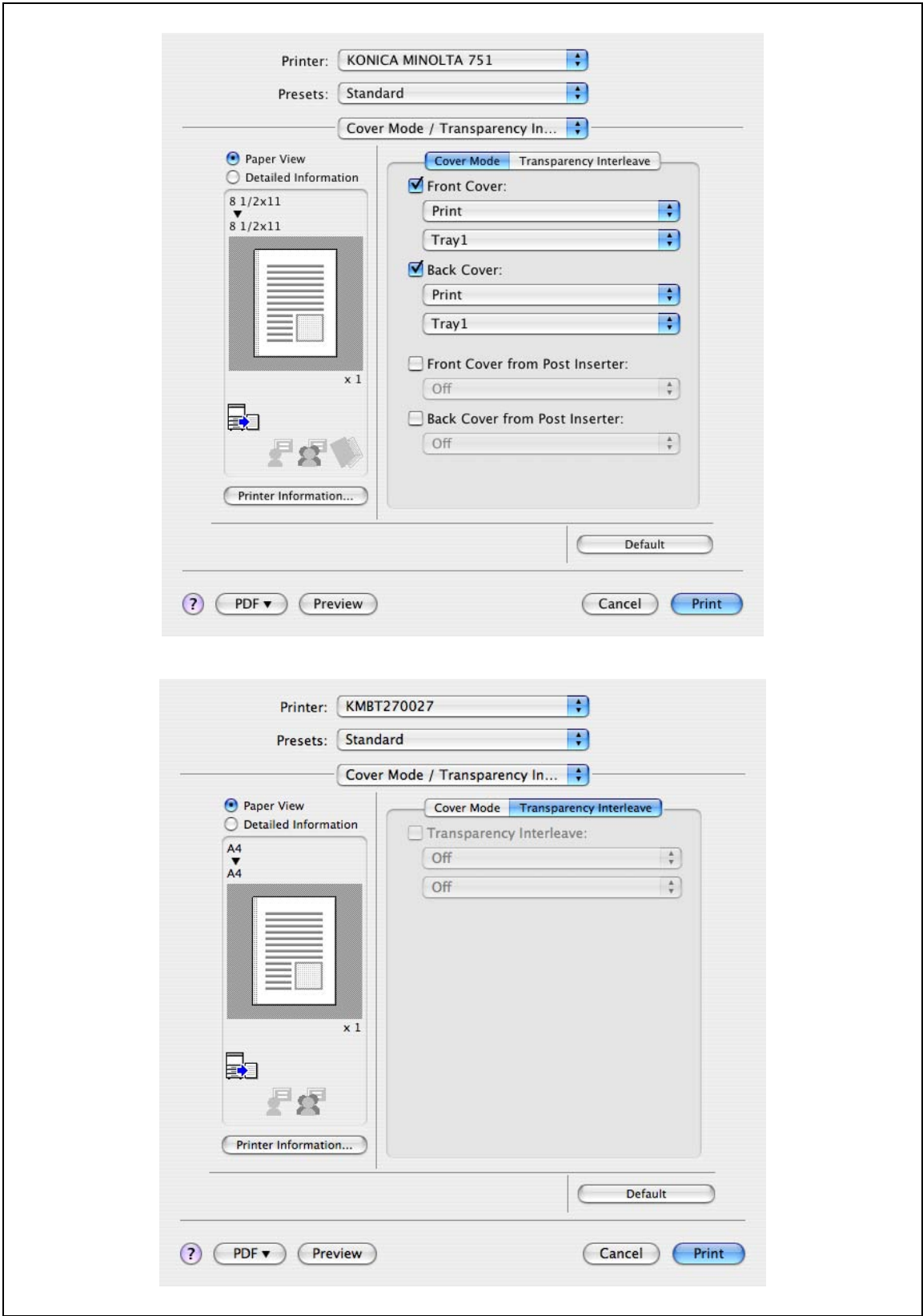
9.5.6 Paper Tray/Output Tray



Function name	Option	Description
Paper Tray	Auto, Tray1-4, LCT, Bypass Tray	Selects the paper tray to be used. The selectable items differ depending on the options that are installed.
Paper Type	Paper type available on this machine.	Selects the paper type for printing. Can be changed only when the paper tray is set to "Auto". When the paper tray is not set to "Auto", the paper type registered by "Paper Settings for Each Tray" is effective.
[Paper Settings for Each Tray]	Paper Tray	Selects the paper tray to be specified. The selectable items differ depending on the installed options.
	Paper Type	Selects the type of paper to be loaded onto the paper tray.
Output Tray	Default, Main tray, Sub tray, Tray 1/Bin5, Tray 2/Bin6, Tray3, Bin 1-4	Specifies the tray where to output the printed pages. The selectable items differ depending on the options that are installed.
Output Order	Face Down, Face Up	Specifies output paper to be facing up or facing down. The printed side is to be facing down when output if "Face Down" is specified, or facing up if Face Up is specified.

9.5.7 **Cover Mode/Transparency Interleave**

You can switch between the Cover Mode dialog box and the Transparency Interleave dialog box.



Function name	Option	Description
Front Cover	Off, Print, Blank	Attaches a front cover page. You can specify it when "Auto" is not selected for the paper tray.
	Tray 1-4, LCT, Bypass Tray	Selects the paper tray for the cover page. The selectable items differ depending on the options that are installed.
Back Cover	Off, Print, Blank	Attaches a back cover page. You can specify it when "Auto" is not selected for the paper tray.
	Tray 1-4, LCT, Bypass Tray	Selects the paper tray for the back cover page. The selectable items differ depending on the options that are installed.
Front Cover from Post Inserter	Off, PI Tray1, PI Tray2	Prints the document with a front cover attached from the post inserter. The cover paper is fed from the selected PI tray.
Back Cover from Post Inserter	Off, PI Tray1, PI Tray2	Prints the document with a back cover attached from the post inserter. The cover paper is fed from the selected PI tray.
Transparency Interleave	ON/OFF	Outputs and inserts interleaves when printing overhead projector transparencies. You can specify it when "Transparency" is selected for the paper type.
	Tray 1-4, LCT	Selects the paper tray for the transparency interleaves. The selectable items differ depending on the options that are installed.

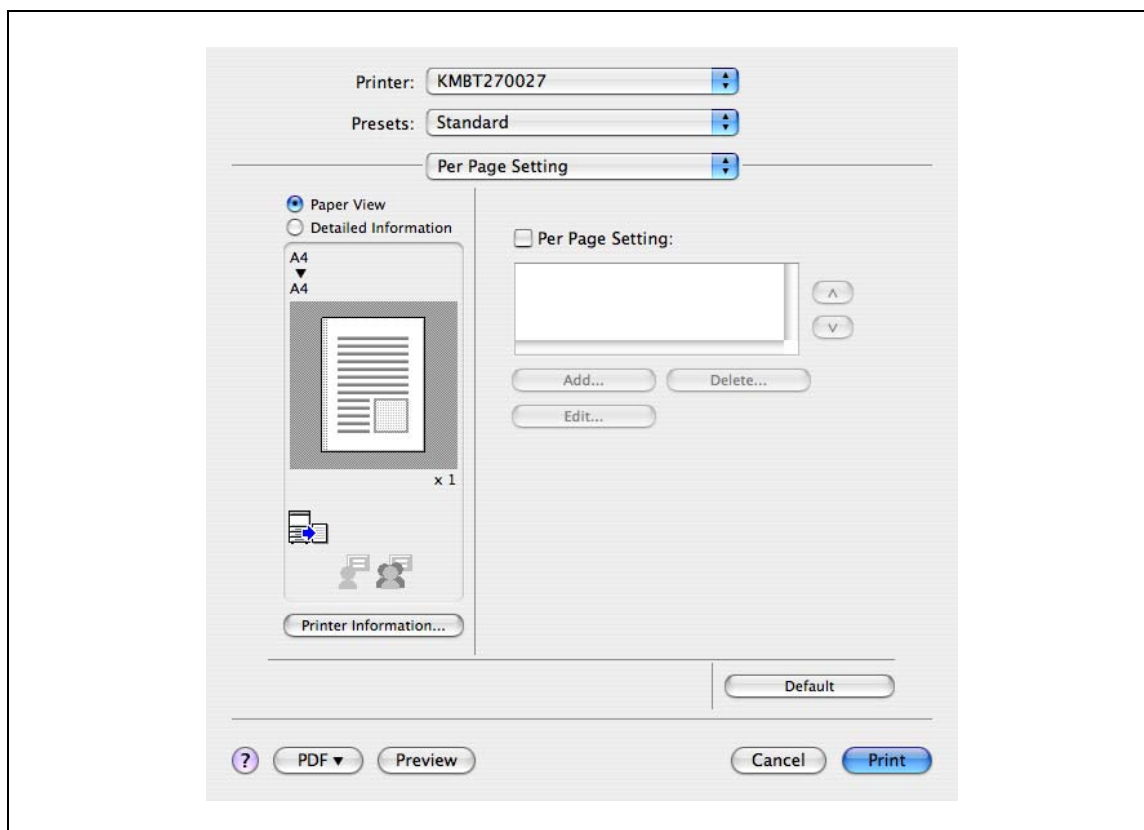


Note

The "Front Cover from Post Inserter" and "Back Cover from Post Inserter" functions are available only if the optional post inserter is installed.

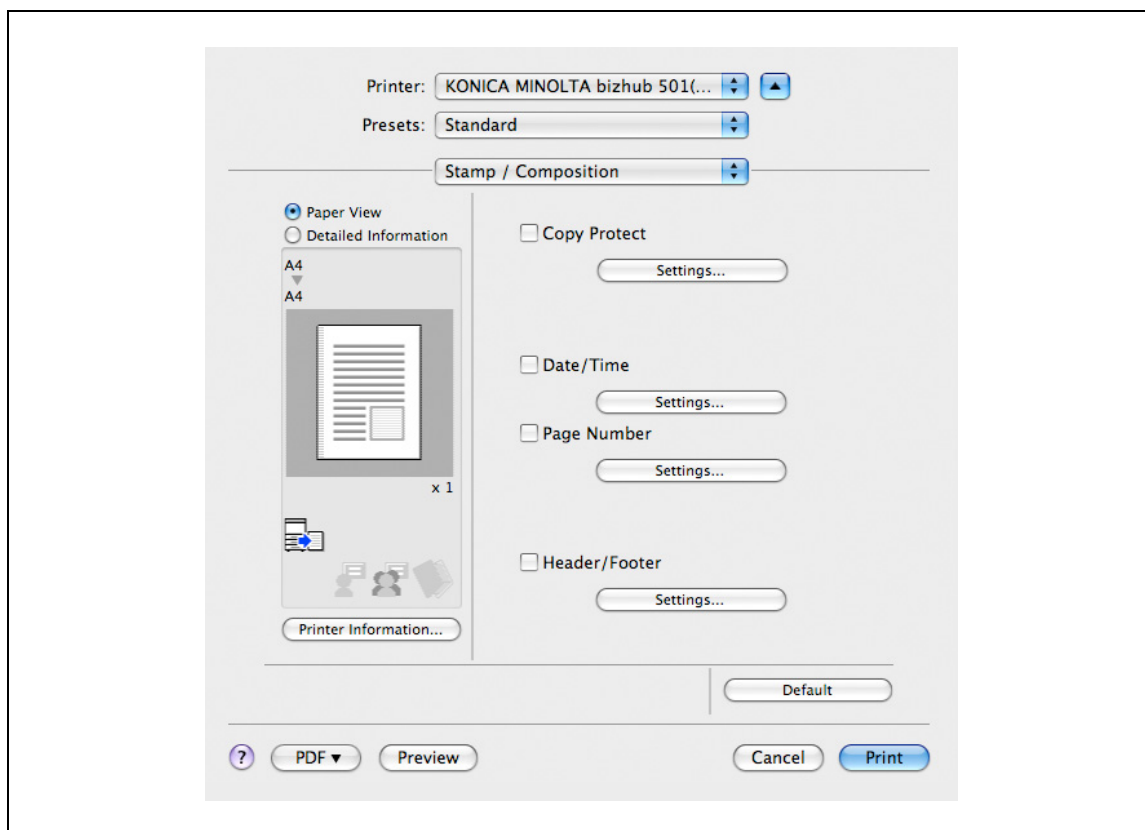
9.5.8 Per Page Setting

The print type and paper tray can be specified for each page. This function is convenient when changing the paper tray during a print job to print multiple pages. The settings are added to the Per Page Setting list and can be used as necessary.



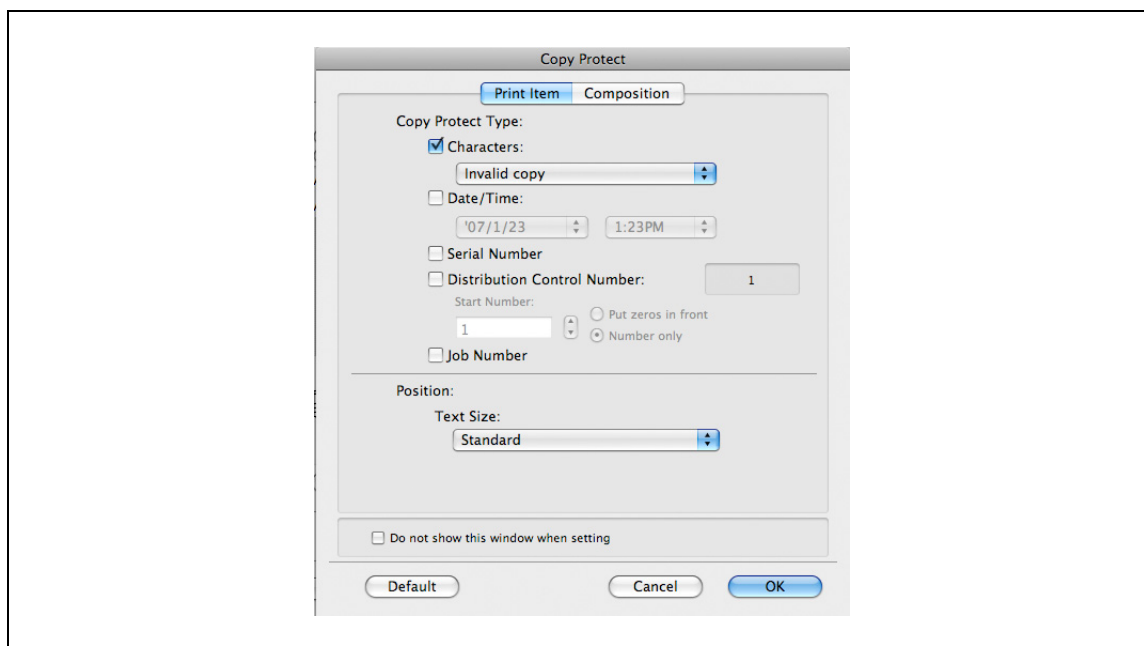
Function name	Option	Description
Per Page Setting	ON/OFF	Inserts paper between pages and switches the paper and tray for each page.
[Add]	—	Creates a conditioned list.
[Delete]	—	Deletes the list.
[Edit]	—	Edits the conditioned list.

9.5.9 Stamp/Composition

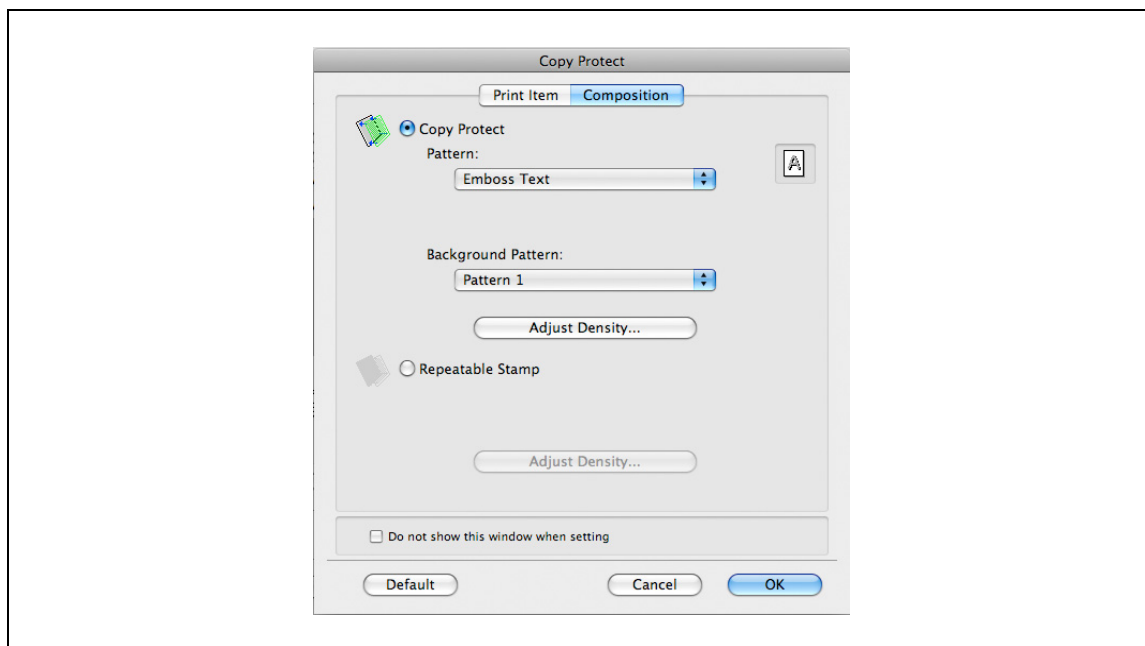


Function name	Option	Description
Copy Protect	ON/OFF	Prints a special pattern to prevent copying. You can specify items, positions and the composition to be printed by clicking the [Settings] button.
[Settings]	—	For details, refer to "Editing copy protect" on page 9-22.
Date/Time	ON/OFF	You can print the date and time on a document. You can specify items, pages and positions to be printed by clicking the [Settings] button.
[Settings]	—	For details, refer to "Editing date/time" on page 9-24.
Page Number	ON/OFF	Prints the page number. You can specify items, pages and positions to be printed by clicking the [Settings] button.
[Settings]	—	For details, refer to "Editing page number" on page 9-25.
Header/Footer	Printer setting 1-20	Prints the header and footer. Select header/footer information from the list specified in the printer. You can specify items and pages to be printed by clicking the [Settings] button.
[Settings]	—	For details, refer to "Editing header/footer" on page 9-26.

Editing copy protect



Item	Description
Characters	Embeds the selected character string in a pattern. A preregistered character string (common stamp) or a character string registered on this machine (registered stamp) can be specified.
Date/Time	Embeds the selected date and time in a pattern. By clicking the [Edit] button under "Format", you can specify the display type or the time format.
Serial Number	Embeds the serial number of this machine in a pattern.
Distribution Control Number	Embeds the copy number in a pattern when printing multiple copies. The start number or the display type can be specified.
Job Number	Embeds the print job number in a pattern for documents that are automatically paginated.
Position	Select the format for the pattern of Copy Protect to compose.
Text Size	Specifies the text size of a pattern.



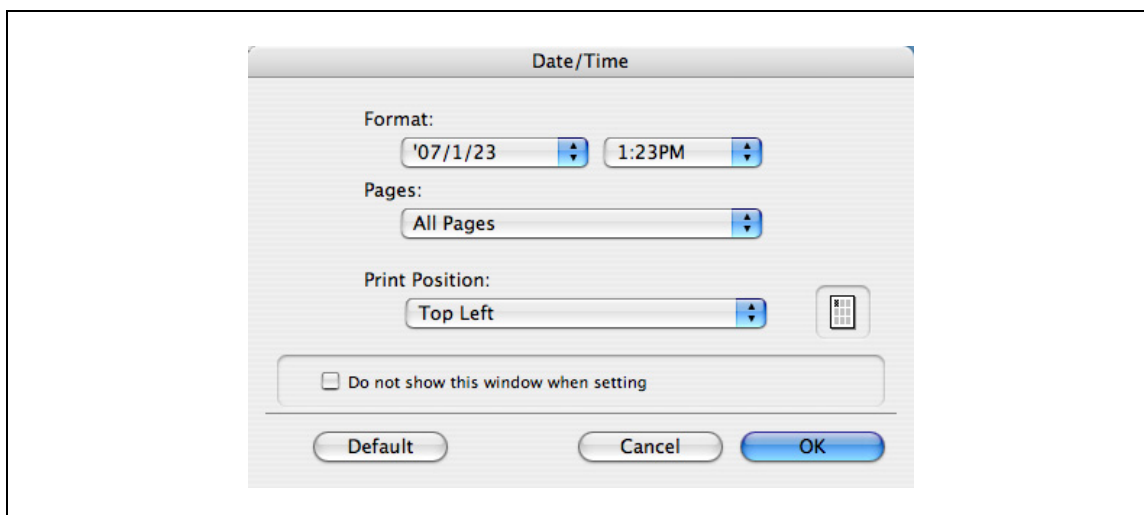
Item	Description
The following settings are available when "Copy Protect" is selected.	
Copy Protect	Embed the pattern to appear when an unauthorized copy is made.
Pattern	Specifies the embedding method of a pattern.
Background Pattern	Specifies the pattern background.
[Adjust Density]	Specify the density or contrast of a pattern.
The following settings are available when "Repeatable Stamp" is selected.	
Repeatable Stamp	Prints a text pattern.
[Adjust Density]	Specify the density or contrast of a pattern.



Note

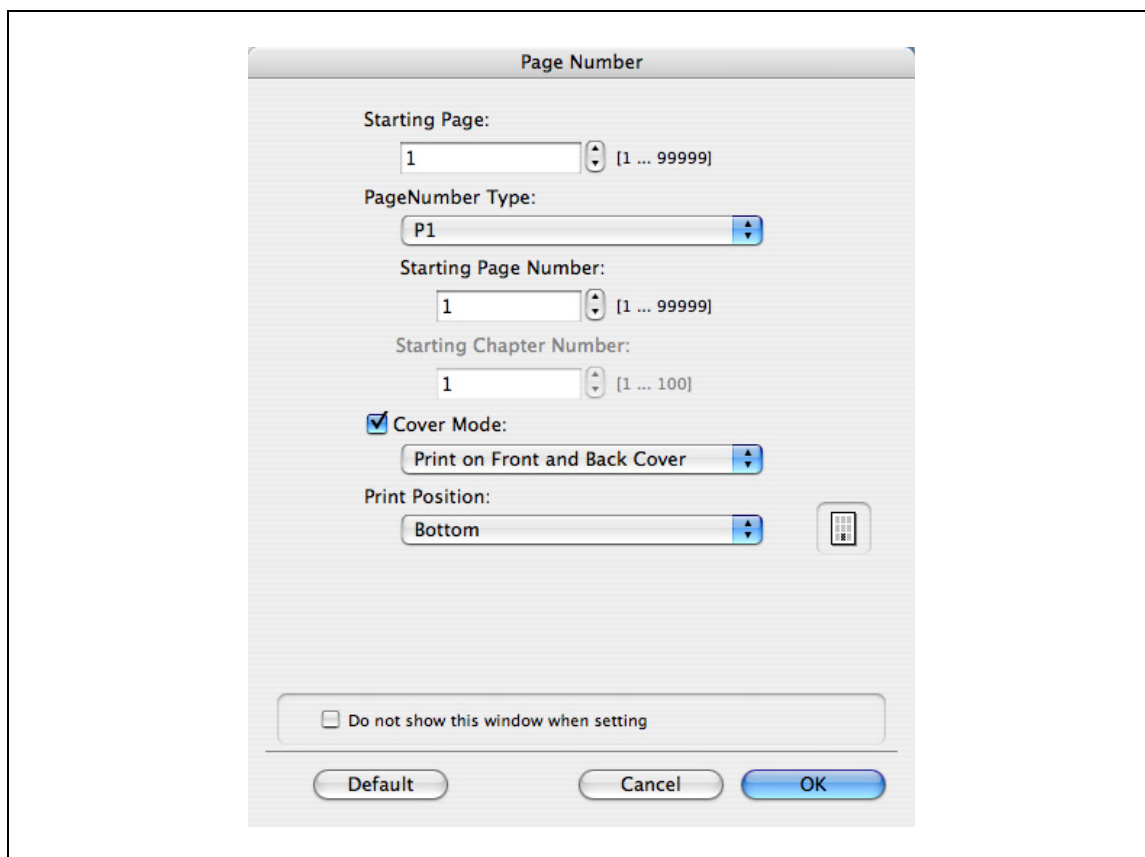
"Copy Protect" and "Repeatable Stamp" cannot be selected at the same time.

Different setting items are available for "Copy Protect" and "Repeatable Stamp".

Editing date/time

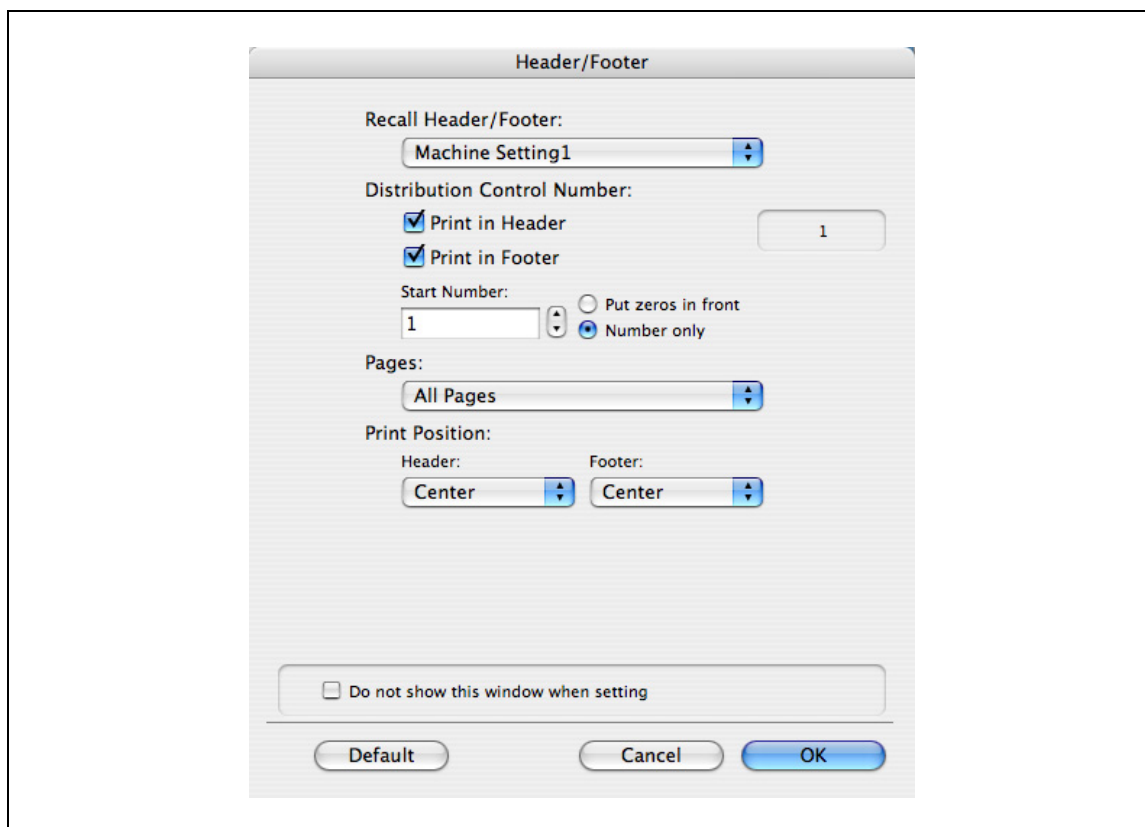
Item	Description
Format	Displays the format for the date and time to be printed.
Pages	Specifies the pages to print the date and time.
Print Position	Specifies the print position.

Editing page number



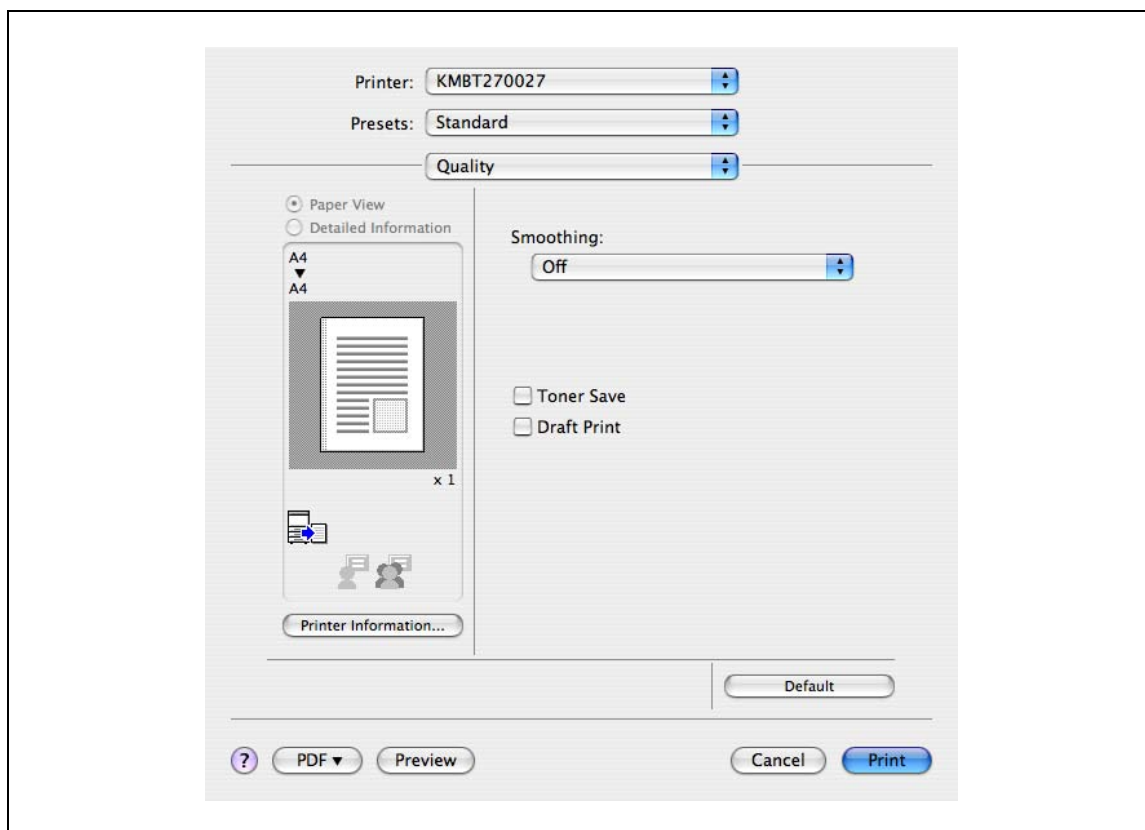
Item	Description
Starting Page	Specifies the page to start printing the page number.
Page Number Type	Select the type of the Page Number.
Starting Page Number	Specifies the start number for printing the page number.
Starting Chapter Number	When the Chapter Number is selected as a type to be used for the type of the Page Number, set the Starting Chapter Number of the Page Number printing.
Cover Mode	If cover pages are attached, specifies whether to print the page number on the front cover page or the back cover page.
Print Position	Specifies the print position.

Editing header/footer



Item	Description
Recall Header/Footer	Selects the header/footer settings registered in this machine.
Distribution Control Number	Prints the number of copies in the header and footer when printing multiple copies. The start number or the number of digits displayed can be specified.
Pages	Specifies the pages to print the header and footer.
Header Position	Specify the position for printing the Header.
Footer Position	Specify the position for printing the Footer.

9.5.10 Quality



Function name	Option	Description
Smoothing	ON/OFF, Type 1-3	The letters and graphics to be printed are printed smoothly. The Type 3 is best suited for the delicate curved section.
Toner Save	ON/OFF	Controls the print density and saves the toner consumption.
Draft Print	ON/OFF	Print thinly for a draft.

A large, bold, black number '10' is centered within a light gray rectangular background.

Print function of Mac OS 9.2

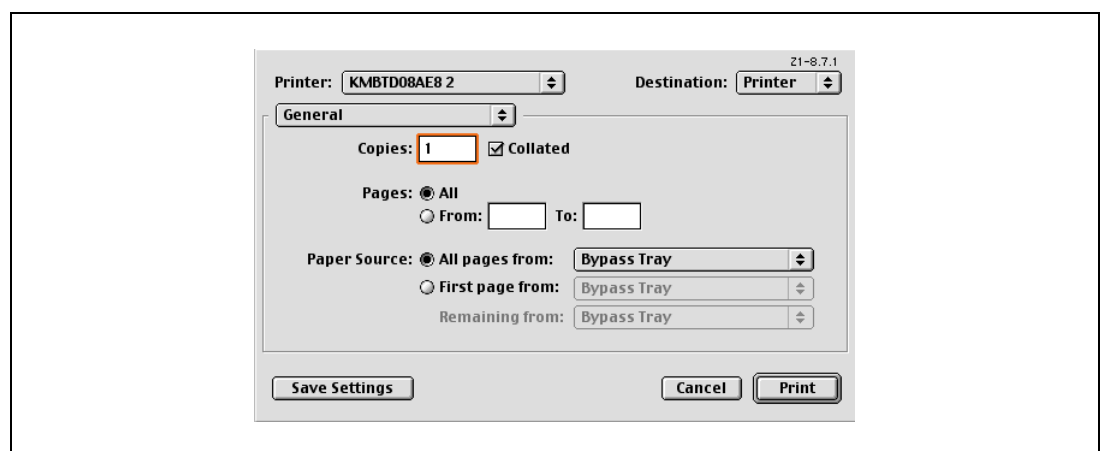
10 Print function of Mac OS 9.2

10.1 Printing operations

Print jobs are specified from the application software.

- 1 Open the data in the application, click the [File] button, and then click "Print" from the menu.
 - If the menu is not available, click the [Print] button.

The Print dialog box appears.
- 2 Check that an appropriate printer name has been selected by the "Printer".
 - If the selected printer is not appropriate, click to select an appropriate printer.
 - If the printer does not appear, select a printer from "Chooser". For details, refer to "Selecting and connecting the printer" on page 5-13.
 - The Print dialog box differs depending on the application.



- 3 Specify the print range and the number of copies to print.
 - When you change the "General" menu, other setting screens of the printer driver appear and allows you to specify various functions. For details, refer to "Parameter details" on page 10-6.
- 4 Change the setting screen to change the printer driver settings as necessary.
- 5 Click the [Print] button.

The data indicator of this machine flashes.



Detail

The printer driver setting changed on the Print dialog box is not saved and the original settings are restored when the application is quit.

10.2 Initializing the printer driver

When you have installed the printer driver, you need to change the initialization condition such as options before daily printing and enable functions of this machine from the printer driver.



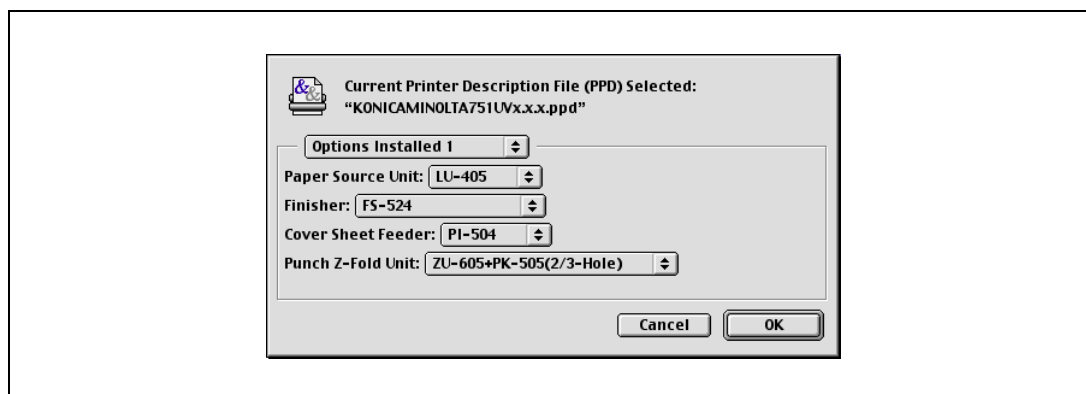
Reminder

If the model name and installed options are not specified, the option functions cannot be used from the printer driver. When installing options, be sure to make the proper settings.

10.2.1 Options

- 1 On the "Apple" menu, select "Chooser".
- 2 Select the printer name.
- 3 Click the [Setup] button.
- 4 Click the [Configure] button.
 - When the machine is specified as the LPR printer, double-click the LPR printer icon on the desktop, select the "Printer" menu, and then click "Change Setup" to display the dialog box for option settings.

The dialog box for option settings appears.



- 5 Set options installed on this machine in the Options Installed 1 and Options Installed 2 dialog boxes.
- 6 Click the [OK] button.

The Chooser dialog box appears again.
- 7 Close the Chooser dialog box.



Note

The option settings are displayed automatically the first time the printer driver is selected. For details, refer to "Selecting and connecting the printer" on page 5-13.

10.2.2 Registration of the default settings

The settings specified for the functions of this machine when printing can only be applied while using the application. When the application is quit, the settings return to their default settings.

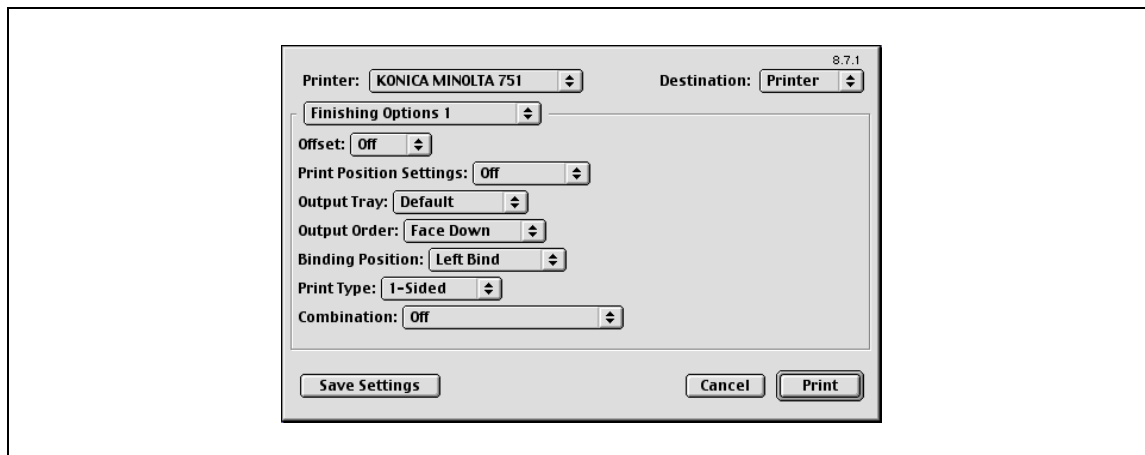


Detail

For the function and settings of the printer driver, refer to "Parameter details" on page 10-6.

To register the settings, save the settings in the printer driver setting.

For OS 9.2, select the Print dialog box and click the [Save Settings] button to save it.



Note

The settings cannot be saved from the Page Setup dialog box.

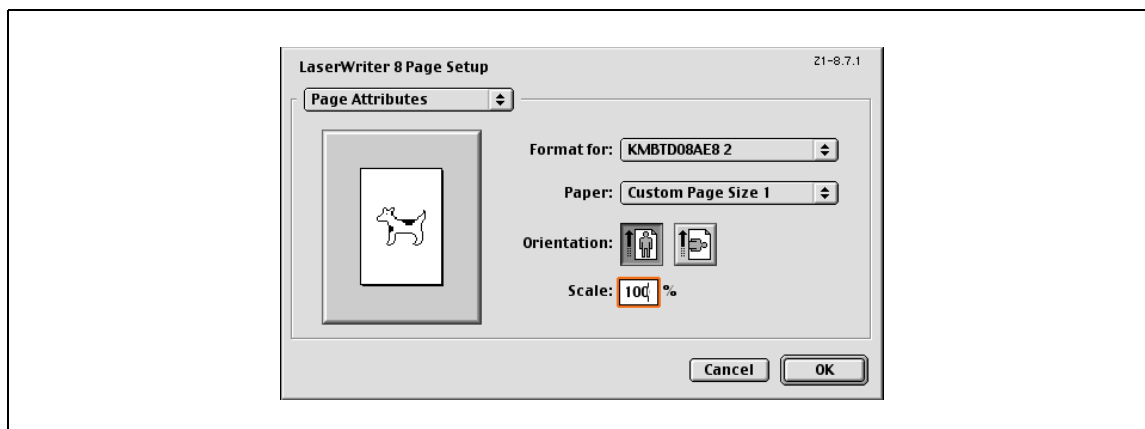
The "General" settings on the Print dialog box cannot be saved.

10.3 Parameter details

The printer driver functions are specified in the Page Attributes dialog box called from the Page Setup dialog box or the Layout/Finish dialog boxes called from the Print dialog box.

10.3.1 Page Attributes

In the [File] menu, select "Page Setup" (or "Paper Setup").



Item	Description
Paper	Specifies the output paper size.
Orientation	Specifies the orientation of the original.
Scale	Specifies the enlargement and reduction ratio.



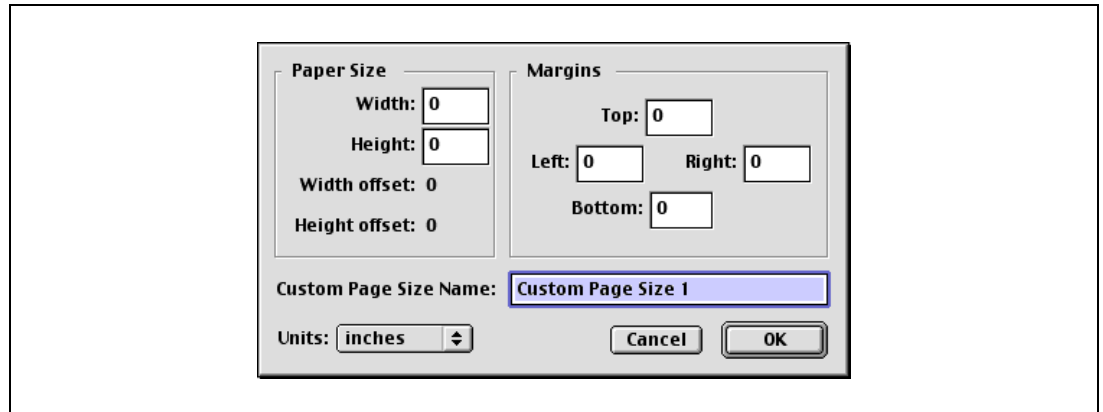
Note

To print on paper sizes other than the standard sizes, be sure to set the custom paper sizes in "Custom Size Settings" first. For details on registering a non-standard paper size, refer to "Setting Custom Page Size" on page 10-7.

10.3.2 Setting Custom Page Size

Select "Custom Paper Size" on the Page Setting dialog box.

- 1 In the [File] menu, select "Paper Setup" (or "Page Setup").
- 2 Select "Custom Page Sizes".
- 3 Click [Add].
- 4 Specify settings and enter the "Custom Page Size Name".



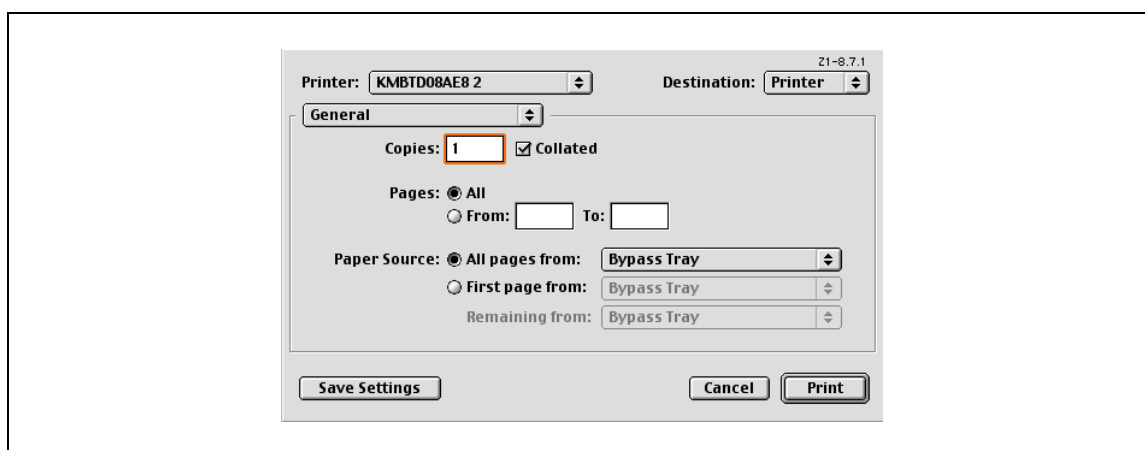
- Paper Size: Specifies the intended paper size.
- Margins: Specifies the paper margins.
- Custom Page Size Name: Enter the registered name for the specified paper size and margins, and then click the [OK] button.
- Units: Selects the specified unit.

- 5 Click the [OK] button.

This saves the custom page size, which can be selected from the "Paper" drop-down list in the Page Attributes dialog box.

10.3.3 General

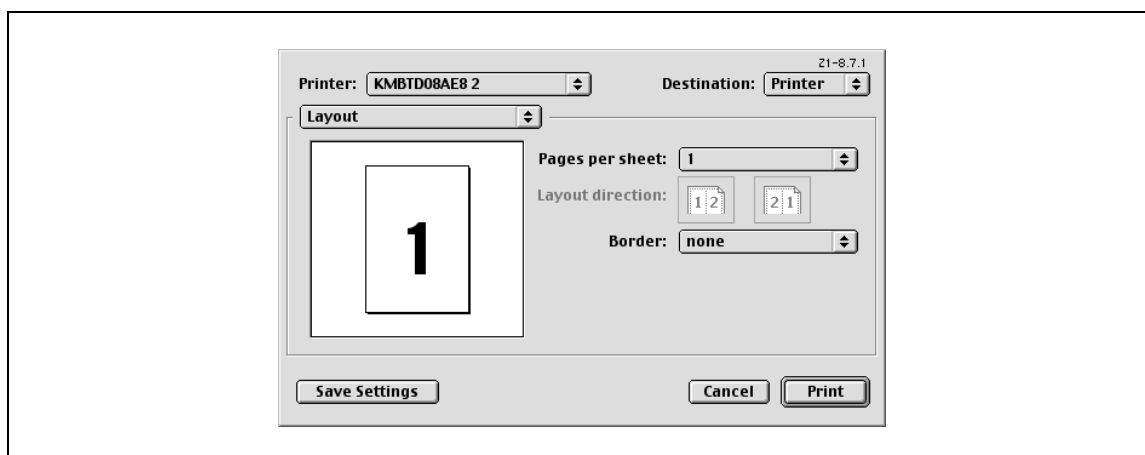
In the [File] menu, select "Print".



Item	Description
Copies	Specifies the number of copies to be printed.
Collated	Specifies whether to print multiple copies by collating them.
Pages	Specifies the print range to print.
Paper Source	Selects the paper tray to be used.

10.3.4 Layout (Pages per sheet)

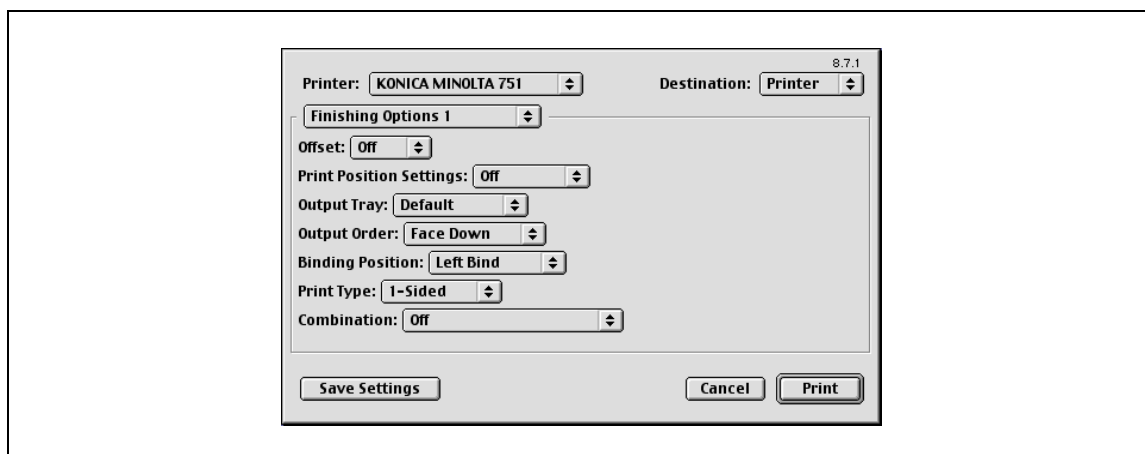
Specify to print multiple pages on one page.



Item	Description
Pages per sheet	Allocates multiple pages in one page.
Layout direction	Specifies the document page order.
Border	Specifies the borders around pages.

10.3.5 Printer specific options (Finishing Options 1 to 3)

Specifies the printer specific options. These options are specified when functions of this machine such as staple and punch are to be used.



Item	Description
Offset	Specifies offset.
Print Position Settings	Specifies the print position when the paper size is "Wide Paper" or "Custom Size".
Output Tray	Selects the output tray.
Output Order	Specifies output paper to be facing up or facing down.
Binding Position	Selects the binding position.
Print Type	Performs 2-sided printing.
Combination	Performs booklet printing.
Staple	Performs stapling.
Punch	Performs hole punching.
Fold	Performs folding.
Image Shift	Set the Image Shift.
Front Cover	Attaches a front cover page.
Front Cover Tray	Selects the paper tray for the front cover.
Back Cover	Attaches a back cover page.
Back Cover Tray	Selects the paper tray for the back cover.
Front Cover from Post Insertter	Prints the document with a front cover attached from the post inserter.
Back Cover from Post Insertter	Prints the document with a back cover attached from the post inserter.
Transparency Interleave	Inserts interleaves between overhead projector transparencies.
Interleave Tray	Selects the paper tray for the transparency interleaves.
Output Method	Specifies whether to stop printing temporarily after one copy of the document has been printed, so that the proof print can be checked.
Resolution	Specifies the resolution.
Smoothing (Graphic)	Adjusts smoothing of a chart and graph in the original to the text or photo settings.
Print Density	Adjust the printing density to save toner consumption. And make printing thinly for a draft.



...

Reminder

The "Staple" and "Fold & Staple" functions are available only if the optional finisher or Z folding unit is installed.

The "Punch" function is available only if the punch kit or Z folding unit is installed with the optional finisher.

The "Front Cover from Post Inserter" and "Back Cover from Post Inserter" functions are available only if the optional post inserter is installed.



Function detail description

11 Function detail description

11.1 Proof print

The proof print function is a feature used when printing out multiple copies. It allows the machine to output one copy and pause before printing the remaining number of copies. This prevents copy errors from occurring.

When printing, use the printer driver to specify Proof Print, and use the control panel to execute printing of the remaining number of copies.

11.1.1 Setting up the printer driver

The following five printer drivers support setup of this feature:

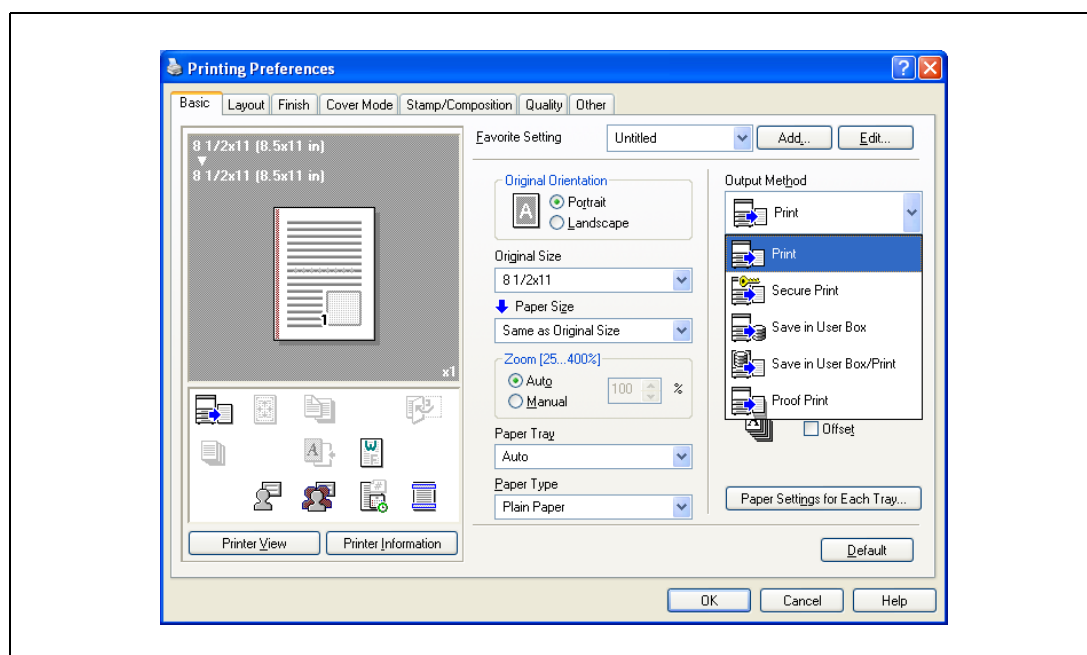
- PCL driver
- PS driver
- XPS driver
- PS-PPD driver for Mac OS X
- PS-PPD driver for Mac 9.2

Print with following settings specified:

- Output Method: "Proof Print"
- Number of Copies: Two or more

For Windows

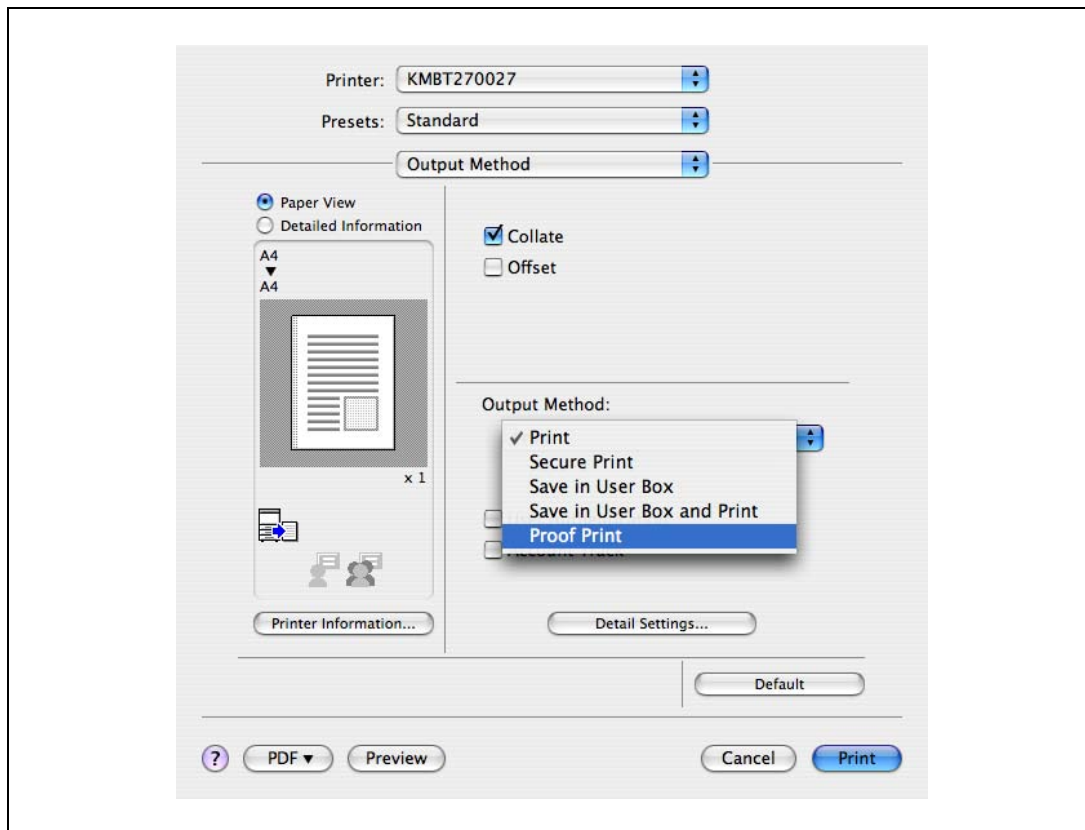
- 1 Click the Basic tab.
- 2 Select "Proof Print" from options under "Output Method".



- 3 Specify the number of copies to be printed.
One copy is printed for checking.

For Mac OS X

- 1 Display the "Output Method" dialog box.
- 2 Select "Proof Print" from options under "Output Method".



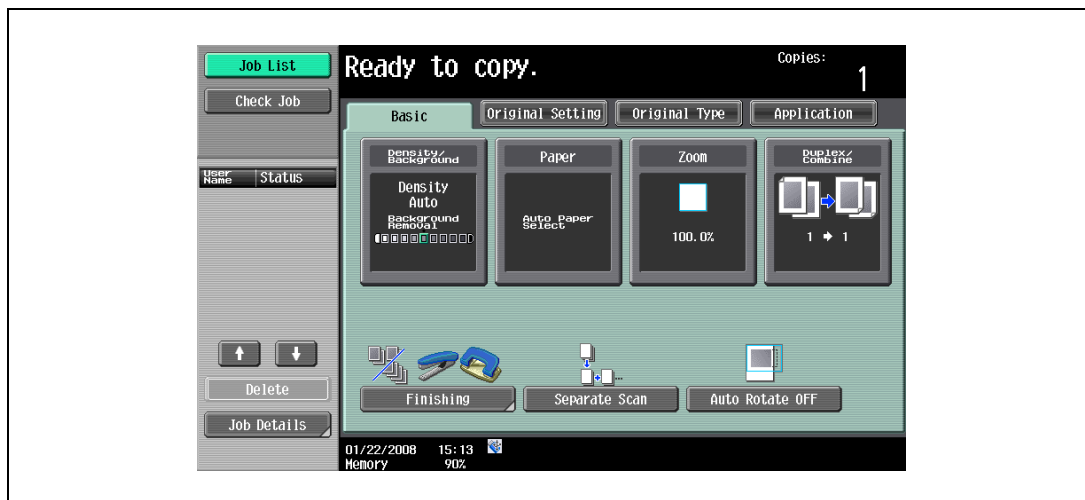
- 3 Specify the number of copies to be printed.
One copy is printed for checking.

**Note**

In OS 9.2, select "Output Method" in the "Finishing Option 3" dialog box.

11.1.2 Recalling a job from the control panel

- 1 Touch [Job List] in the main control panel, then [Job Details].
 - For details on using the keys in the control panel, refer to the User manual – Copy Operations.





The Print screen appears.

- 2 With [Current Jobs] displayed, touch [Release Held Job].



The Release Held Job screen appears.

- 3 From the job list, select the job to be printed.
- To print the remaining number of copies, continue with step 6.
 - To change the print settings, continue with step 4.
 - If the job you want to release is not displayed, touch  or  until the desired job is displayed.
If a wrong job was selected, touch the button for the selected job again to cancel it.



- 4 Touch [Change Setting].
The Change Setting screen appears.
- 5 Change the print settings on the Change Settings screen, and then touch [OK].
- To check the results of setting changes, select the job whose sample copy is to be printed from the job list, and then touch [Proof Copy] on the control panel.
One copy is printed for checking.
Using [Proof Copy] restores the previous settings. Specify the settings again as necessary.
The Release Held Job screen appears again.
- 6 Touch [OK], or press the [Start] key in the control panel.
The stored job is changed to an active job, then printed.



Note

To cancel printing the job, touch [Cancel].

11.2 Secure print

The secure print function saves print jobs in the secure print user box on the machine. As a job is output only when the ID and password are entered from the control panel, it is helpful for outputting confidential documents.

When printing, use the printer driver to specify Secure Print, and then use the control panel to execute printing.

11.2.1 Setting up the printer driver

The following four printer drivers support setup of this feature:

- PCL driver
- PS driver
- XPS driver
- PS-PPD driver for Mac OS X



Note

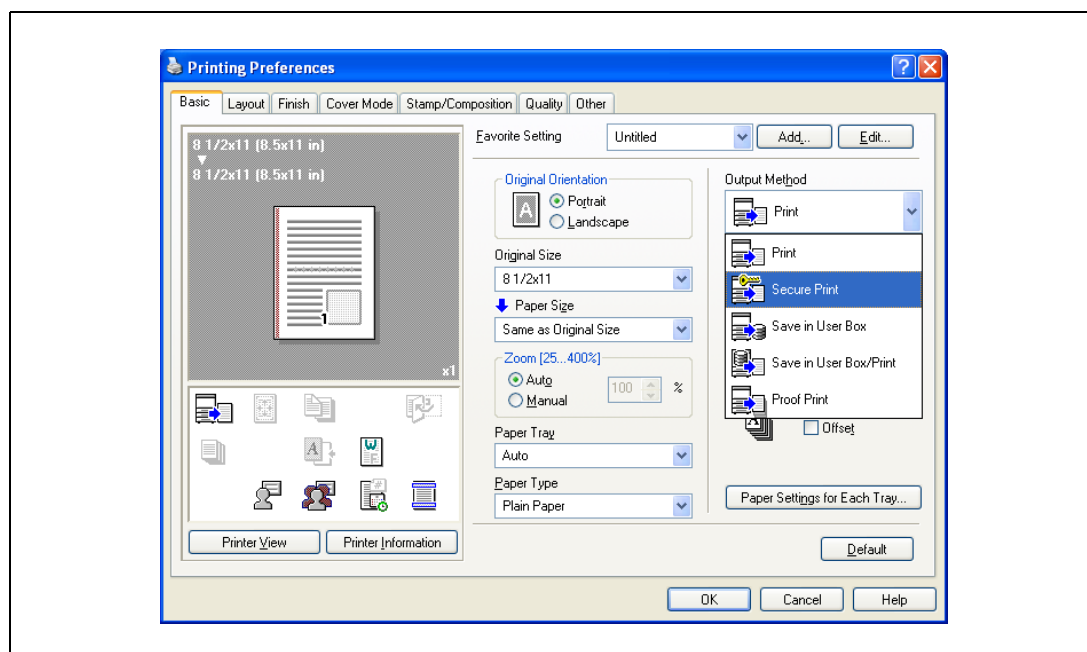
In order to use [Secure Print], a hard disk is optionally required.

Print with the following setting specified:

- Output Method: "Secure Print"

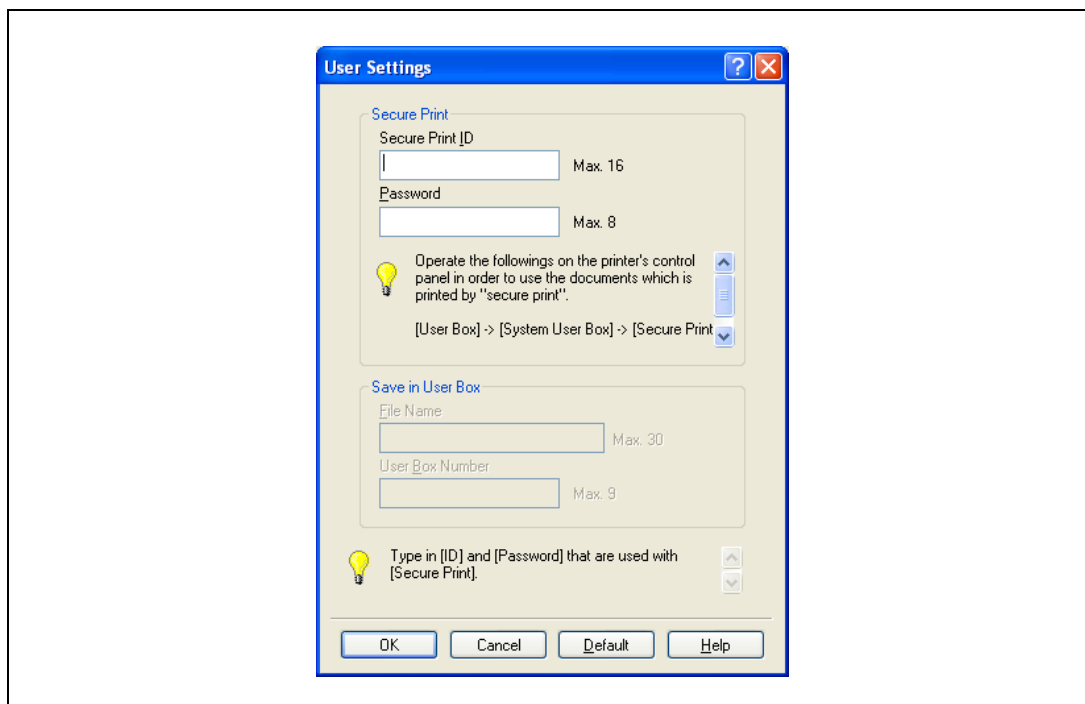
For Windows

- 1 Click the Basic tab.
- 2 Select "Secure Print" from the "Output Method" drop-down list.



3 Enter the ID and password.

- When password rules are enabled on this machine, the passwords that can be used with Secure Print are limited and the jobs are deleted when a password that does not comply with the password rules is entered. For the password rules, refer to the User manual – Copy Operations.



4 Print the document.

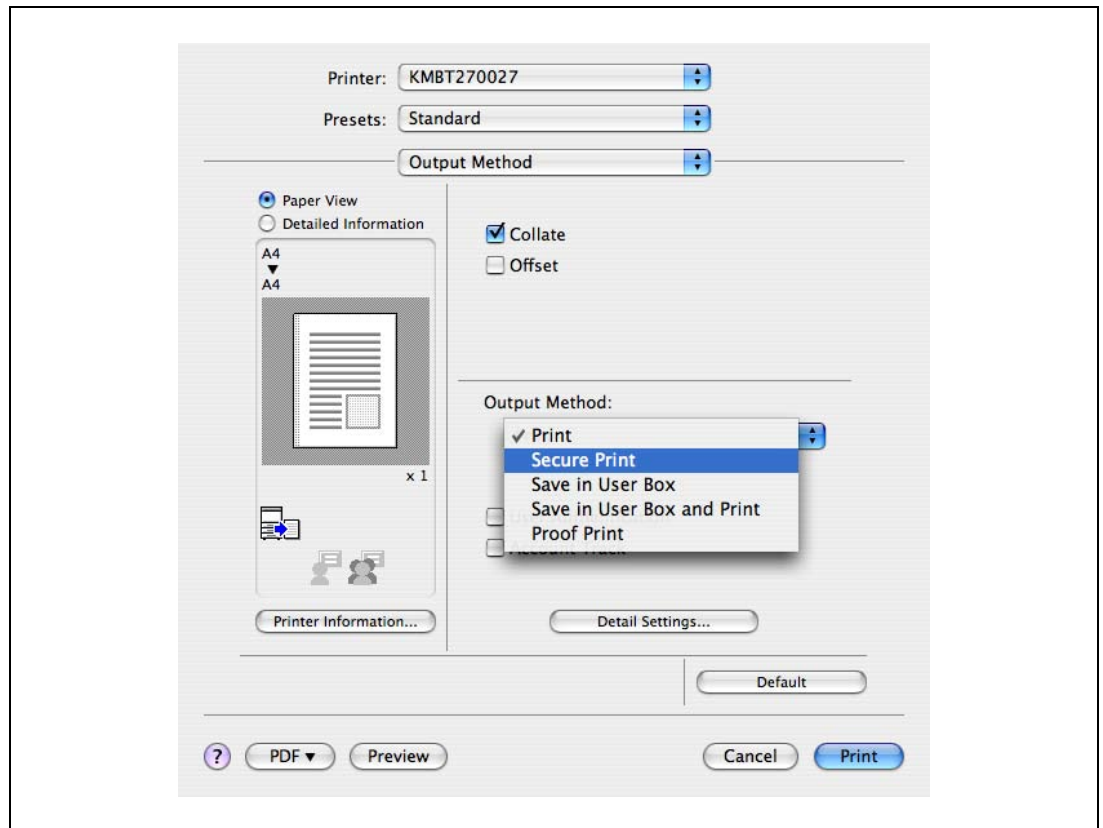


Reminder

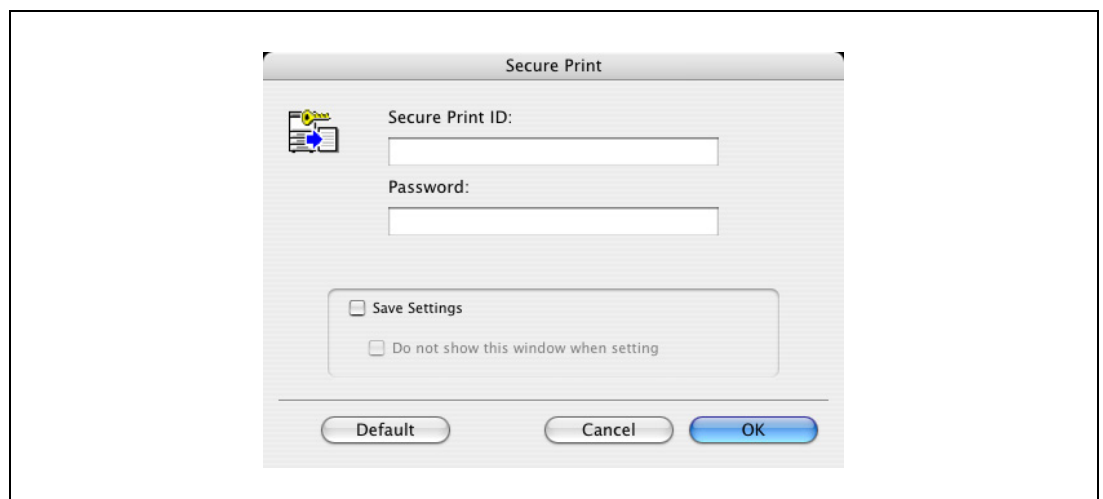
The ID and password that are required to print a secured document can be preregistered in the User Settings dialog box on the Basic tab. If the same ID and password always used, by preregistering them, the dialog box for entering the ID and password will not appear when selecting "Secure Print".

For Mac OS X

- 1 Display the "Output Method" dialog box.
- 2 Select "Secure Print" from the "Output Method" drop-down list.



- 3 Enter the ID and password.
 - When password rules are enabled on this machine, the passwords that can be used with Secure Print are limited and the jobs are deleted when a password that does not comply with the password rules is entered. For the password rules, refer to the User manual – Copy Operations.



- 4 Print the document.

**Note**

Select the "Save Settings" check box to save the specified settings. In addition, if the "Do not show this window when setting" check box is selected, the dialog box does not appear when the function is specified.

11.2.2 Recalling a job from the control panel

"Secure Print" jobs are saved in the secure print user box. To print a secured document, the ID and password that were specified in the printer driver are required.



Detail

For details on using the keys in the control panel, refer to the *User manual – Copy Operations*.

For details on the box functions of this machine, refer to the *User manual – Box Operations*.

For details on specifying a setting for "Confidential Document Access Method", refer to the *User manual – Copy Operations*.



Note

Secured documents are automatically deleted after a certain length of time has elapsed since their registration. The default setting for this time is specified as 1 day, and the value can be specified in the Administrator mode. For details, refer to "Auto Delete Secure Document" on page 12-45.

To manually delete a secured document that was printed, operate in the Administrator mode. For details, refer to "Delete Secure Print Documents" on page 12-44.

When "Confidential Document Access Method" is set to "Mode 1"

- 1 Press the [User Box] key in the control panel of this machine, and then touch [Use Document].



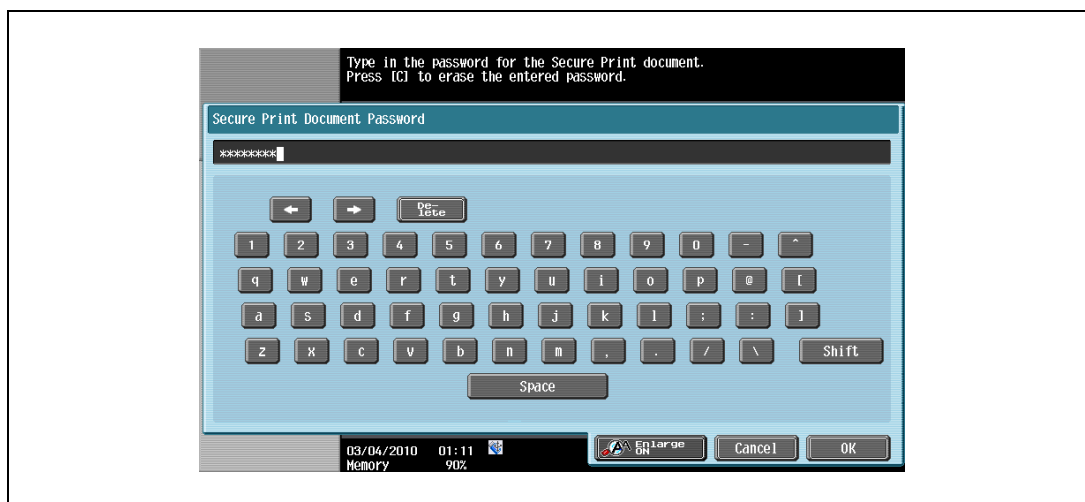
- 2 Select [System User Box], touch [Secure Print User Box], and then touch [OK].



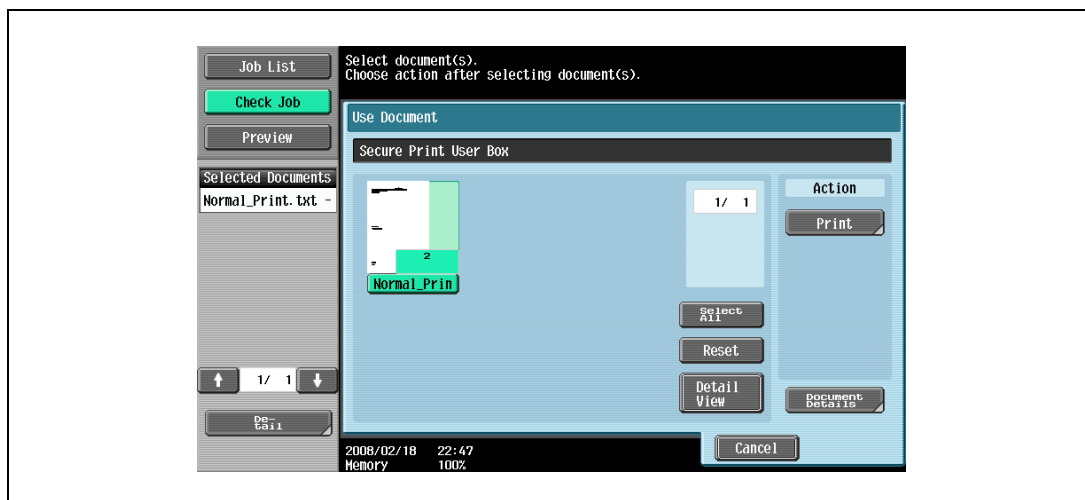
- 3 Type in the ID for the secured document, and then touch [OK].



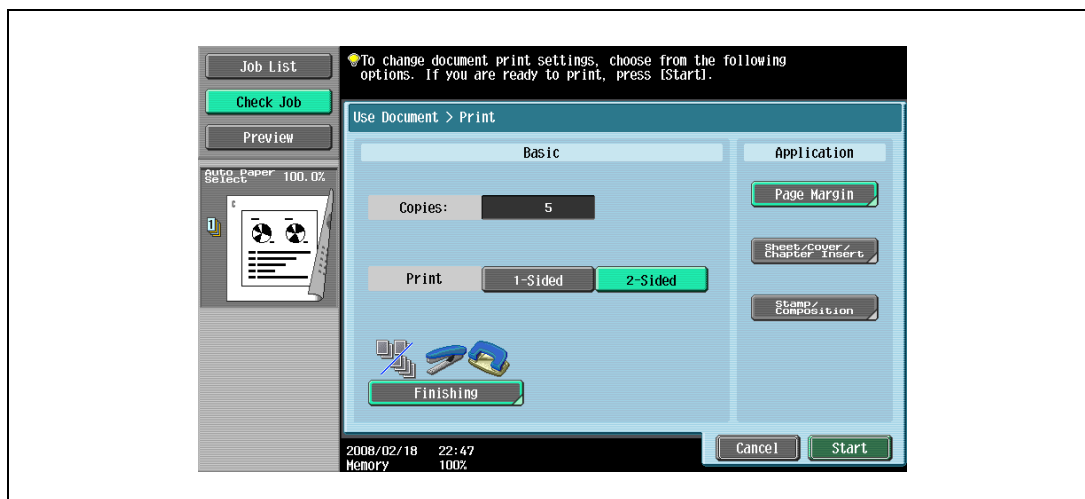
- 4 Type in the password for the secured document, and then touch [OK].
The secure print document list that match the entered ID and password appears.



- 5 Select the document to be printed, and then touch [Print].
– The contents and a preview of the document can be checked by touching [Detail View].



- 6 If necessary, change the print settings.



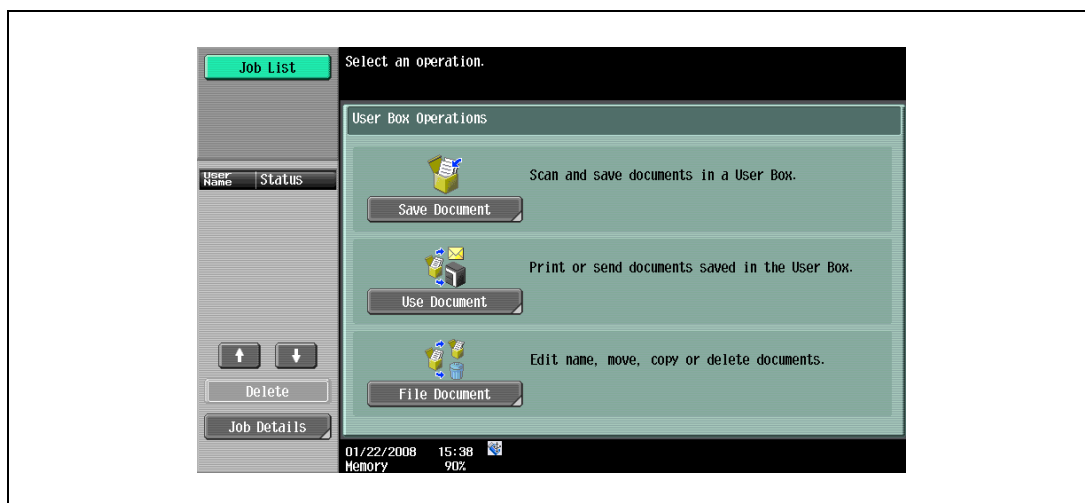
- 7 Touch [Start], or press the [Start] key in the control panel.

– To cancel printing the job, touch [Cancel].

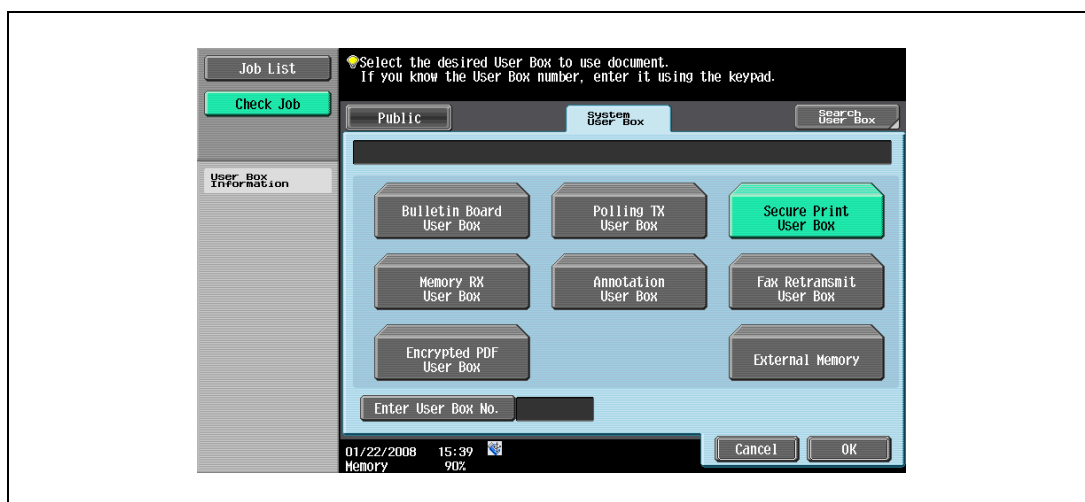
The document is printed.

When "Confidential Document Access Method" is set to "Mode 2"

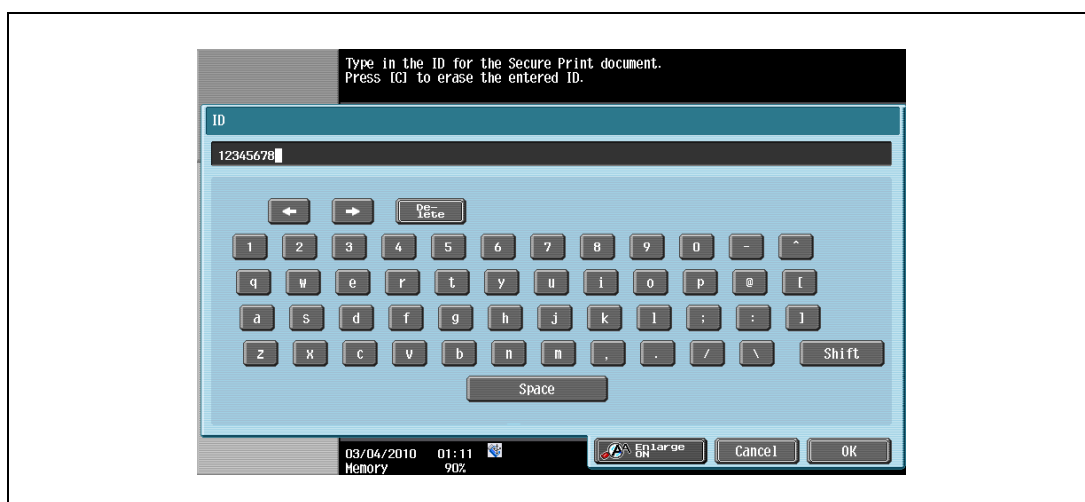
- 1 Press the [User Box] key in the control panel of this machine, and then touch [Use Document].



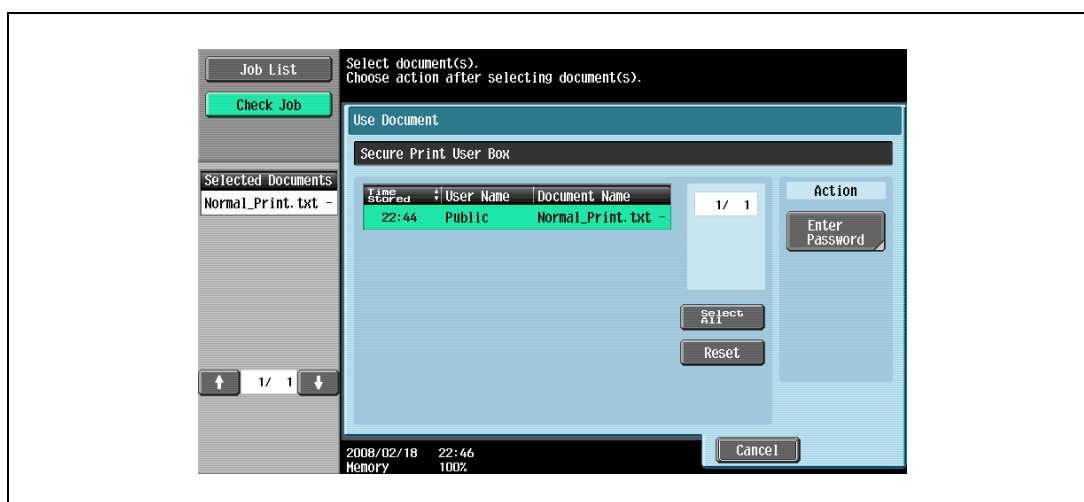
- 2 Select [System User Box], and touch [Secure Print User Box].



- 3 Type in the ID for the secured document, and then touch [OK].
The secure print document list that match the entered ID appears.



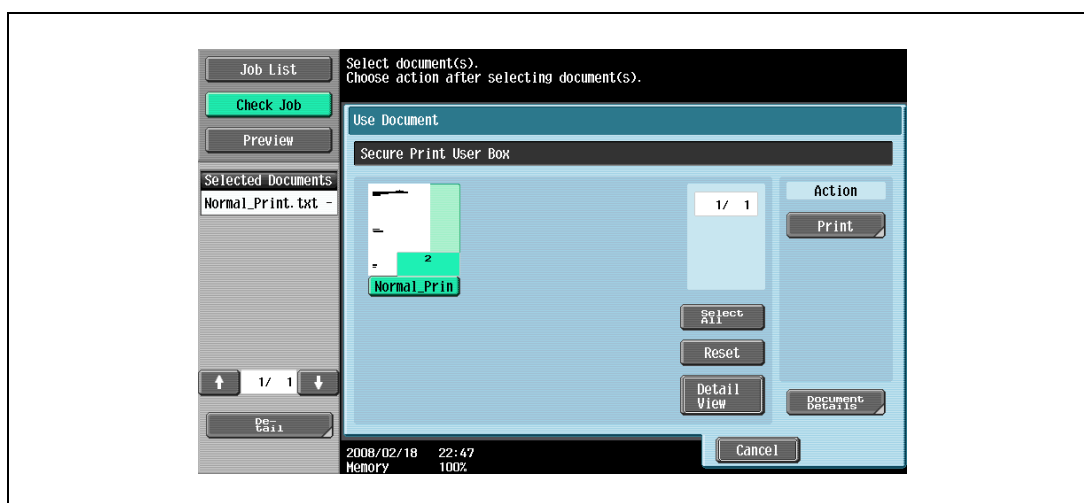
- 4 Select the document to be printed, and then touch [Enter Password].
 - The contents and a preview of the document can be checked by touching [Detail View].



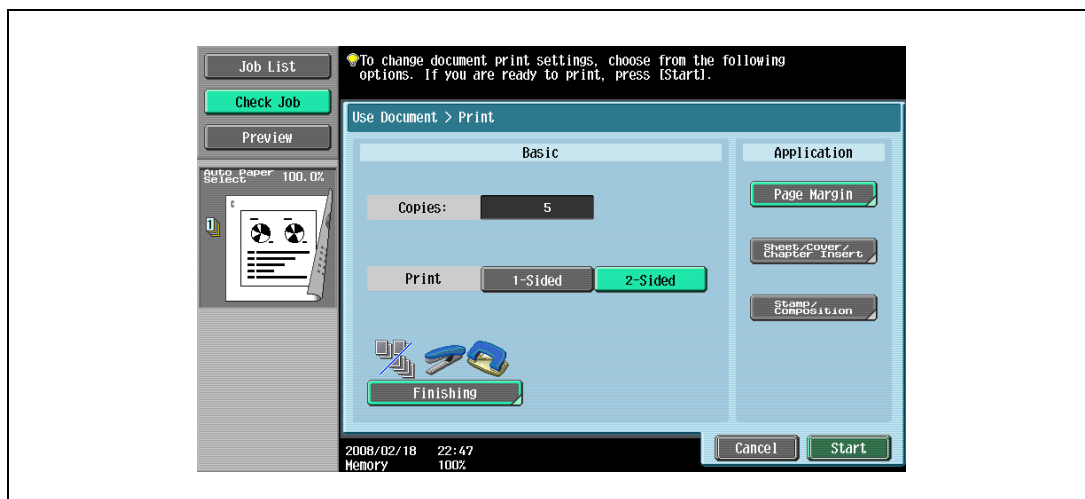
- 5 Type in the password for the secured document, and then touch [OK].
 - If "Prohibit Functions When Authentication Error" in Administrator mode is set to "Mode 2" and an incorrect document password is entered the specified number of times, the selected document is locked. Contact the administrator to cancel operation restrictions.

The secure print document list that match the entered password appears.

- 6 Select the document to be printed, and then touch [Print].



- 7 If necessary, change the print settings.



- 8 Touch [Start], or press the [Start] key in the control panel.

– To cancel printing the job, touch [Cancel].

The document is printed.

11.3 Save in User Box

The Save in User Box function saves print jobs in the user box on the machine. Because a user box can be specified from the control panel to output a job. This function is also useful for document distribution.

When printing, use the printer driver to specify "Save in User Box", and then use the control panel to execute output or transmission.



Detail

For details on the User Box functions of this machine, refer to the User manual – Box Operations.

11.3.1 Setting up the printer driver

The following four printer drivers support setup of this feature:

- PCL driver
- PS driver
- XPS driver
- PS-PPD driver for Mac OS X



Note

In order to use [Save in User Box] or [Save in User Box/Print], a hard disk is optionally required.

Print with the following settings specified:

- Output Method: "Save in User Box" or "Save in User Box/Print"



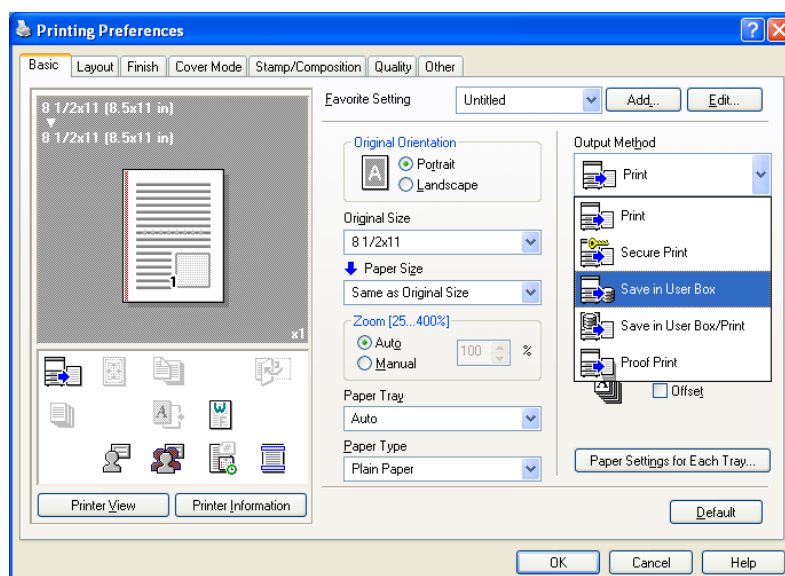
Note

To save in the user box and print at the same time, select "Save in User Box/Print".

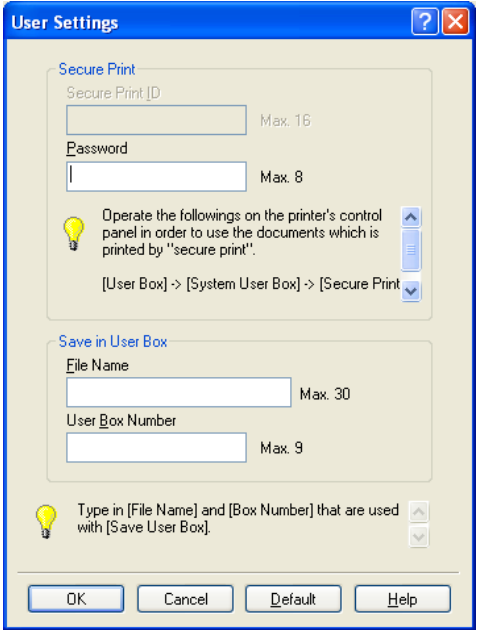
Be sure to create the user box of the save location in advance with the Box functions of this machine. For details on the Box functions of this machine, refer to the User manual – Box Operations.

For Windows

- 1 Click the Basic tab.
- 2 Select "Save in User Box" or "Save in User Box/Print" from the "Output Method" drop-down list.



- 3 Enter the file name of the document and the user box number for the save location.



The image shows a 'User Settings' dialog box with two main sections: 'Secure Print' and 'Save in User Box'. The 'Secure Print' section includes a 'Secure Print ID' field (Max. 16) and a 'Password' field (Max. 8). Below these is a lightbulb icon and a note: 'Operate the followings on the printer's control panel in order to use the documents which is printed by "secure print".' followed by a sequence: '[User Box] -> [System User Box] -> [Secure Print]'. The 'Save in User Box' section includes a 'File Name' field (Max. 30) and a 'User Box Number' field (Max. 9). Below these is another lightbulb icon and a note: 'Type in [File Name] and [Box Number] that are used with [Save User Box]'. At the bottom are buttons for 'OK', 'Cancel', 'Default', and 'Help'.

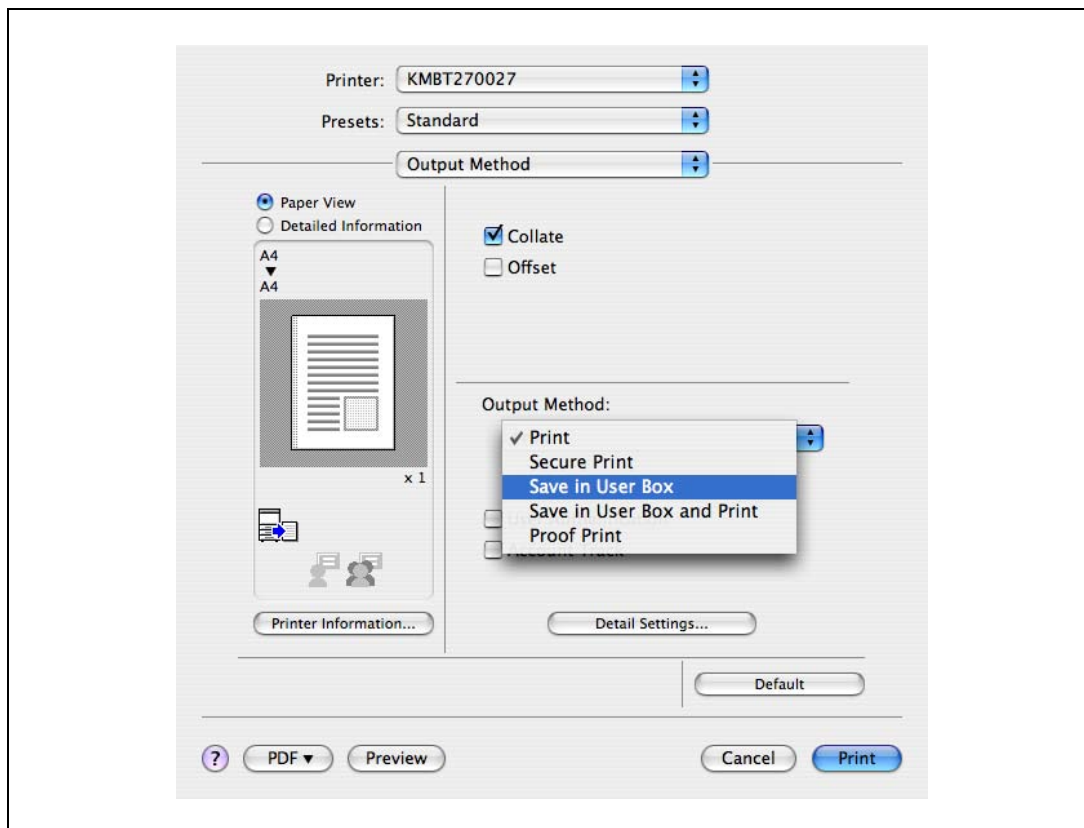
- 4 Print the document.

**Reminder**

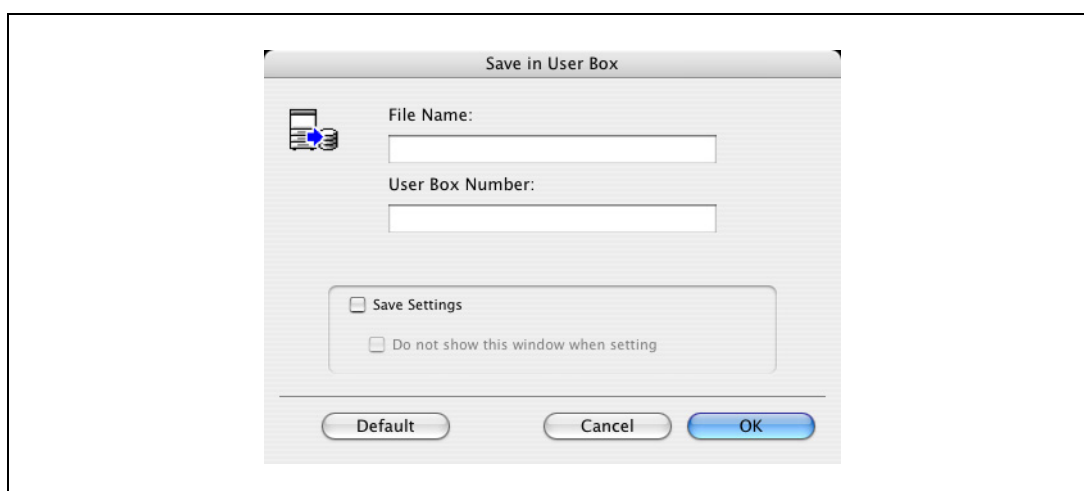
The file name and user box number that are required to save in a user box can be preregistered in the User Settings dialog box on the Basic tab. If the same file name and user box number are always used to save document, by preregistering them, the dialog box for entering the file name and user box number will not appear when selecting "Save in User Box".

For Mac OS X

- 1 Display the "Output Method" dialog box.
- 2 Select "Save in User Box" or "Save in User Box/Print" from the "Output Method" drop-down list.



- 3 Enter the file name of the document and the user box number for the save location.
 - Select the "Save Settings" check box to save the specified settings. In addition, if the "Do not show this window when setting" check box is selected, the dialog box does not appear when the function is specified.



- 4 Print the document.

11.3.2 Recalling a job from the control panel

"Save in User Box" and "Save in User Box/Print" jobs are saved in a user box of the specified number.

To print a document saved in a user box, open the specified user box to retrieve the document. If a password is specified for the user box, the user box password is required.



Detail

For details on using the keys in the control panel, refer to the *User manual – Copy Operations*.

For details on the Box functions of this machine, refer to the *User manual – Box Operations*.

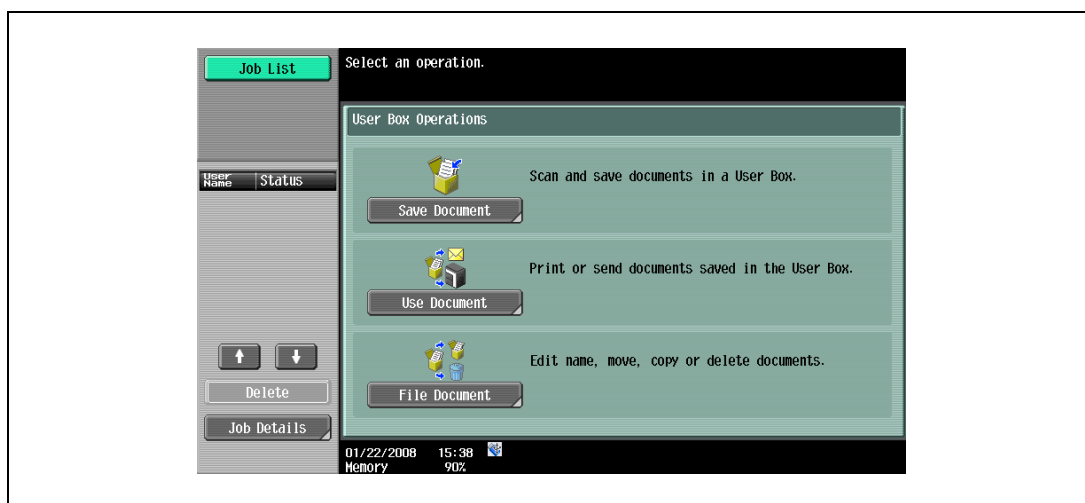


...

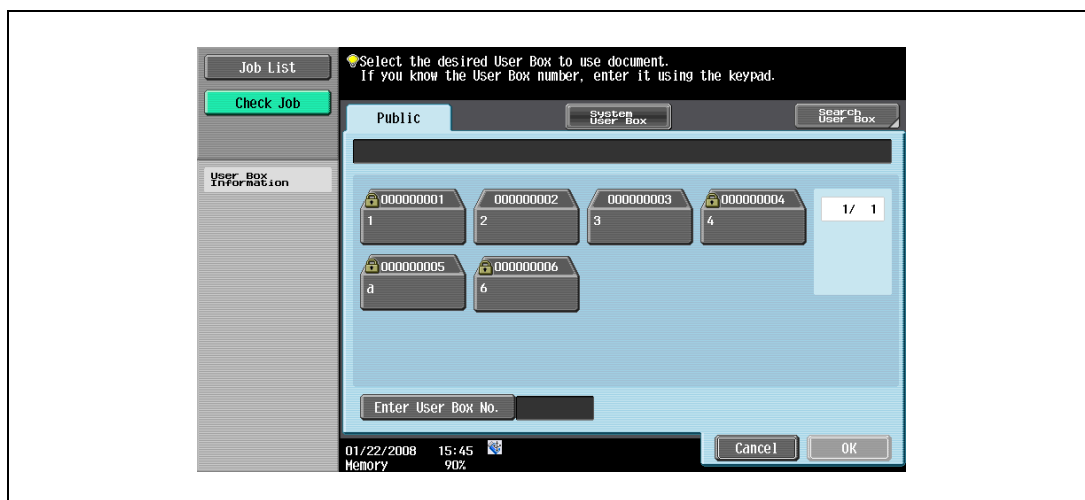
Note

Box documents are automatically deleted after a certain length of time has elapsed since their registration. The default setting of this time is specified as 1 day, and the setting can be specified when creating the user box.

- 1 Press the [User Box] key in the control panel of this machine, and then touch [Use Document].

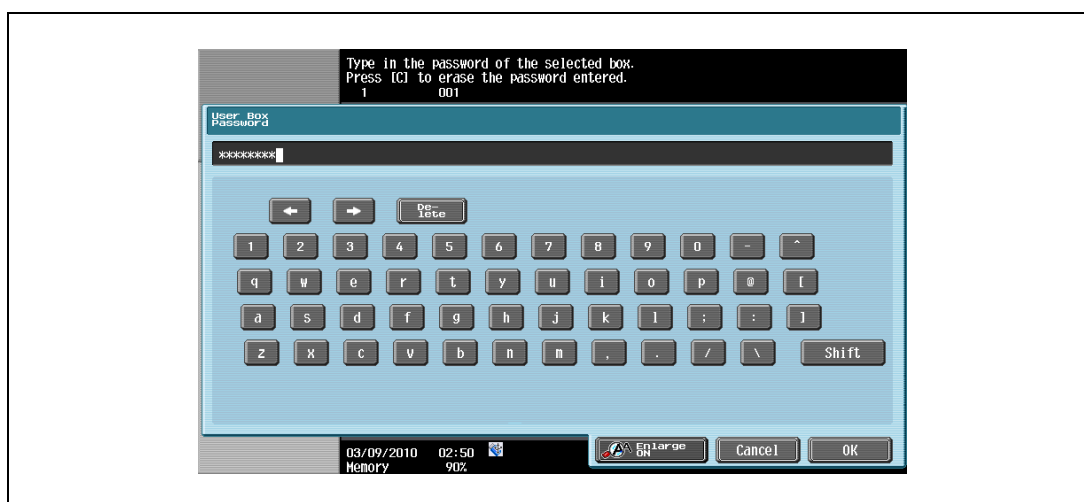


- 2 Select the desired user box number, and then touch [OK].
User boxes are classified as public, private, or group. Specify the desired user box from the classification of the saved user box.
The user box number can be used to specify the target box directly.
 - If a password is specified for the user box, continue with step 3.
 - If a password is not specified for the user box, continue with step 4.



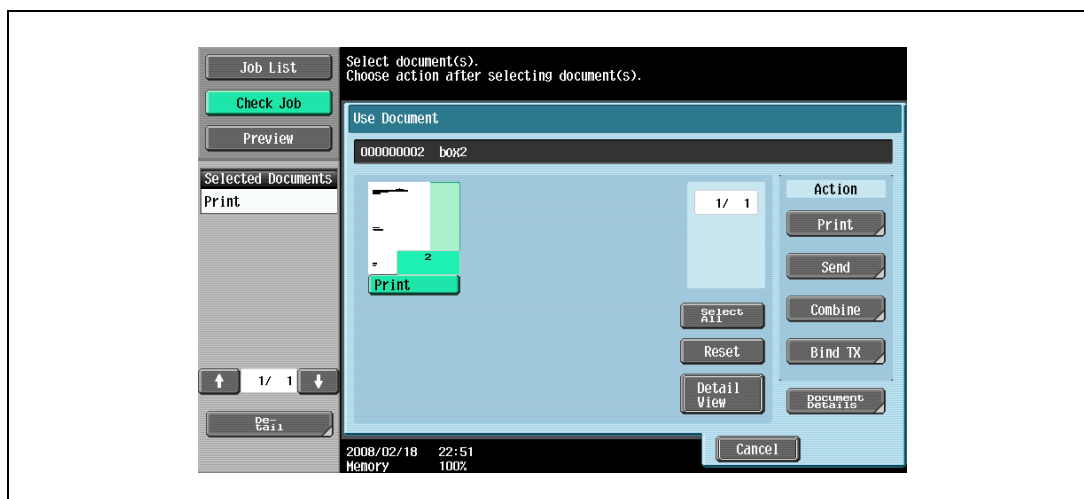
- 3 Type in the password for the user box, and then touch [OK].

A list of documents in the specified user box appears.

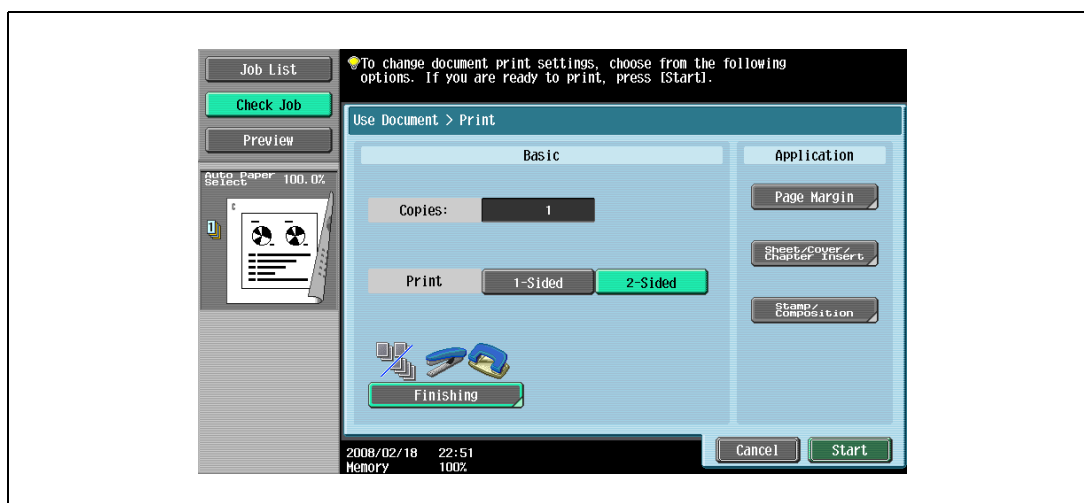


- 4 Select the document to be printed, and then touch [Print].

– Documents saved in user boxes can be transmitted via E-Mail or fax. For details on the User Box functions of this machine, refer to the User manual – Box Operations.



- 5 If necessary, change the print settings.



- 6 Touch [Start], or press the [Start] key in the control panel.
 - To cancel printing the job, touch [Cancel].The document is printed.

11.4 Printing on a machine with the user authentication set up

When the user authentication function has been specified on the machine, a user name and password must be entered when printing.



Reminder

If a print job is sent using a user name or password that is not valid for "Authentication Mode" on the machine, or if a job is sent without setting up "User Authentication", the operation is not authenticated by the machine and the job is canceled.

If the user authentication function is set up on the machine and the authentication operation restriction function is set to mode 2, the relevant user is locked and access may be blocked if the authentication information is not entered correctly.

The following four printer drivers support setup of this feature:

PCL driver

PS driver

XPS driver

PS-PPD driver for Mac OS X



Note

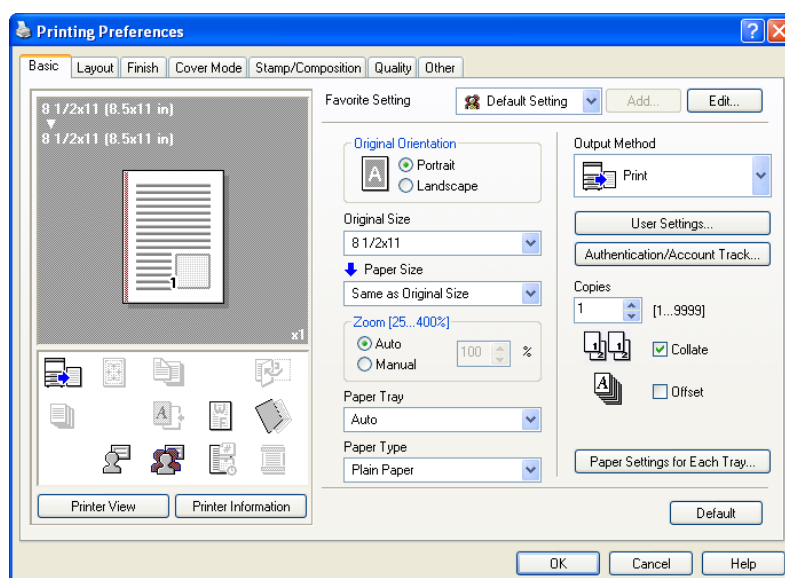
If printing is not allowed, printing cannot be performed even when used by a registered user. For details on the user authentication details, consult the administrator of this machine.

If performing user authentication with an optional authentication unit, enter the user name and password. For refer to the manual provided with the authentication unit.

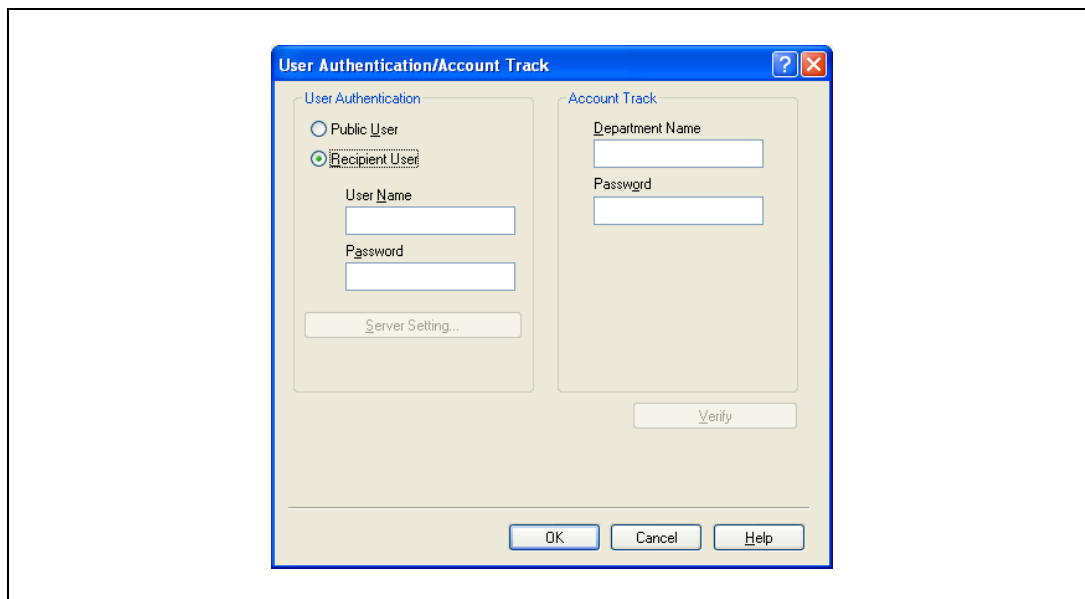
11.4.1 Setting up the printer driver

For Windows

- 1 Click the [Properties] button (or [Detail Setting] button) in the Print dialog box to display the Printing Preferences dialog box.
- 2 Click the Basic tab.
- 3 Click the [Authentication/Account Track] button.



- 4 Select "Recipient User", and then enter the user name and password.
 - If the machine has been set to permit public users, "Public User" can be selected to access the machine.
 - The password can also be preset in the printer driver as a default value so that it does not have to be set for each job.



- When user authentication is performed with the PageScope Authentication Manager, you must enter the user information specified by the server administrator. The windows and input items that appear vary according to the settings. For details, contact your server administrator.

- 5 Click the [OK] button, and specify the desired settings, and then print the document.
 - If the entered user name is a name registered on the machine, the job is printed and counted as a job for the specified user.



Reminder

If the user authentication settings are not specified on the Configure tab, user authentication cannot be performed. If using the user authentication function, be sure to specify the settings on the Configure tab. For details, refer to "Configure tab" on page 8-5.

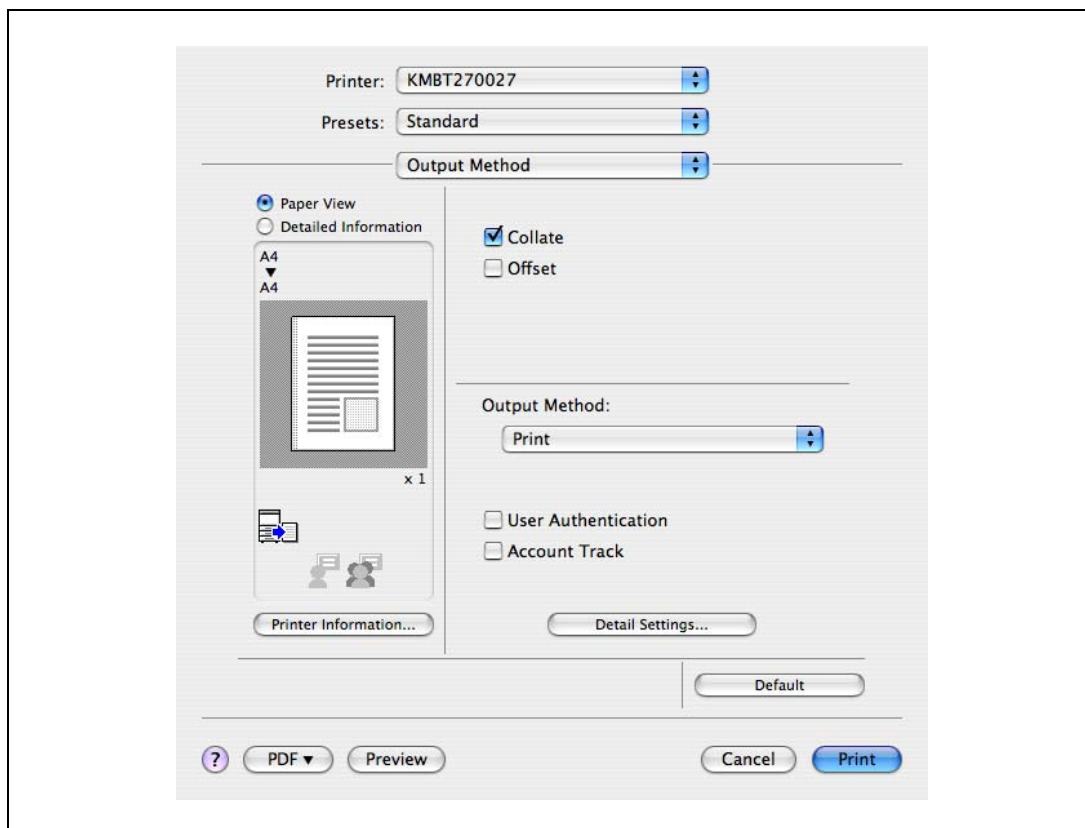
If performing user authentication on a server, the server settings must be specified. Click the [User Authentication Server Setting] button to select the server.

Click the [Verify] button to communicate with this machine and check whether authentication can be performed with the user that was entered. This function is not available unless the connection is enabled for communications with the machine.

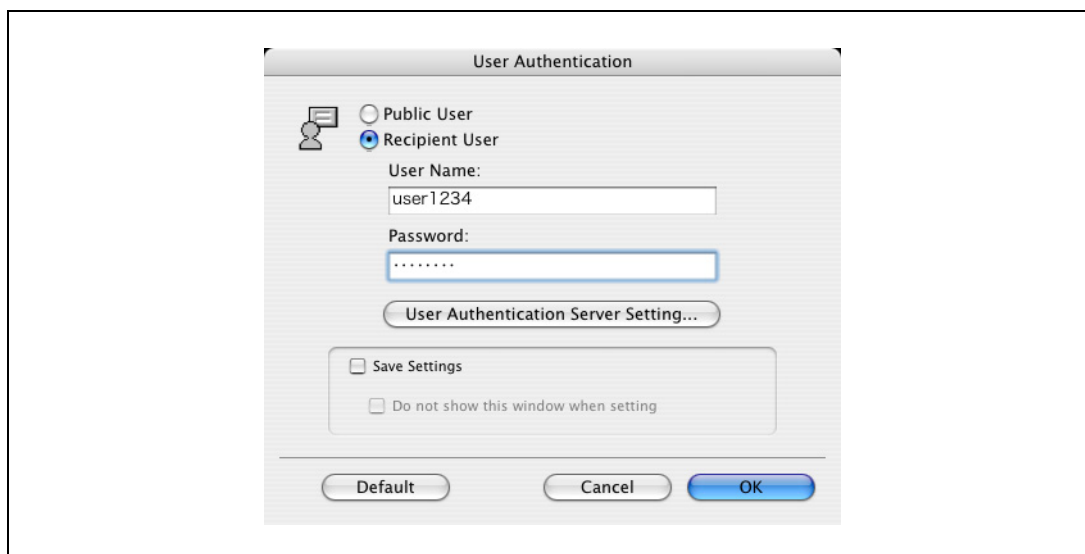
When authentication is performed using the PageScope Authentication Manager, in the Administrator Settings of the machine, set [System Connection] - [OpenAPI Settings] - [Authentication] to "OFF". For details, refer to the User manual – Copy Operations.

For Mac OS X

- 1 In the "File" menu, select "Print".
- 2 Select "Output Method".
- 3 Select the "User Authentication" check box.



- 4 Select "Recipient User", and then enter the user name and password.
 - If the machine has been set to permit public users, "Public User" can be selected to access the machine.



**Note**

Select the "Save Settings" check box to save the specified settings. In addition, if the "Do not show this window when setting" check box is selected, the dialog box does not appear when the function is specified.

If performing user authentication on a server, the server settings must be specified. Click the [User Authentication Server Setting] button to select the server.

11.5 Printing with the machine enabling the Account Track function

When the Account Track function is enabled on the machine, enter a department name (or a password) when printing a job.



Reminder

If a print job is sent using a password that is not valid for the Account Track function on the machine, or if a job is sent without specifying "Account Track", the machine does not authenticate the access and the job is canceled. When the account track settings are specified on the machine, the authentication operation restriction function is set to mode 2, and the authentication information is not entered correctly, the account may be locked and access may fail.

The following four printer drivers support setup of this feature:

PCL driver

PS driver

XPS driver

PS-PPD driver for Mac OS X



Note

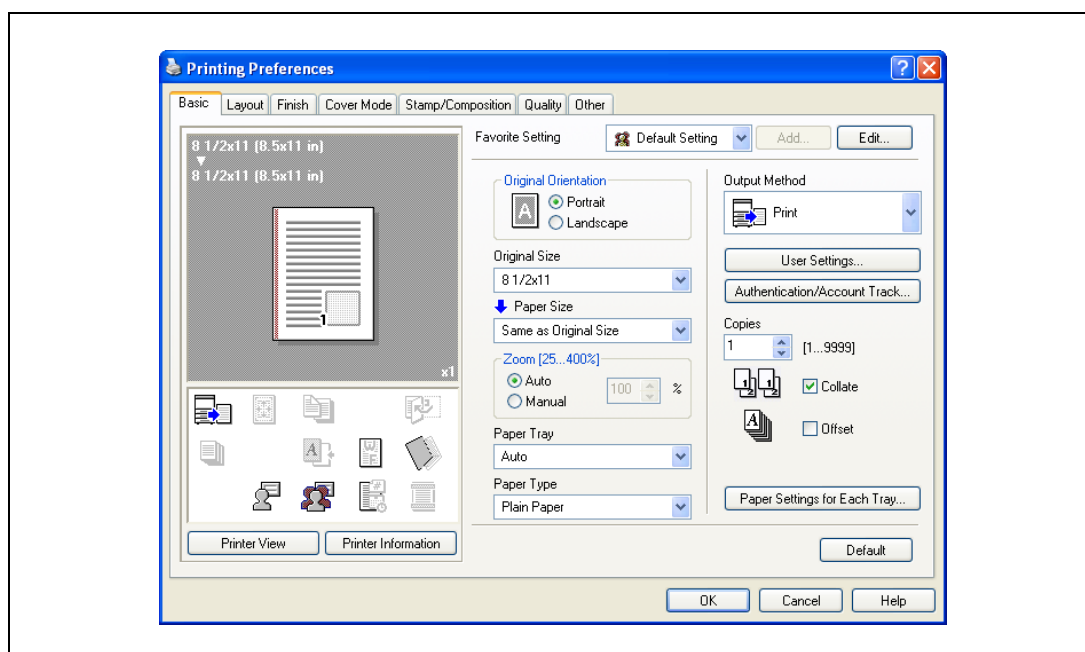
If printing is not allowed, printing cannot be performed even for a registered account.

For the Account Track function, contact the administrator of the machine.

11.5.1 Setting up the printer driver

For Windows

- 1 Click the [Properties] button (or [Detail Setting] button) in the Print dialog box to display the Printing Preferences dialog box.
- 2 Click the Basic tab.
- 3 Click the [Authentication/Account Track] button.



- 4 Enter the department name and password.
 - The password can also be preset in the printer driver as a default value so that it does not have to be set for each job.

- 5 Click the [OK] button, and specify the desired settings, and then print the document.
If the entered password is a password registered on this machine, the job is printed and counted as a job for the account.



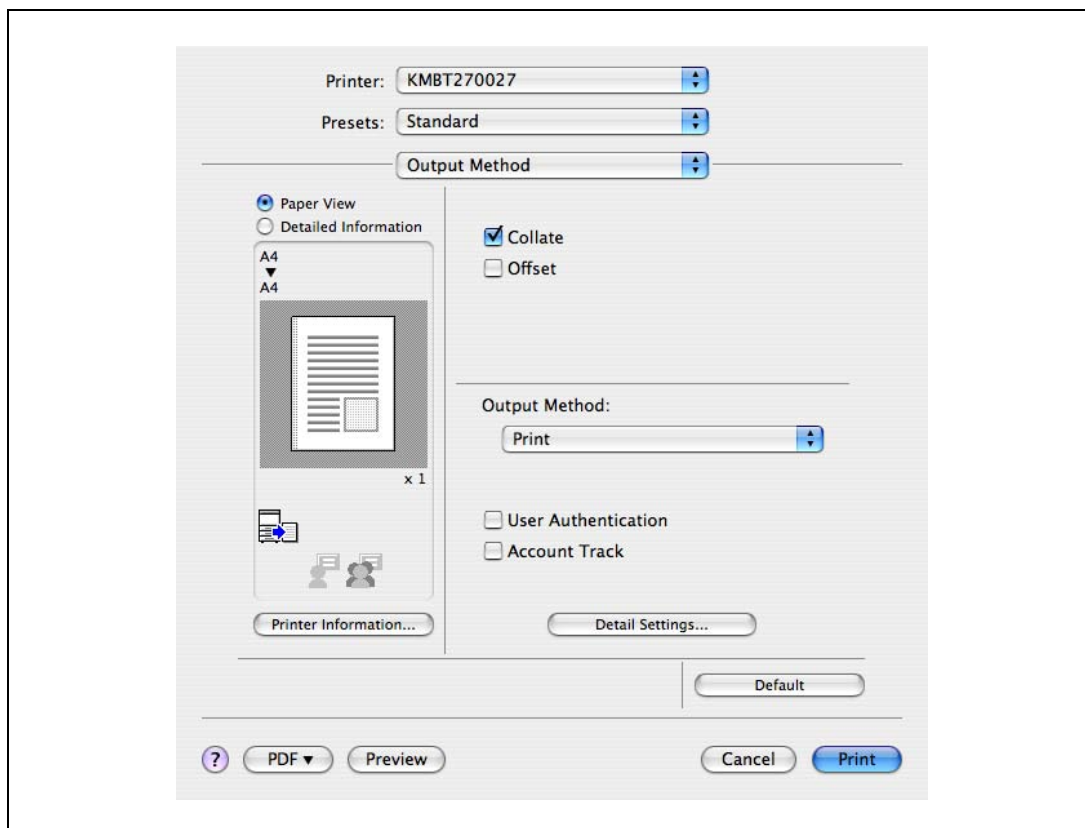
Reminder

If the account track settings are not specified on the Configure tab, account track cannot be performed. If using the Account Track function, be sure to specify the settings on the Configure tab. For details, refer to "Configure tab" on page 8-5.

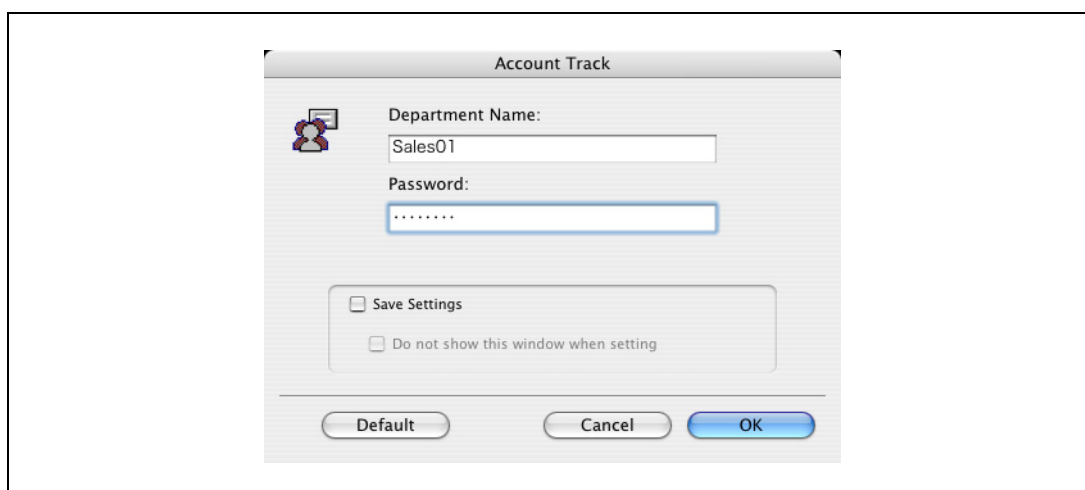
Click the [Verify] button to communicate with this machine and check whether authentication can be performed with the account that was entered. This function is not available unless the connection is enabled for communications with the machine.

For Mac OS X

- 1 In the "File" menu, select "Print".
- 2 Select "Output Method".
- 3 Select the "Account Track" check box.



- 4 Enter the department name and password.

**Note**

Select the "Save Settings" check box to save the specified settings. In addition, if the "Do not show this window when setting" check box is selected, the dialog box does not appear when the function is specified.

11.6 ID & Print

When the ID & Print function is used for printing, printing starts after authentication has succeeded through the entering of the User Name and Password from the operation panel of the machine. Therefore, confidentiality of documents can be maintained.

To use ID & Print, user authentication must be performed on the machine.

To print from a computer, enter User Name and Password on the printer driver, and then specify ID & Print.



Detail

To enable ID & Print when printing from a computer, specify it on the printer driver. For details, refer to "Setting up the printer driver" on page 11-29.

Print data using ID & Print is saved in the ID & Print User Box, and is automatically deleted from the ID & Print User Box after it is printed. Print data saved in the ID & Print User Box can also be printed by entering User Name and Password from the control panel of the machine to log on to the machine.



Detail

For details on operating the jobs saved in the ID & Print User Box, refer to "Recalling a job from the control panel" on page 11-33.

When the optional biometric authentication unit or IC authentication unit is used for user authentication, touching the authentication with the finger or IC card allows the user to print or log on.



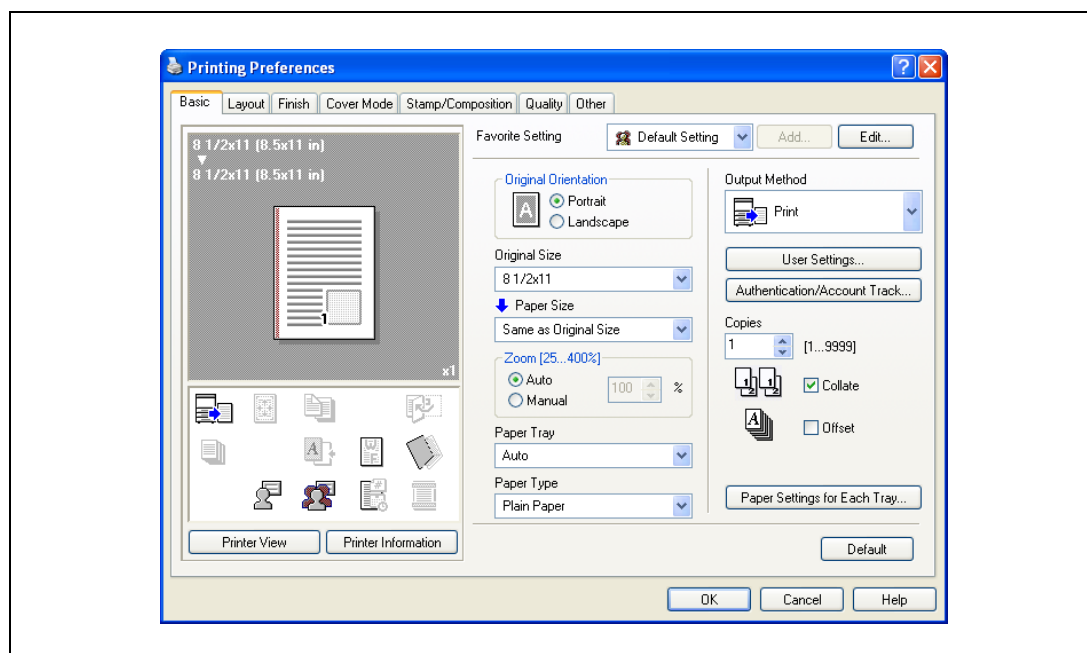
Detail

For details on printing or logging in using an authentication unit, refer to "Logging in via Authentication Unit" on page 11-36.

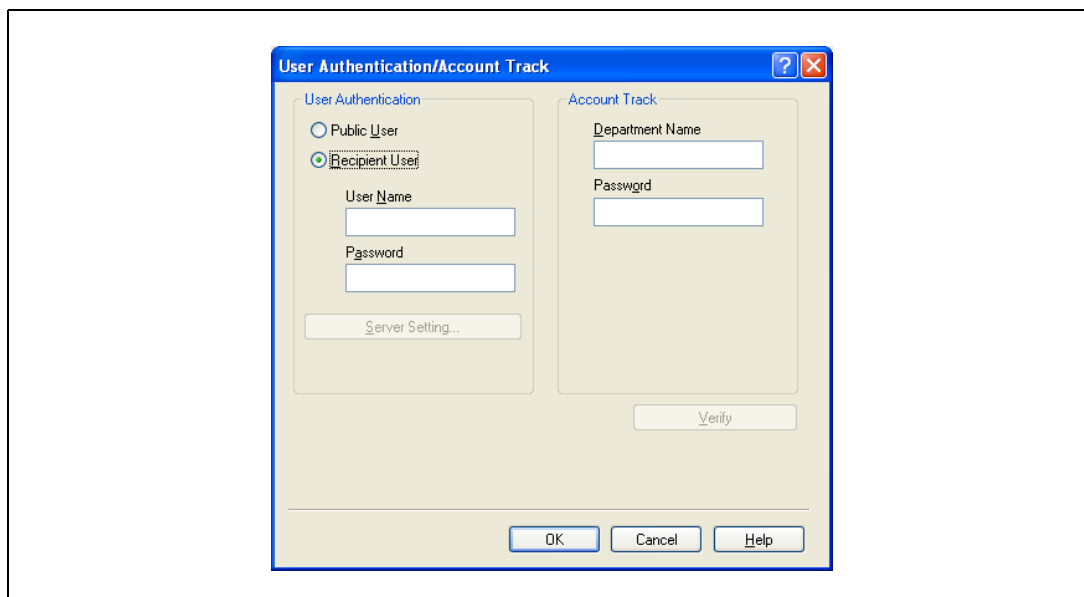
11.6.1 Setting up the printer driver

For Windows

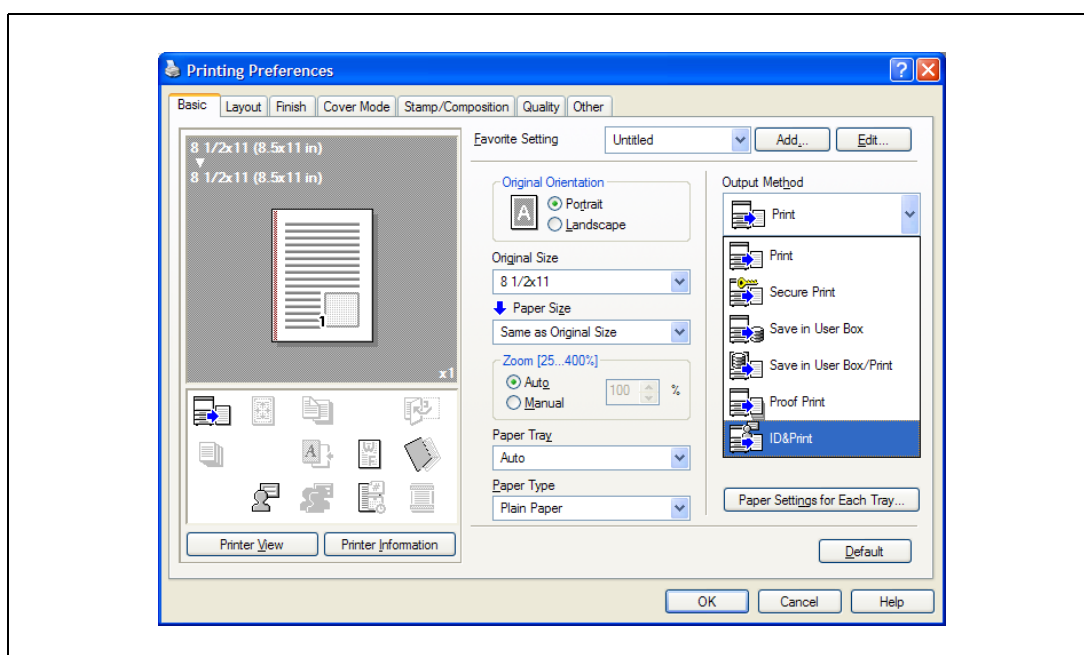
- 1 Click the Basic tab.
- 2 Click the [User Authentication/Account Track] button.



- 3 Select "Recipient User", enter the user name and password that are registered with the machine and click [OK].



- For details on user authentication, refer to "Printing on a machine with the user authentication set up" on page 11-22.
 - If "Public User" of [ID & Print Settings] accessed by selecting [User Authentication/Account Track] - [User Authentication Settings] - [Administrative Settings] is set to "Save" in the Administrator Settings of the machine and public user jobs are permitted, public user jobs are also saved in the ID & Print User Box. For details, refer to "ID & Print Settings" on page 12-48.
- 4 Select "ID & Print" from the "Output Method" drop-down list.

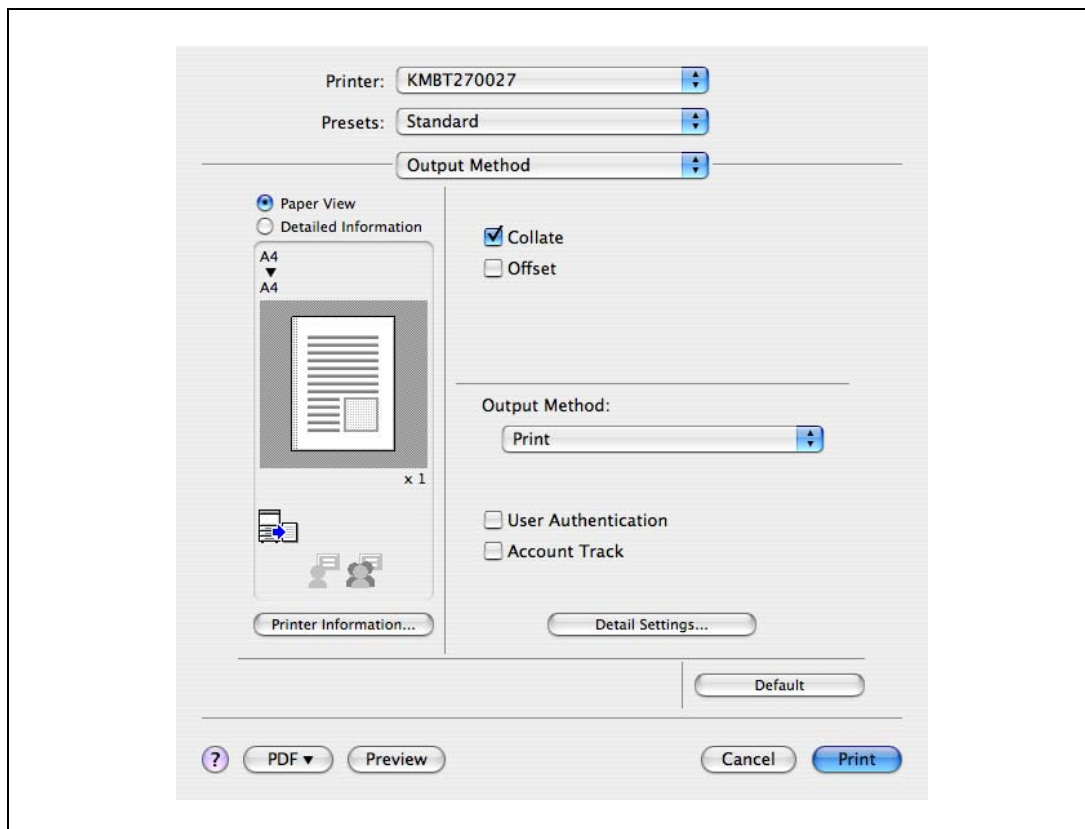


- If "ID & Print" of [ID & Print Settings] accessed by selecting [User Authentication/Account Track] - [User Authentication Settings] - [Administrative Settings] is set to "ON" in the Administrator Settings of the machine, general print jobs are also saved in the ID & Print User Box. For details, refer to "ID & Print Settings" on page 12-48.
- 5 Print the document.

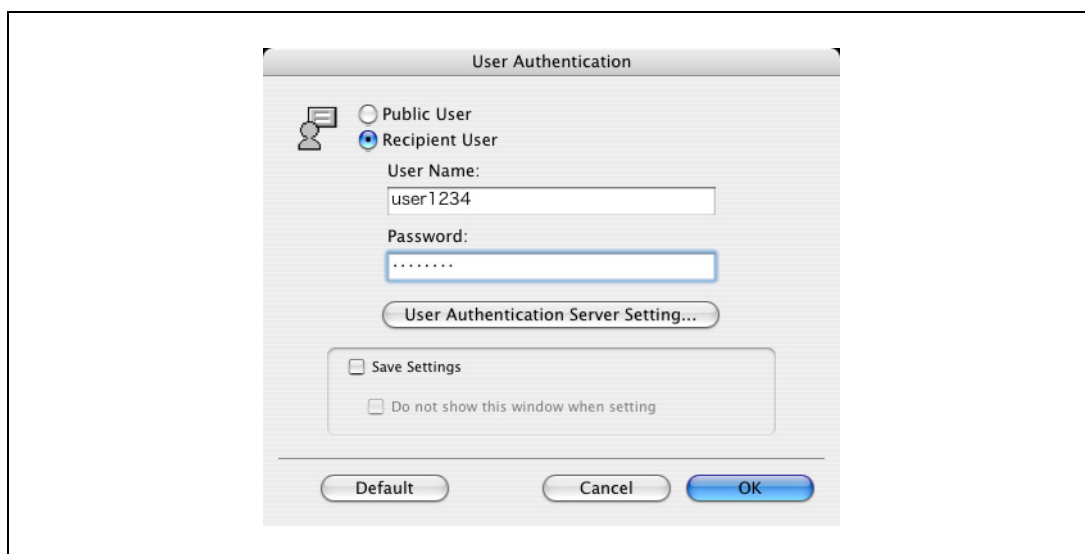
For Mac OS X**Detail**

To use ID & Print, it must be specified in Printer Info. Make sure that ID & Print is specified in Printer Info. For details, refer to "Options" on page 9-4.

- 1 Display the Output Method dialog box.
- 2 Select the "User Authentication" check box.

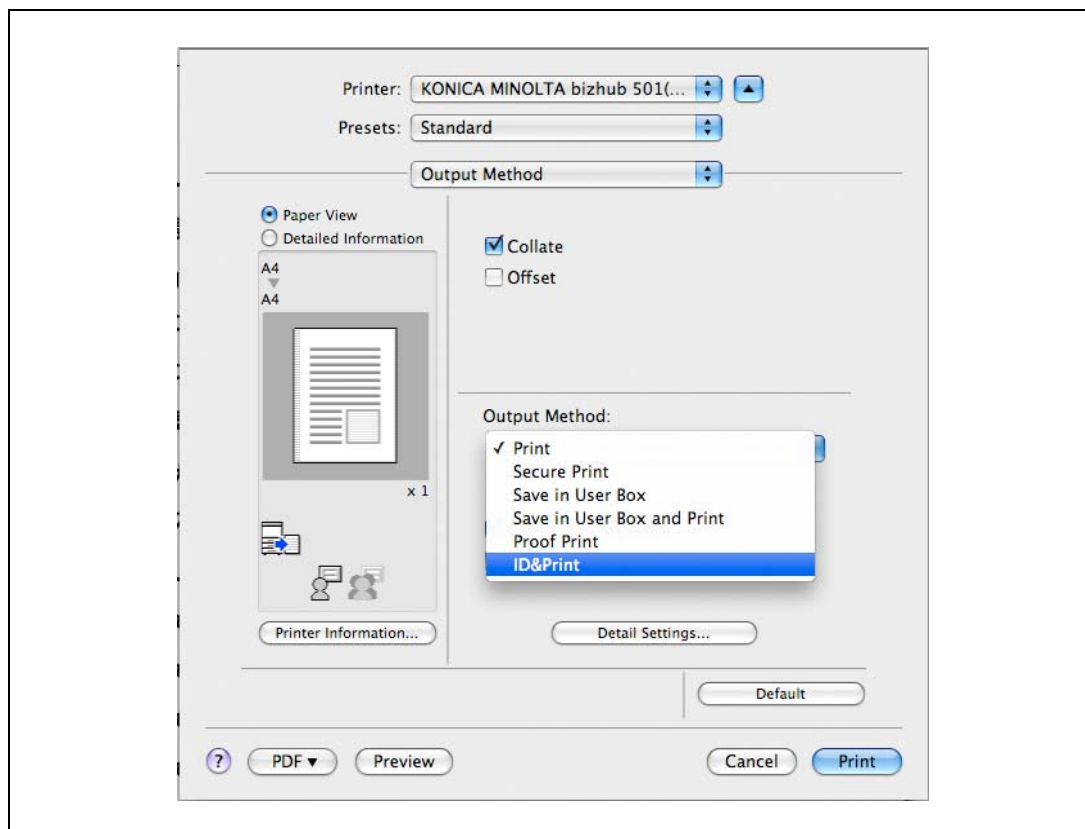


- 3 Select "Recipient User", enter the user name and password and then click [OK].



- For details on user authentication, refer to "Printing on a machine with the user authentication set up" on page 11-22.
- If "Public User" of [ID & Print Settings] accessed by selecting [User Authentication/Account Track] - [User Authentication Settings] - [Administrative Settings] is set to "Save" in the Administrator Settings of the machine and public user jobs are permitted, public user jobs are also saved in the ID & Print User Box. For details, refer to "ID & Print Settings" on page 12-48.

4 Select "ID & Print" from the "Output Method" drop-down list.



- If "ID & Print" of [ID & Print Settings] accessed by selecting [User Authentication/Account Track] - [User Authentication Settings] - [Administrative Settings] is set to "ON" in the Administrator Settings of the machine, general print jobs are also saved in the ID & Print User Box. For details, refer to "ID & Print Settings" on page 12-48.

5 Print the documents.

11.6.2 Recalling a job from the control panel

For a registered user, enter the user name and password from the control panel to recall a job according to the following procedure.

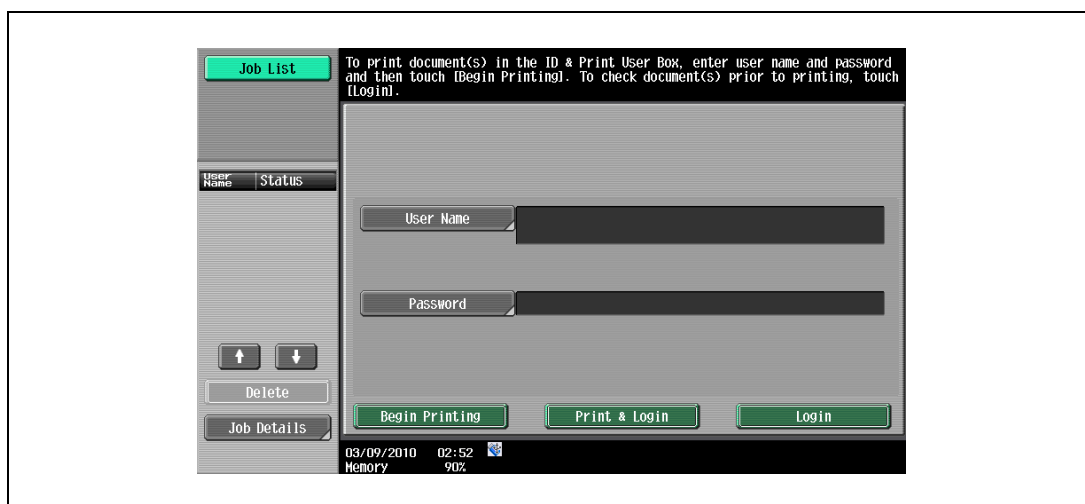


Note

For a public user, log on as a public user, open the ID & Print User Box, and then print the documents.

Printing a job after inputting user information

- 1 Enter the user name and the password from the control panel of this machine.



- 2 Touch [Begin Printing].
Once the user is authenticated, the print job is printed.



Detail

Touch [Print & Login] to print the job and log in as usual.

Touch [Login] to log in as usual, without printing the job. Log in first, and then open the ID & Print User Box to print the document.

If there are multiple print jobs, all the jobs are printed. To select the documents to print, touch [Login], and then print the documents from the ID & Print User Box.

When the optional authentication unit is installed, the ID & PW and Auth. Unit keys appear. By selecting the desired key, ID & PW or Auth. Unit can be selected as the authentication method.

Printing a job selected from "ID & Print User Box"

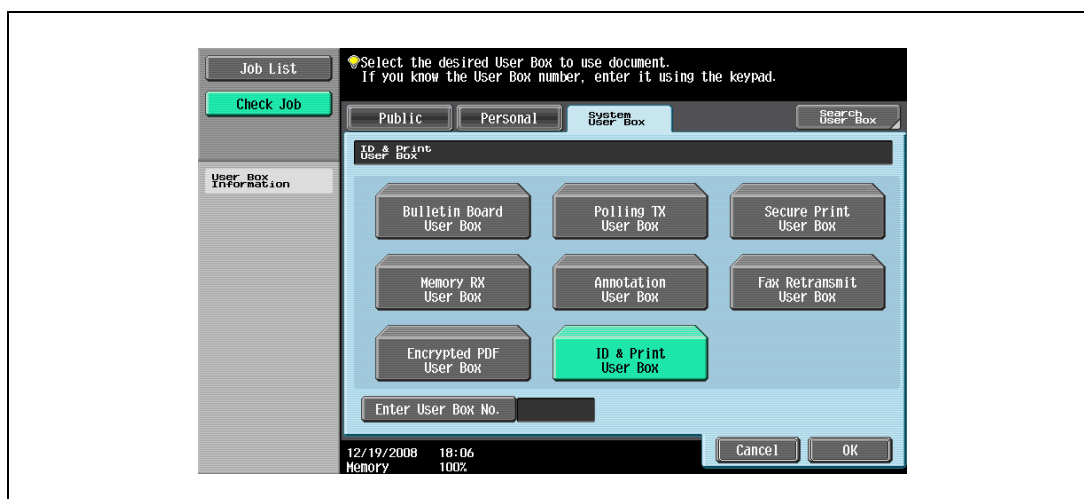
- 1 Enter the user name and the password from the control panel of this machine.



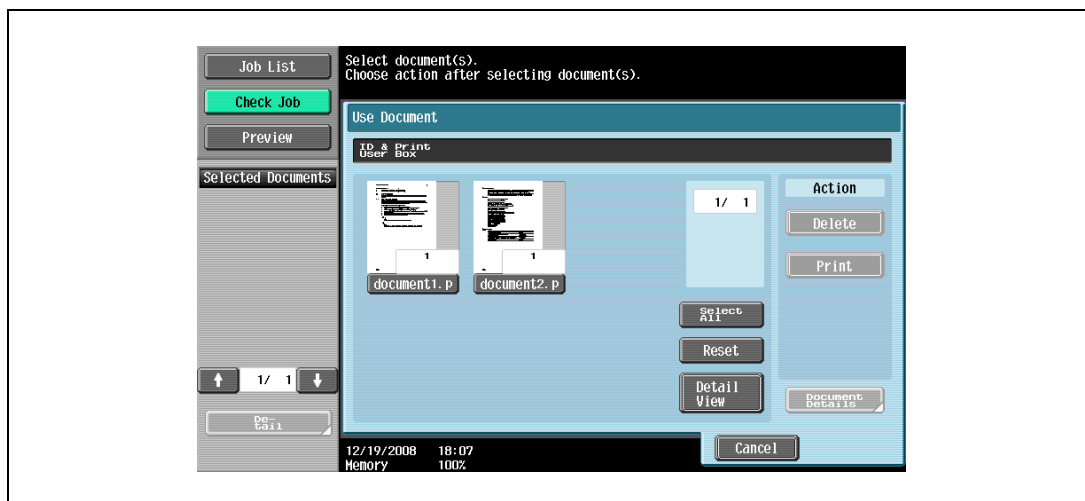
- 2 Touch [Login].
Log in to the machine.
- 3 Press the [User Box] key on the control panel, and then touch [Use Document].
– If application menu is displayed, touch [Box].



- 4 Touch [System User Box] - [ID & Print User Box], and then touch [OK].

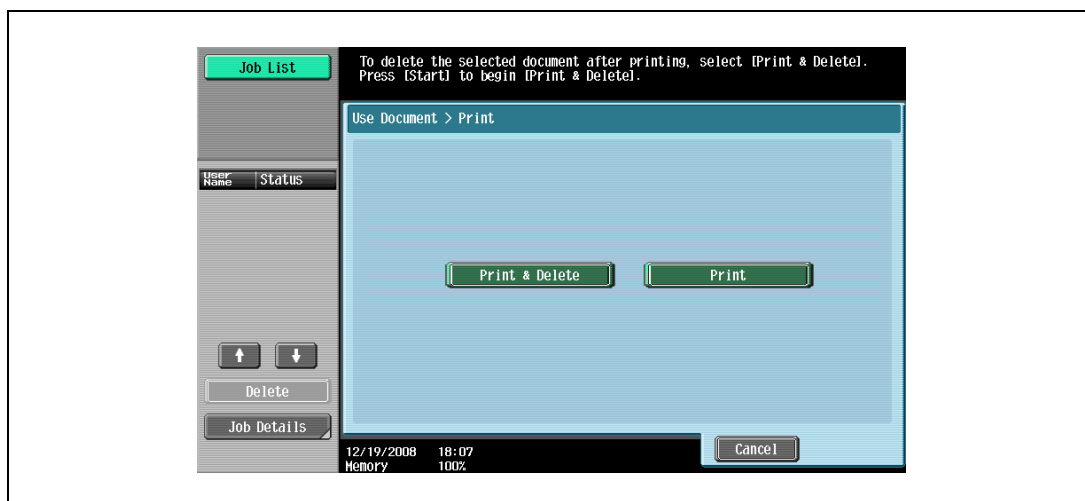


- 5 Select the document to be printed, and then touch [Print].



- The contents and a preview of the document can be checked in [Document Details].
- To cancel the operation, touch [Cancel].

- 6 When a screen confirming the deletion of the job appears, select the processing method.
- Selecting [Print & Delete] prints and deletes the document in the "ID & Print User Box".

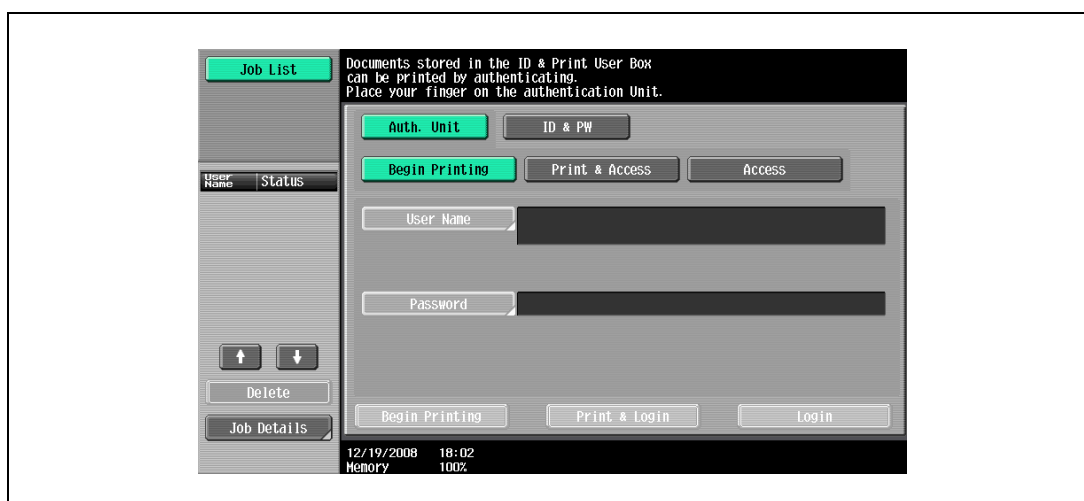


- When [System Settings] - [User Box Settings] - [ID & Print Delete after Print Setting] is set to "Confirm with User" in Administrator Settings of the machine, printing a document by specifying from "ID & Print User Box" displays the screen to confirm the deletion of the job. For details refer to the User manual – Box Operations.

The document is printed.

Logging in via Authentication Unit

- 1 Touch [Auth. Unit] and the touch [Begin Printing].



- 2 Touch the Authentication Unit with the finger or an IC card.
Once the user is authenticated, the print job is printed.



Note

Touch [Print & Access] to print the jobs and log in as usual.

Touch [Access] to log in as usual, without printing the job. Log in first, and then open the ID & Print User Box to print the document.

If there are multiple print jobs, all the jobs are printed by a single authentication operation if [ID & Print Operation Settings] is set to [Print All Jobs], or the jobs are printed 1 by 1 in the order they have been stored if [ID & Print Operation Settings] is set to [Print Each Job].

[ID & Print Operation Settings] can be specified by selecting [User Authentication/Account Track] - [User Authentication Settings] - [Administrative Settings] - [ID & Print Operation Settings] in the Administrator Settings of the machine. For details, refer to "ID & Print Operation Settings" on page 12-50.

If there are multiple print jobs and you wish to select the documents to print, touch [Access], and then print the documents from the ID & Print User Box.

Even when the authentication unit is installed, jobs can be printed by entering the user information in the ID & PW. For details, refer to "Printing a job after inputting user information" on page 11-33.

11.7 Specifying a user-defined encryption passphrase

The machine and the printer driver communicate with each other by encrypting a user password, account password or secure document password using a common encryption key.

Although an encryption passphrase for generating the encryption common key is preset as a default setting, it can also be generated with a user-defined encryption passphrase.

When specifying a user-defined encryption passphrase, specify the same encryption passphrase for the machine and the printer driver.



Note

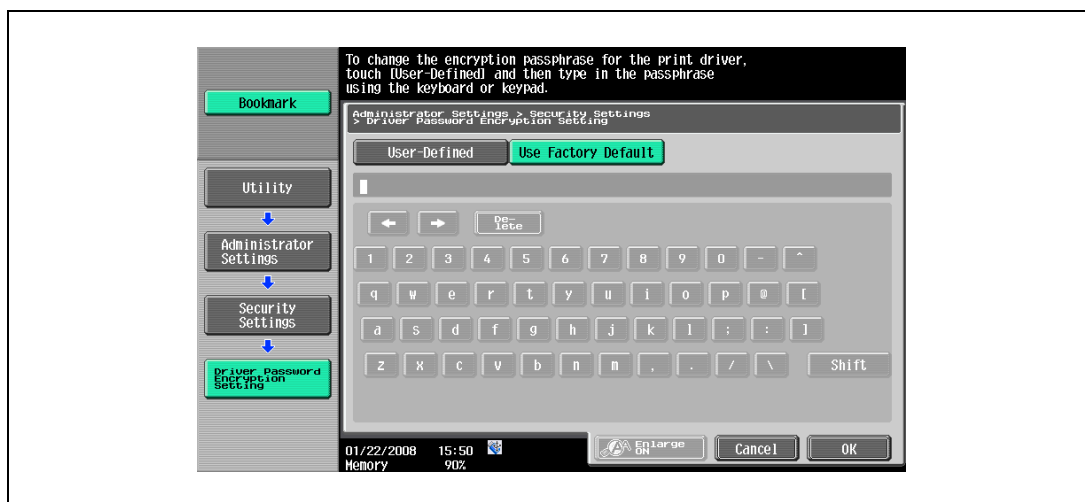
If different values are used for the encryption passphrase for the machine and the printer driver, the machine cannot decrypt the encrypted user password, account password or secure document password. Then printing cannot be performed.

The encryption passphrase automatically generates the common encryption key. The common encryption key cannot be specified directly.

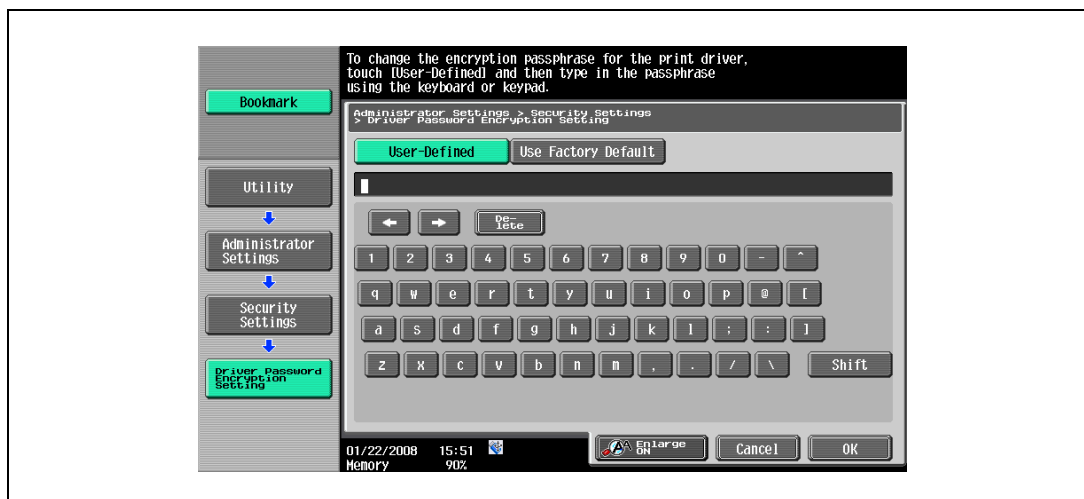
11.7.1 Settings of this machine

Go to the Administrator Settings screen to specify settings for the machine.

- 1 Touch [Security Settings] in the Administrator Settings screen.
- 2 In the Security Settings screen, touch [Driver Password Encryption Setting].
- 3 Touch [User-Defined].
 - To do without specifying a user definition for "Encryption Passphrase", touch "Use Factory Default".

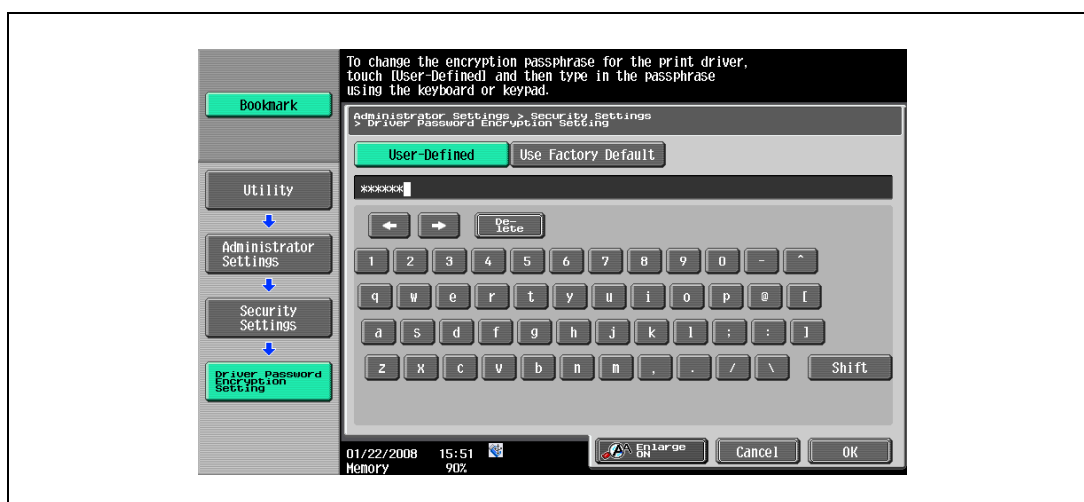


- 4 Enter the encryption passphrase, and then touch [OK].



- 5 Enter the encryption passphrase again, and then touch [OK].

This sets the encryption passphrase.



Note

When entering the encryption passphrase, use 20 alphanumeric characters. Specify the same encryption passphrase for the machine and the printer driver.

An encryption key using a series of the same character is invalid.

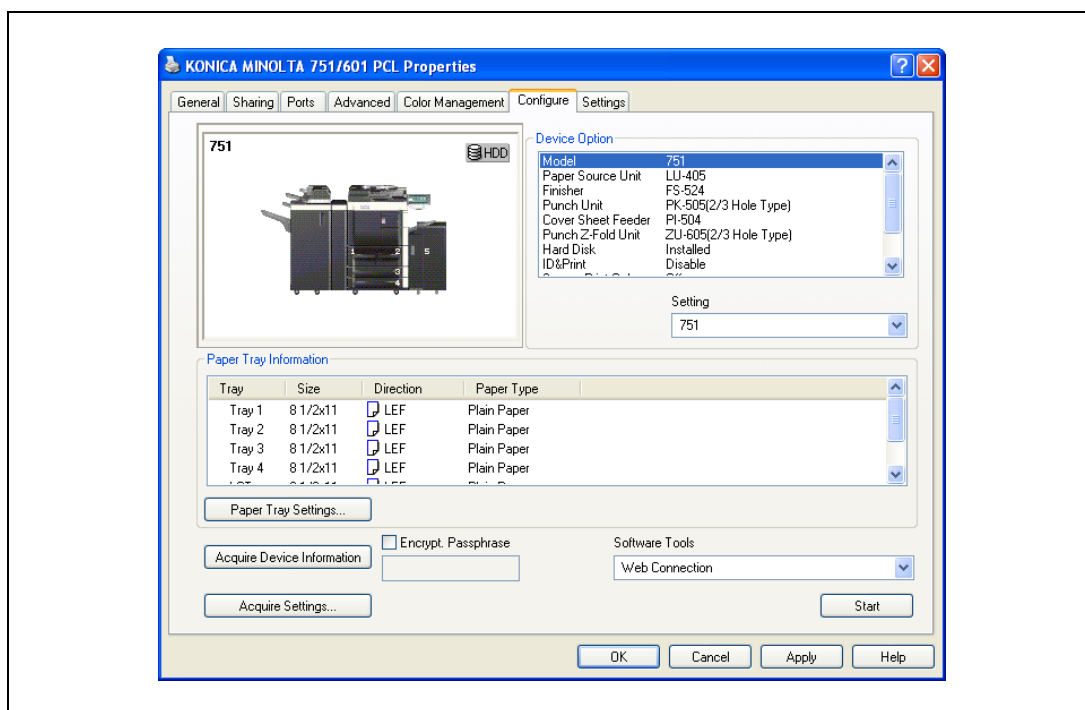
11.7.2 Setting up the printer driver

The following four printer drivers support setup of this feature:

- PCL driver
- PS driver
- XPS driver
- PS-PPD driver for Mac OS X

For Windows

- 1 Display the Properties screen.
 - To display the Properties window, open the Printers window, Devices and Printers window, or the Printers and Faxes window. In that window, right-click the icon of the installed printer, and then click "Properties".
- 2 Click the Device Information tab.
- 3 Select the "Encrypt. Passphrase" check box and enter the Encrypt. Passphrase.
 - To do without specifying a user definition for "Encrypt. Passphrase", clear "Encrypt. Passphrase".



- 4 Click the [OK] button.



Note

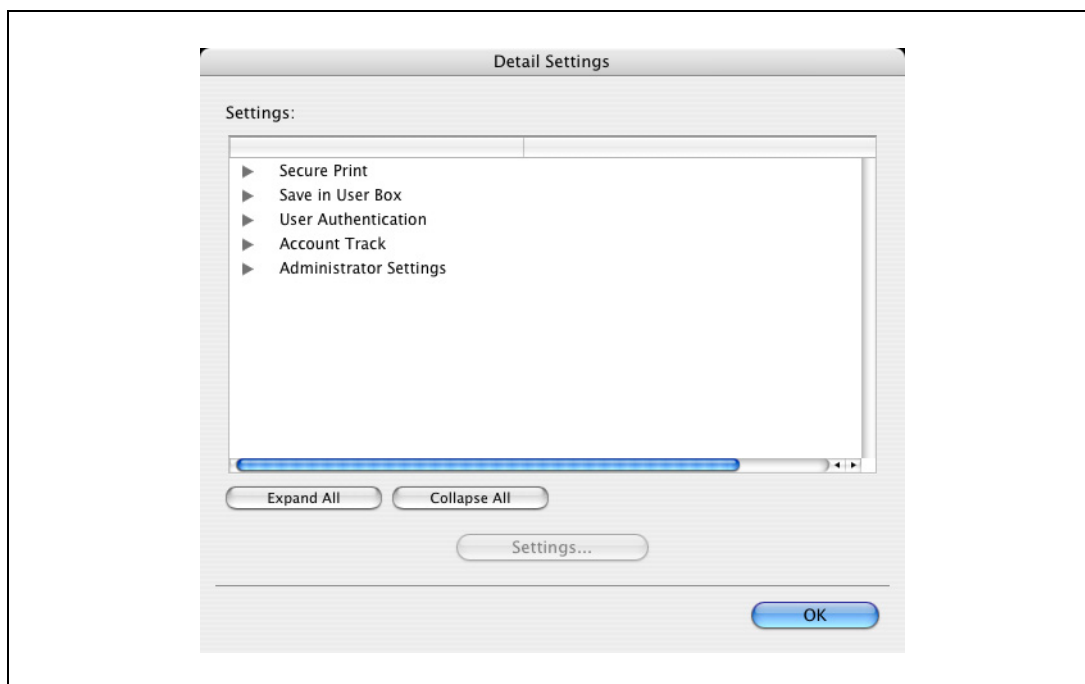
When entering the encryption passphrase, use 20 alphanumeric characters. Specify the same encryption passphrase for the machine and the printer driver.

An Encrypt. Passphrase using a series of the same character is invalid.

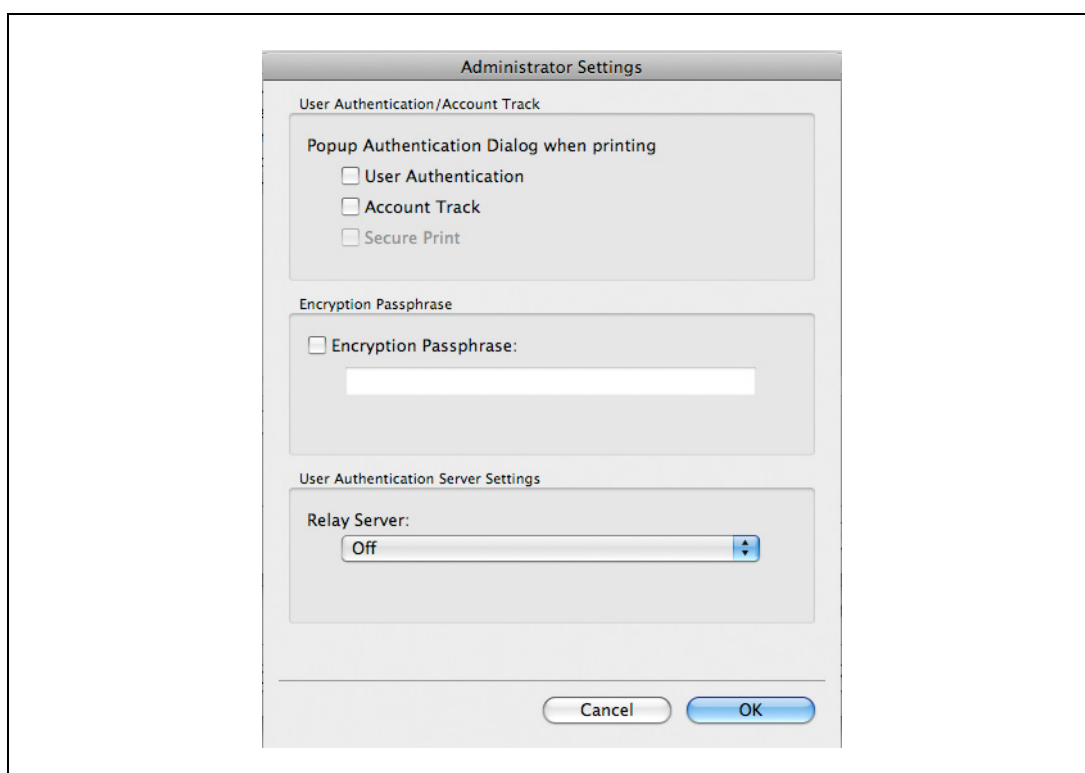
When SSL is enabled in OpenAPI and the printer driver can obtain the device information automatically, it is also possible to obtain the common Encrypt. Passphrase from this machine automatically.

For Mac OS X

- 1 Display the Output Method dialog box.
- 2 Click the [Detail Settings] button.
The Detail Settings dialog box appears.
- 3 Select "Administrator Settings", and then click the [Settings] button.
The Administrator Settings dialog box appears.



- 4 Select the "Encryption Passphrase" check box and enter the encryption passphrase.
 - To do without specifying a user definition for "Encryption Passphrase", clear "Encryption Passphrase".



- 5 Click the [OK] button.

**Note**

When entering the encryption passphrase, use 20 alphanumeric characters. Specify the same encryption passphrase for the machine and the printer driver.

An encryption key using a series of the same character is invalid.

11.8 Saving the driver settings

You can save the setting values of the changed driver and recall them as necessary.

11.8.1 Setting up the printer driver

The following four printer drivers support setup of this feature:

- PCL driver
- PS driver
- XPS driver
- Fax driver



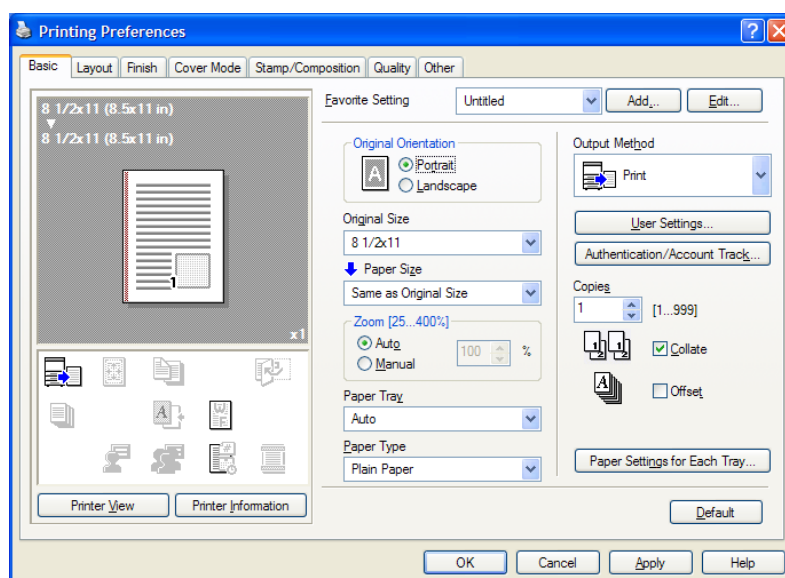
...

Note

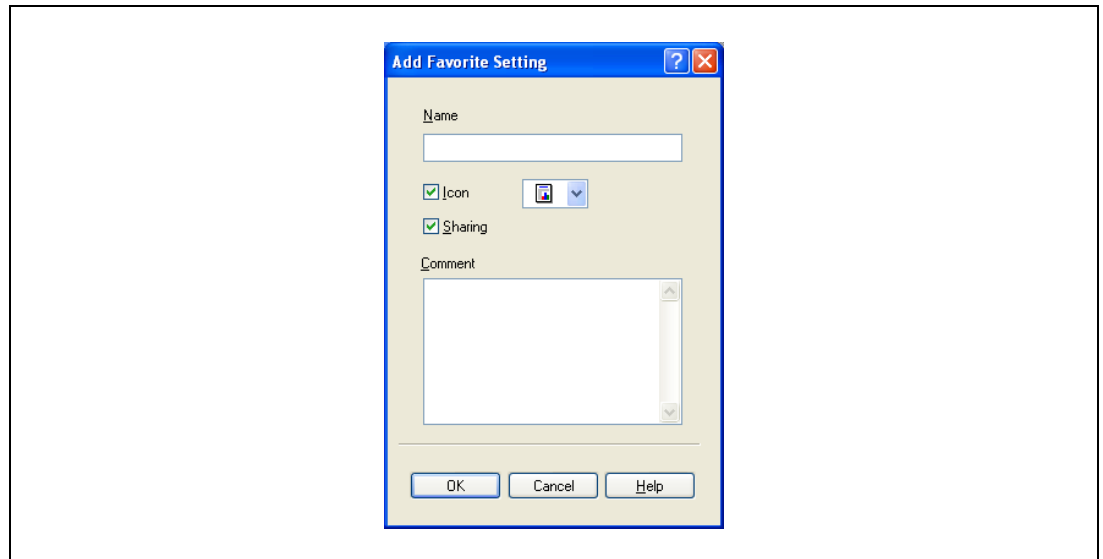
For details on fax drivers, refer to the User manual – Fax Driver Operations.

For Windows

- 1 Change the driver settings from the Basic tab and the Layout tab.
- 2 Click the [Add] button next to the "Favorite Setting" drop-down list.



3 Specify settings for the following:



- Name: Enters the specified registration name.
- Icon: Specifies the icon. The settings can be registered even if the icon is not specified.
- Sharing: Specifies whether to register the specified file as public or private.
- Comment: Enters the detailed description of the specified file, if necessary.

4 Click the [OK] button.

The specified settings are registered in the "Favorite Setting" drop-down list.



Note

Up to 30 shared settings and up to 20 private settings can be registered.

Up to 30 characters can be entered in the "Name" text box. Up to 255 characters can be entered in the "Comment" text box.

Only the administrator can select a setting under "Sharing".



Detail

The settings that were specified can also be saved (exported) to a file. For details, refer to "Importing and exporting the driver settings" on page 11-45.

11.8.2 Recalling the settings

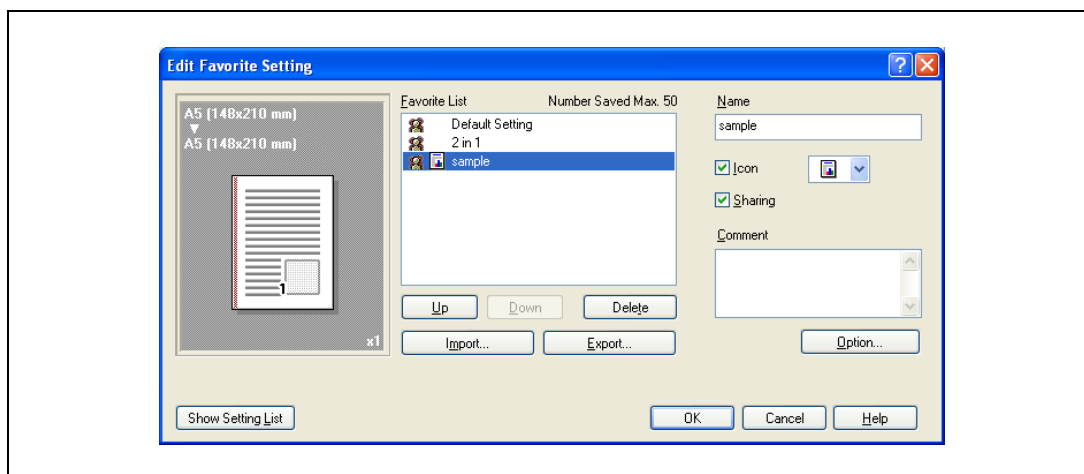
Select the settings to recall from the "Favorite Setting" drop-down list on the "Printing Preferences" dialog box.

The setting values are recalled, and the settings for the printer driver are changed.

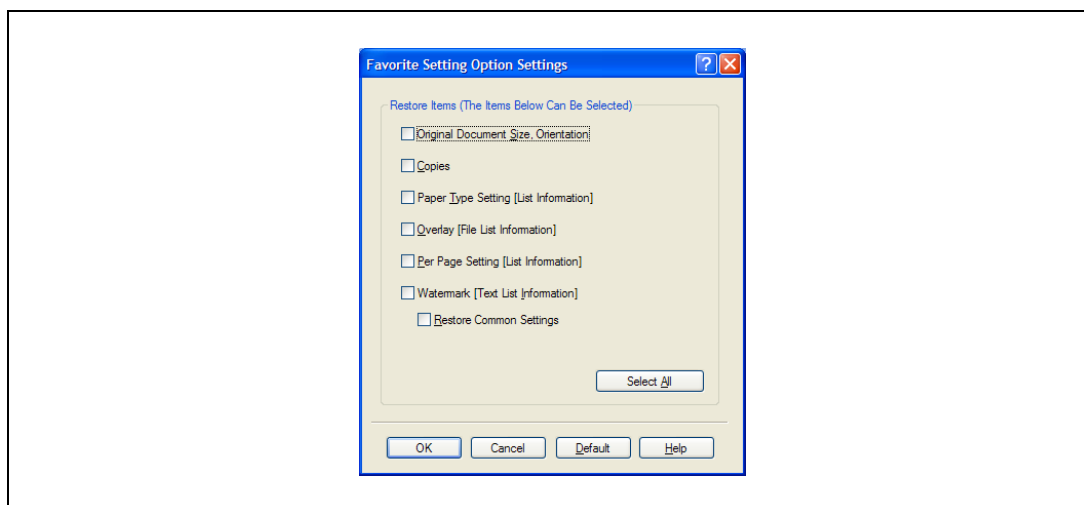
11.8.3 Editing the settings

You can edit the recalled function items such as the specified names and comments.

- 1 In the "Printing Preferences" dialog box, click the [Edit] button next to the "Favorite Setting" dropdown list.
- 2 From the list, select the specified name that you want to change, and then change the setting.
To delete a setting, click the [Delete] button.
To switch the order displayed, click the [Up] button or the [Down] button.



- 3 Click the [Option] button, select the check box of the function that you want to recall, and then click the [OK] button.



- 4 Click the [OK] button.



Note

The specified settings of the driver functions cannot be changed.

11.8.4 Importing and exporting the driver settings

You can also save (export) or read (import) the settings that were specified to a file. This comes in handy when you want to use the same settings on another computer.

- 1 In the "Printing Preferences" dialog box, click the [Edit] button next to the "Favorite Setting" dropdown list.
- 2 From the list, select the specified name that you want to export, and then click the [Export] button. The dialog box to save the specified file appears.
- 3 Specify the location to save the file and enter the file name.
- 4 Click the [Save] button.
The specified file is created. The file extension is ".ksf."



...

Note

To read the specified file that was saved in the "Favorite Setting" drop-down list, click the [Import] button and specify the file.

12

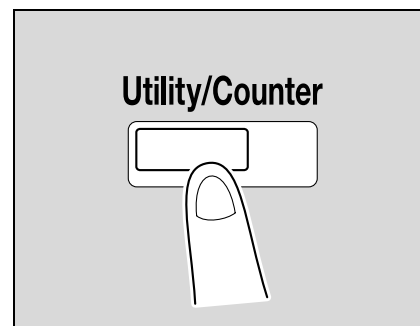
Settings on the control panel

12 Settings on the control panel

12.1 Basic operations for user settings

12.1.1 Displaying the User Settings screen

- 1 Press the [Utility/Counter] key.



- 2 Touch [2 User Settings].



The User Settings screen appears.



**Note**

An item can also be selected by pressing the key in the keypad for the number beside the desired button.

For [2 User Settings], press the [2] key in the keypad.

To quit specifying the Utility mode settings, press the [Utility/Counter] key. Otherwise, exit the Utility mode by touching [Close] in each screen until the screen for the Copy, Fax/Scan, or Box mode appears.

To return to the Utility screen, touch [Close] until the desired screen appears. You can also touch the menus in the left panel to return to the Utility screen.

12.2 User settings

12.2.1 PDL setting

You can specify settings for Page Description Language. (Default setting: Auto)

- Auto: Automatically switches between PCL and PS.
- PCL: Only uses PCL.
- PS: Only uses PS.



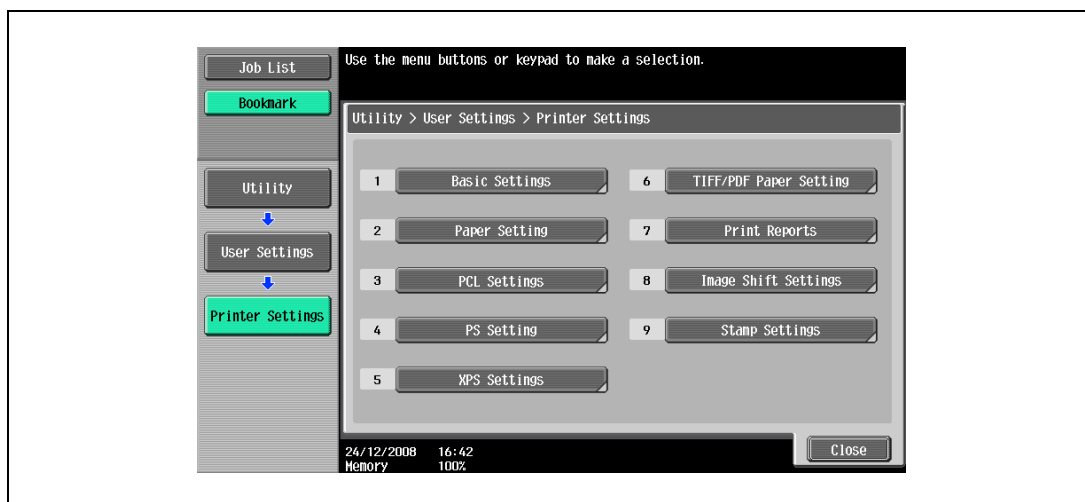
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].



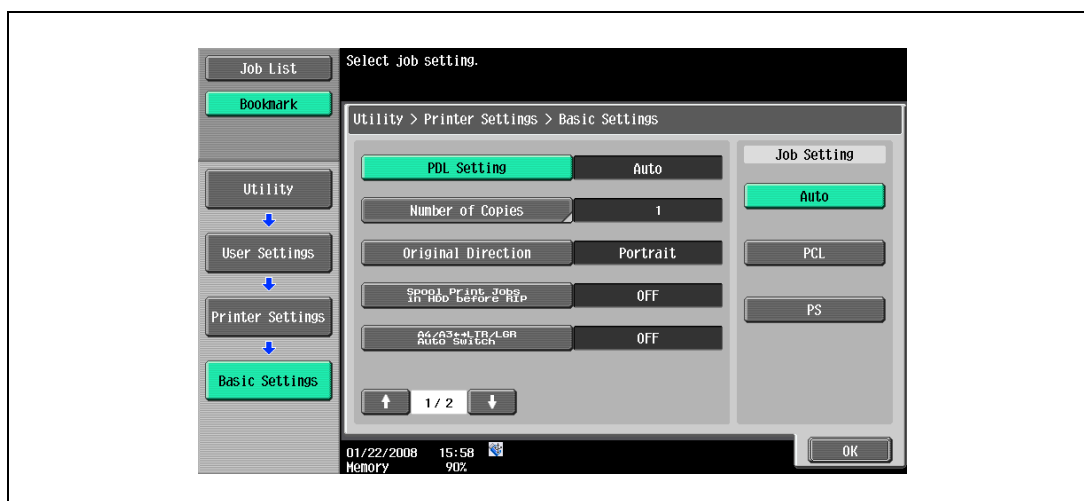
- 2 Touch [1 Basic Settings].



3 Touch [PDL Setting].



4 Touch the button for the desired setting.



12.2.2 Number of Copies

You can specify the default number of copies. (Default setting: 1)



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [1 Basic Settings].
- 3 Touch [Number of Copies].



- 4 Press the [C] (clear) key to erase the value, and then use the keypad to type in the number of copies (1 - 9999).



- If a value outside of the allowable range is specified, the message "Input Error" appears. Type in a value within the allowable range.

- 5 Touch [OK].
The default number of copies is set.

12.2.3 Original Direction

You can specify the default image orientation. (Default setting: Portrait)

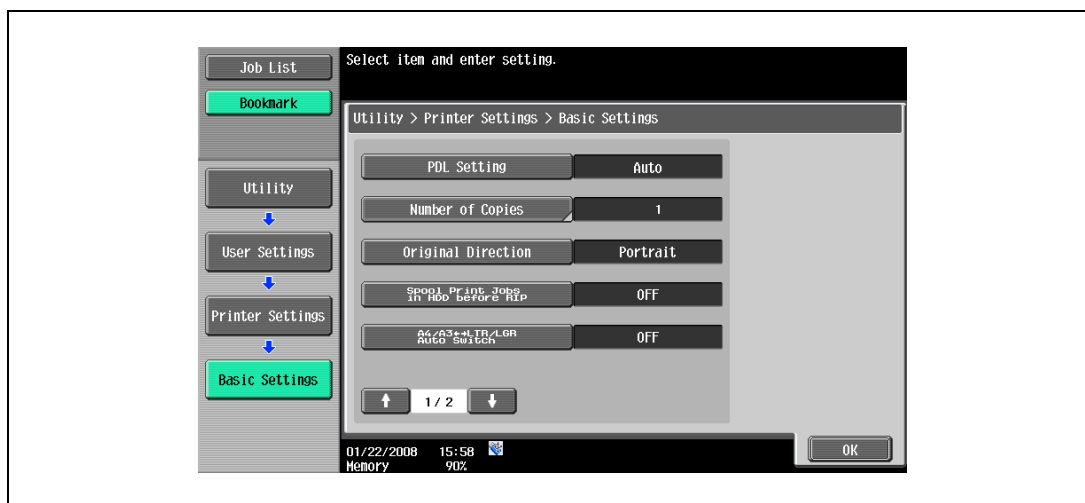
- Portrait: Prints the image vertically on the page.
- Landscape: Prints the image horizontally on the page.



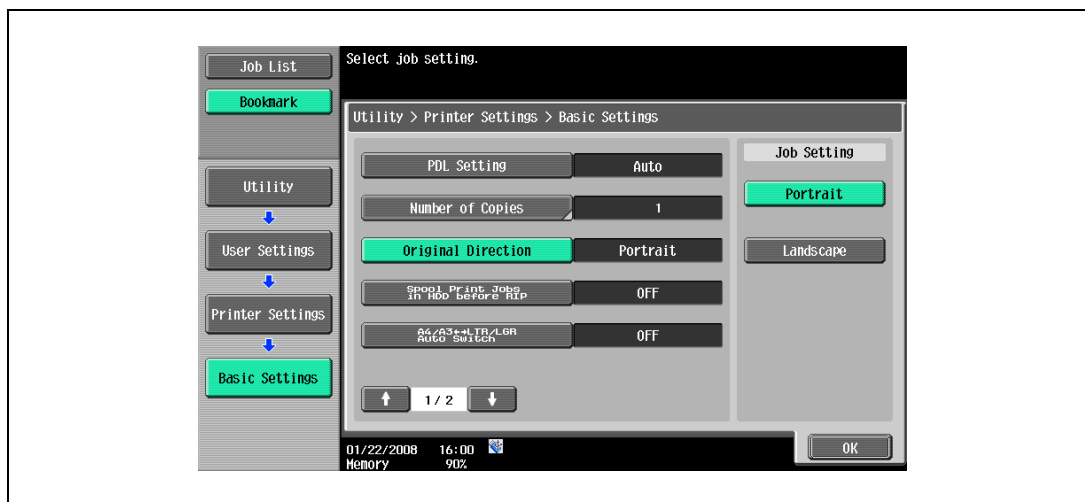
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [1 Basic Settings].
- 3 Touch [Original Direction].



- 4 Touch the button for the desired setting.



12.2.4 Spool Print Jobs in HDD before RIP

You can specify whether or not a spool is used. (Default setting: ON)

- ON: When the next job is received while processing a job, the print data is stored in the optional HDD.
- OFF: The print data is not stored in the optional HDD.



Reminder

When installing the optional HDD, do not change the setting to "OFF" for normal operation. Printing may fail.



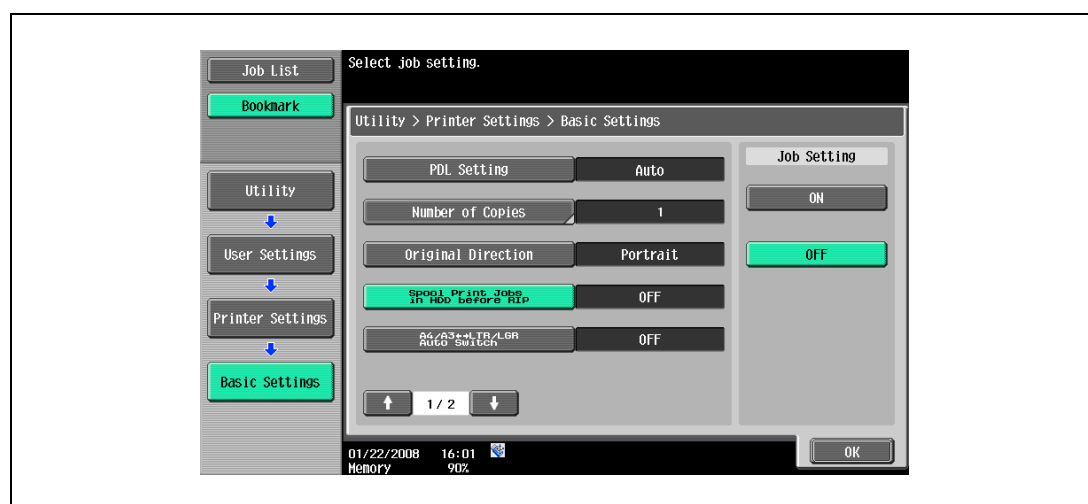
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [1 Basic Settings].
- 3 Touch [Spool Print Jobs in HDD before RIP].



- 4 Touch the button for the desired setting.



12.2.5 A4/A3 <=> LTR/LGR Auto Switch

When the paper of the size specified with the printer driver is not loaded on the tray, size conversion between A4 and LTR(Letter), or A3 and LGR(11 × 17) is executed to use paper of the closest size. (Default setting: OFF)



Note

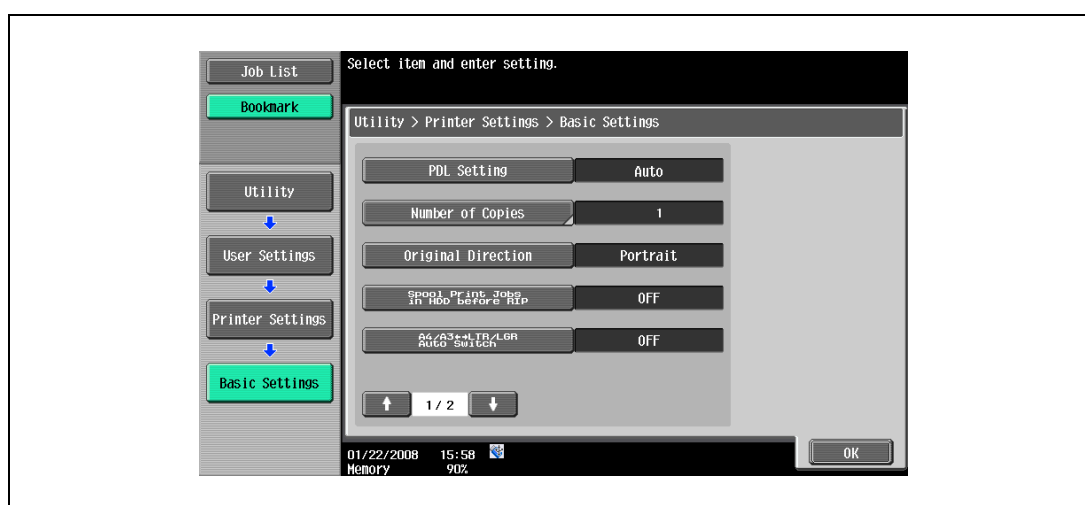
The image may be defected since printing is forced.



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [1 Basic Settings].
- 3 Touch [A4/A3<=>LTR/LGR Auto Switch].



- 4 Touch the button for the desired setting.



12.2.6 Banner Sheet Setting

You can specify whether to print banner pages (cover pages) with the sender of the print job and title. (Default setting: OFF)

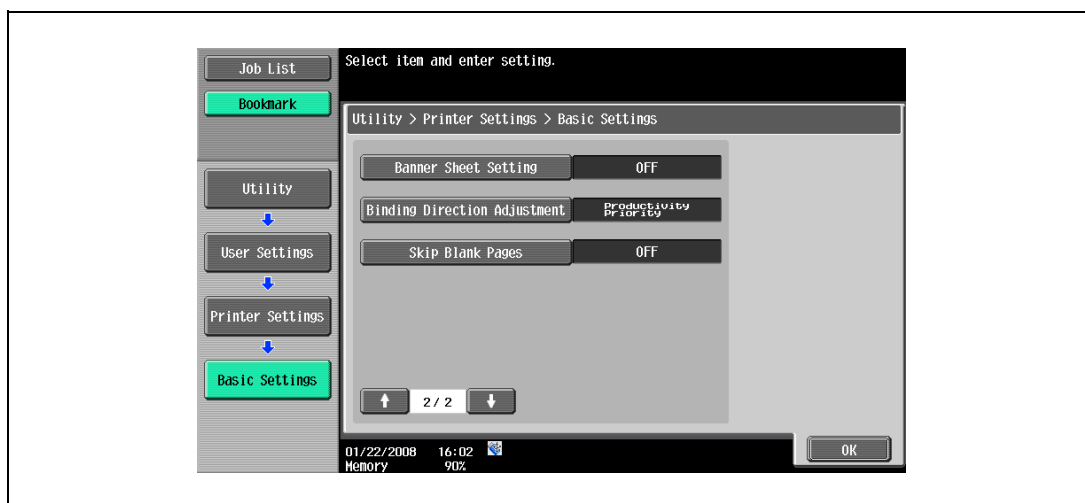
- ON: Prints banner pages.
- OFF: Does not print banner pages.



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [1 Basic Settings].
- 3 Touch or to switch the pages, and then touch [Banner Sheet Setting].



- 4 Touch the button for the desired setting.



12.2.7 Binding Direction Adjustment

You can specify whether to adjust the binding position for duplex printing. (Default setting: Finishing Priority)
To increase the print efficiency, select "Productivity Priority".

- Productivity Priority: Printing is performed efficiently because the machine processes data reception and printing concurrently.
- Control Adjustment: The machine follows the settings specified in the printer driver without adjusting the binding position.



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [1 Basic Settings].
- 3 Touch or to switch the pages, and then touch [Binding Direction Adjustment].



- 4 Touch the button for the desired setting.



12.2.8 Skip Blank Pages

When the data has a blank page, make a setting to decide whether or not printing is made on the blank page.
(Default setting: Finishing Priority)

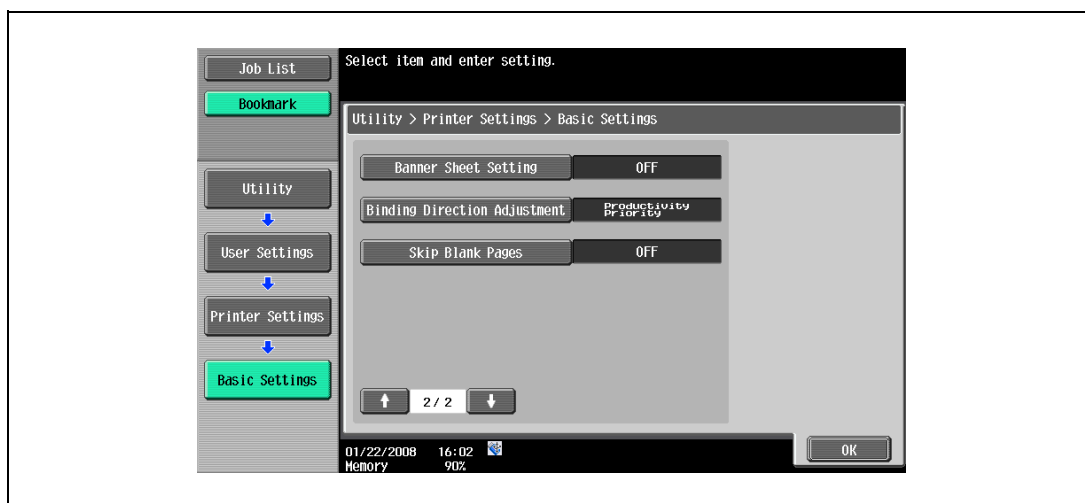
- ON: Make no printing on the blank page.
- OFF: Make printing on the blank page.



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [1 Basic Settings].
- 3 Touch or to switch the pages, and then touch [Skip Blank Pages].



- 4 Touch the button for the desired setting.



12.2.9 Paper Tray

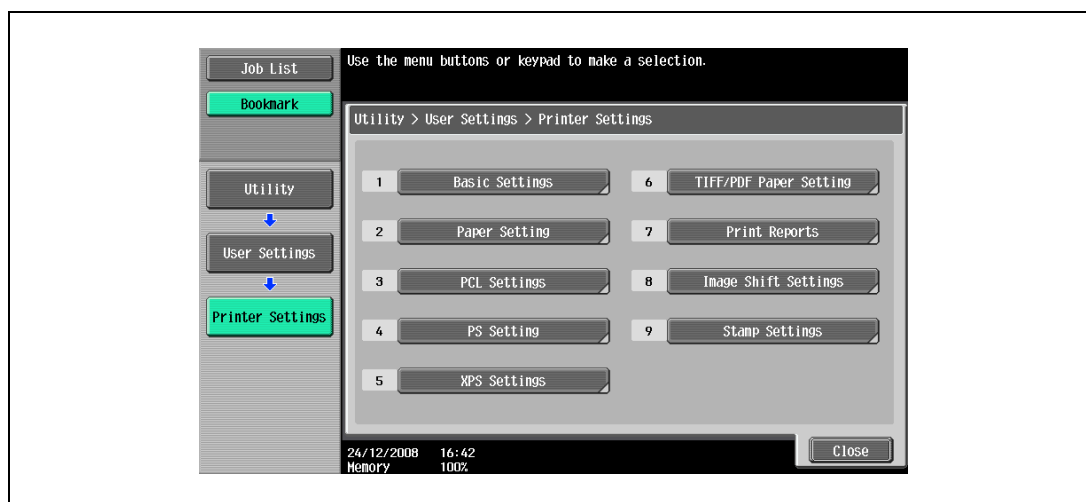
You can specify the default paper tray setting. (Default setting: Auto)



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

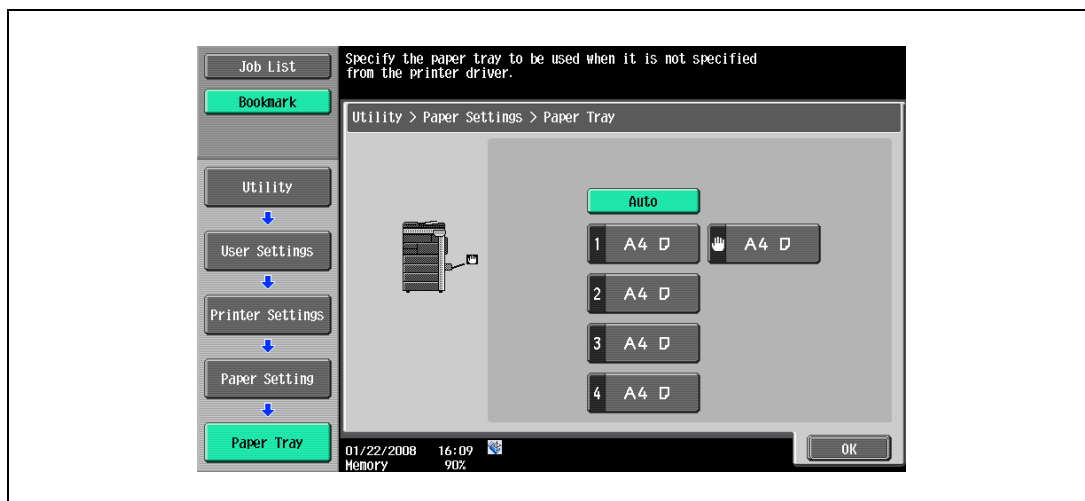
- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [2 Paper Setting].



- 3 Touch [2 Paper Tray].



- 4 Touch the button for the desired paper tray.



- To select the paper tray automatically, touch [Auto].

- 5 Touch [OK].

12.2.10 Paper Size

You can specify the default paper size setting. (Default setting: Varies from area to area)



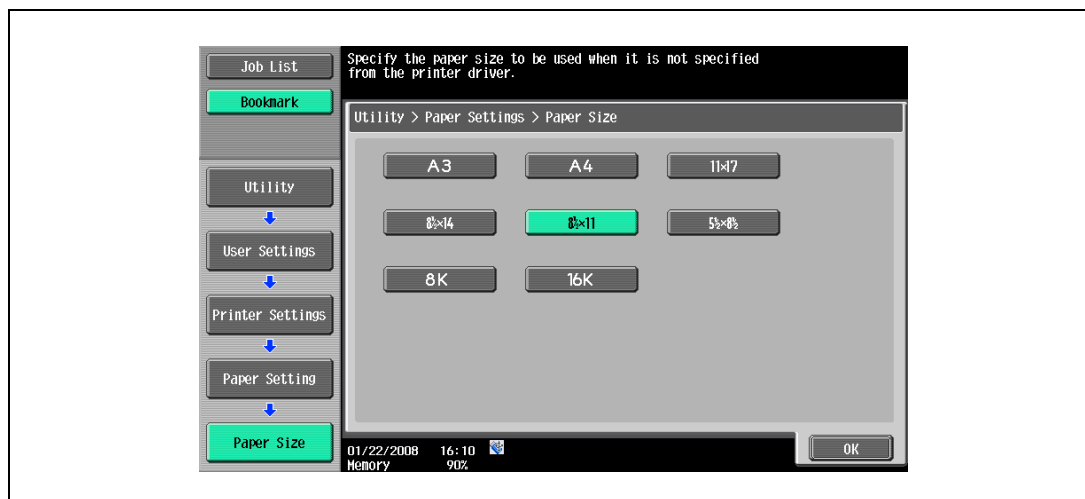
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [2 Paper Settings].
- 3 Touch [Paper Size].



- 4 Touch the button for the desired setting.



- To select other paper sizes, touch or to switch the pages.

- 5 Touch [OK].

12.2.11 2-Sided Print

You can specify the default duplex printing setting. (Default setting: OFF)



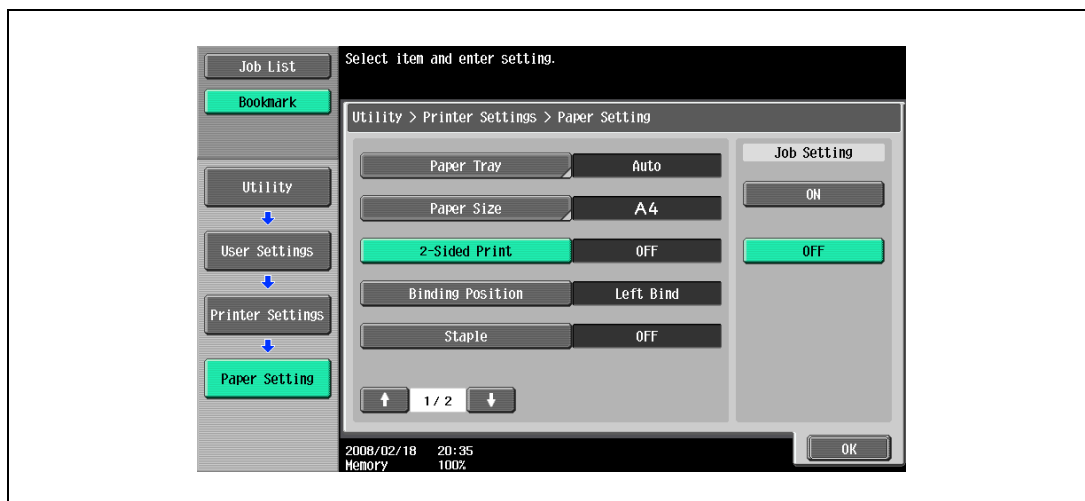
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [2 Paper Settings].
- 3 Touch [2-Sided Print].



- 4 Touch the button for the desired setting.



12.2.12 Binding Position

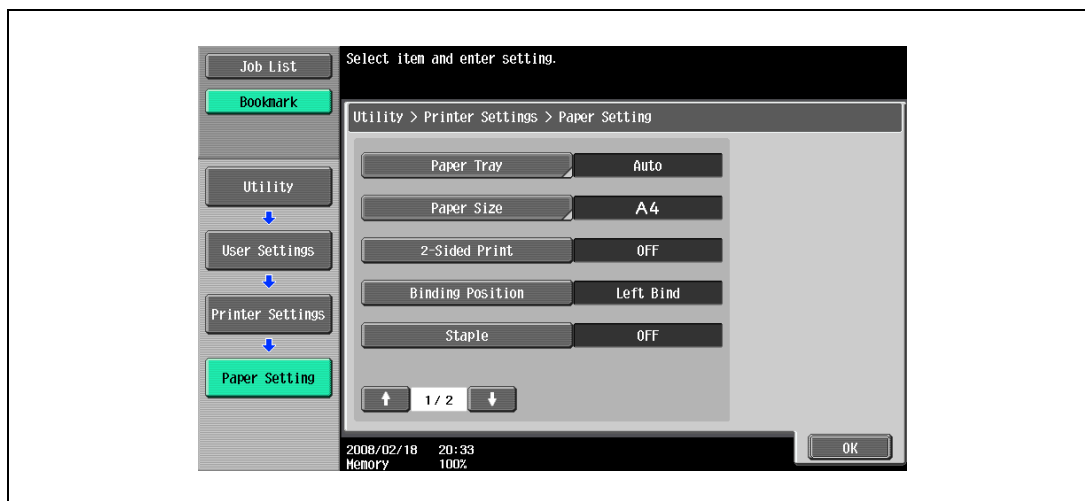
You can specify the default binding position for duplex printing. (Default setting: Left Bind)



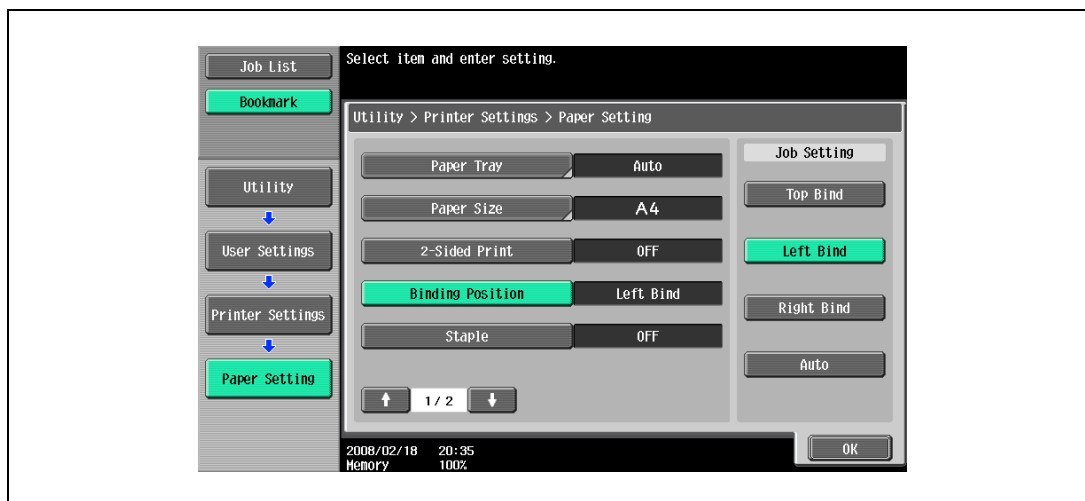
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [2 Paper Settings].
- 3 Touch [Binding Position].



- 4 Touch the button for the desired setting.



12.2.13 Staples

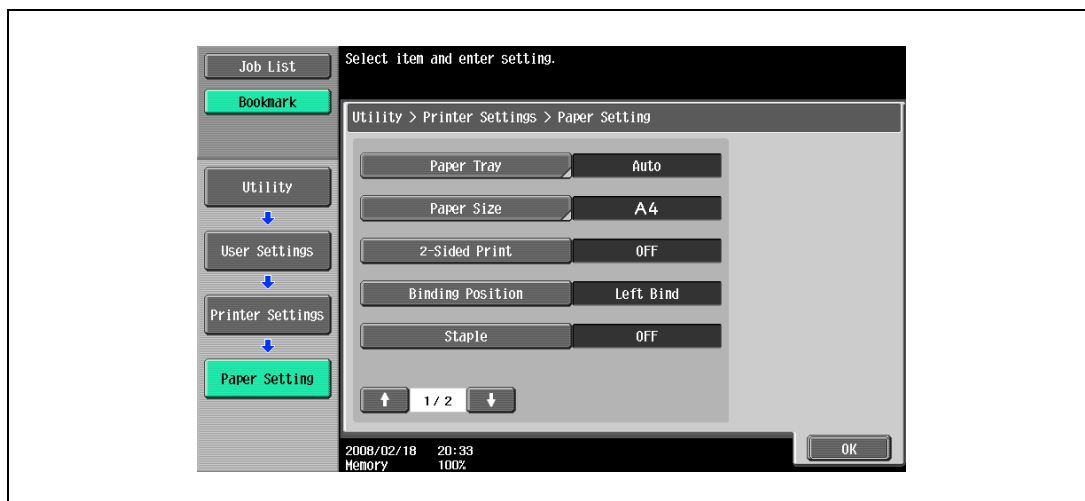
You can specify the staple setting when the data to be printed has no staple setting information. (Default setting: OFF)



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [2 Paper Settings].
- 3 Touch [Staple].



- 4 Touch the button for the desired setting.



Reminder

The Staple settings are available only if the optional finisher is installed.



12.2.14 Punch

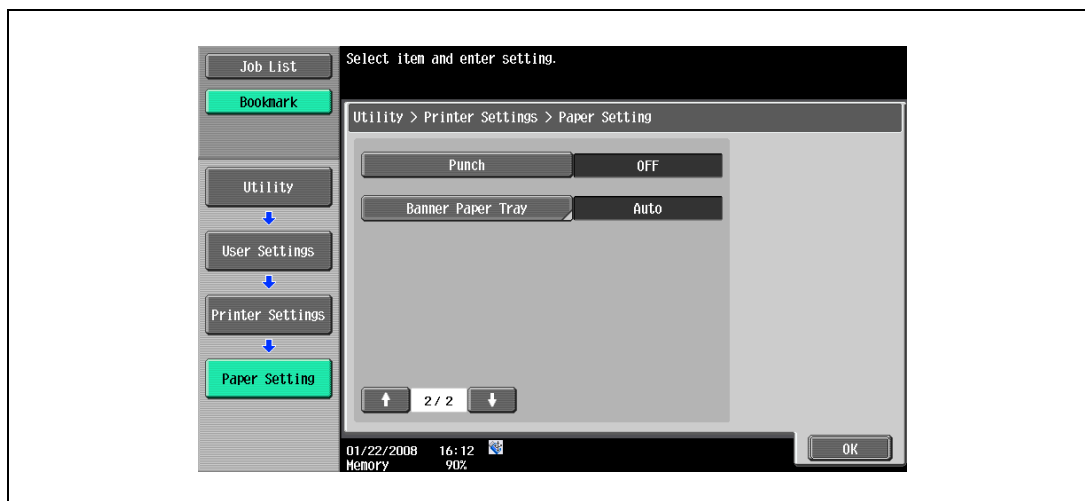
You can specify the punch setting when the data to be printed has no punch setting information. (Default setting: OFF)



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [2 Paper Settings].
- 3 Touch  or  to switch the pages, and then touch [Punch].



- 4 Touch the button for the desired setting.



Note

The Punch function is available only if the punch kit or Z folding unit is installed with the optional finisher.

12.2.15 Banner Paper Tray

Select the paper tray used to print banner paper. (Default setting: Auto)



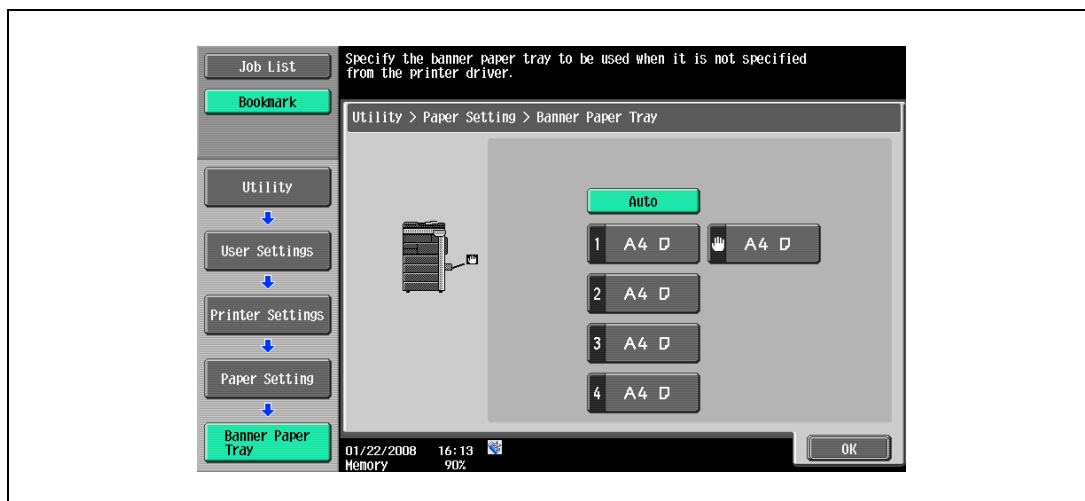
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [2 Paper Settings].
- 3 Touch or to switch the pages, and then touch [Banner Paper Tray].



- 4 Touch the button for the desired setting.



12.2.16 Font Settings (PCL)

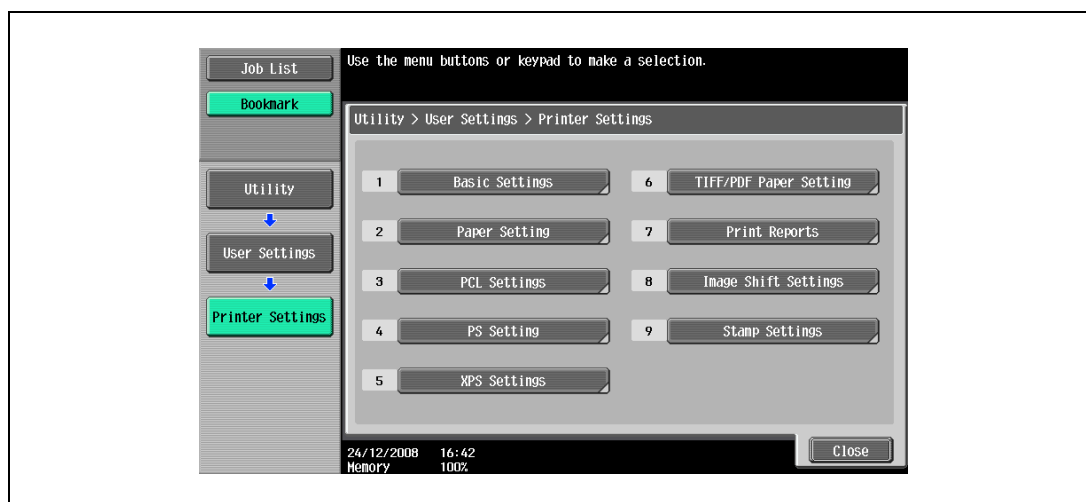
You can specify the default font setting. (Default setting: Courier)



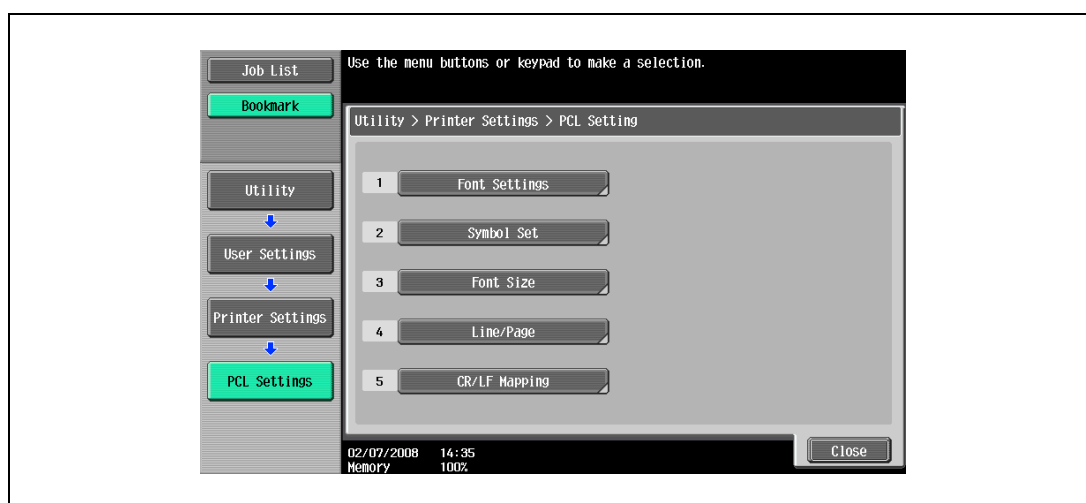
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

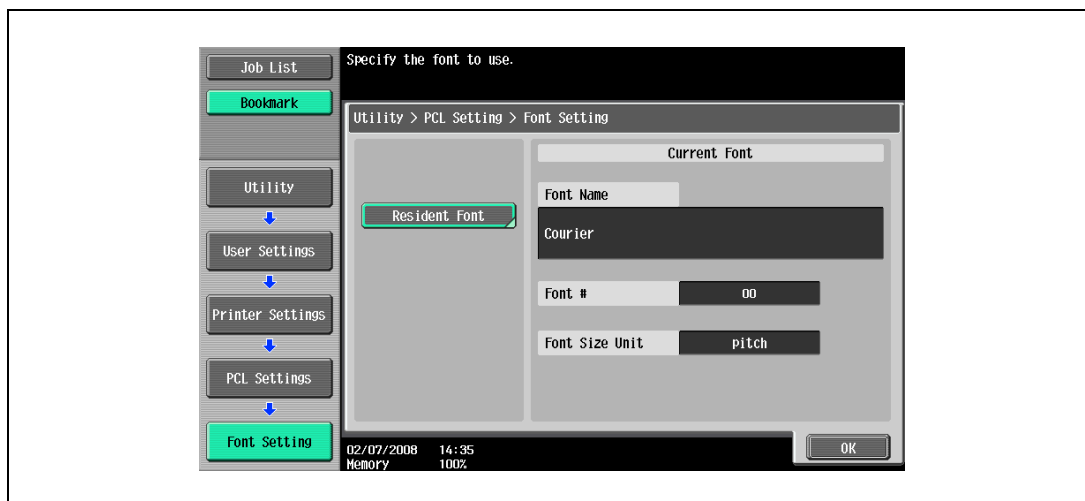
- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [3 PCL Settings].



- 3 Touch [1 Font Settings].

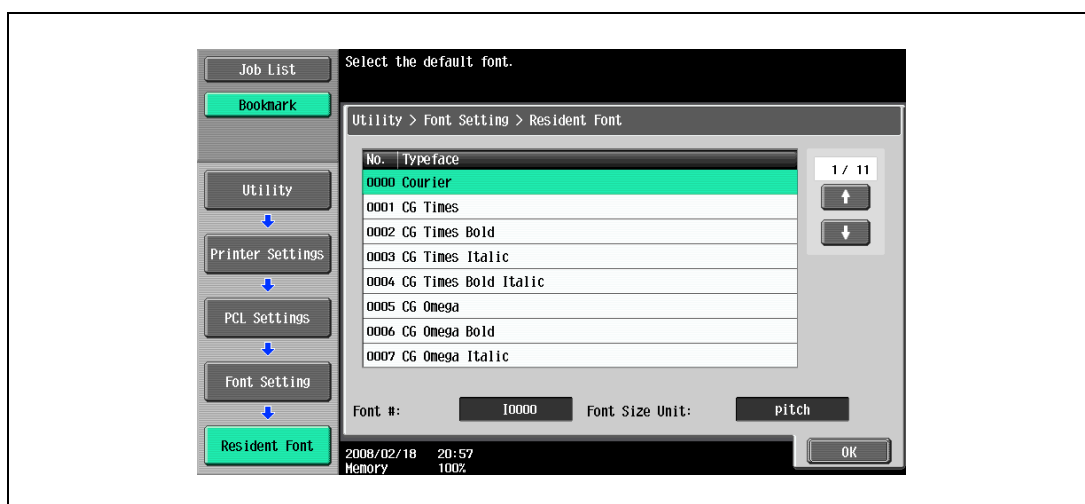


4 Touch [Resident Font].



- If downloaded fonts are available, [Download Font] can also be selected.

5 Touch the button for the desired setting.



- Touch or to switch the pages, and then touch the button for the desired setting.
- You can check the selected font number and font size units.

6 Touch [OK].

12.2.17 Symbol Set (PCL)

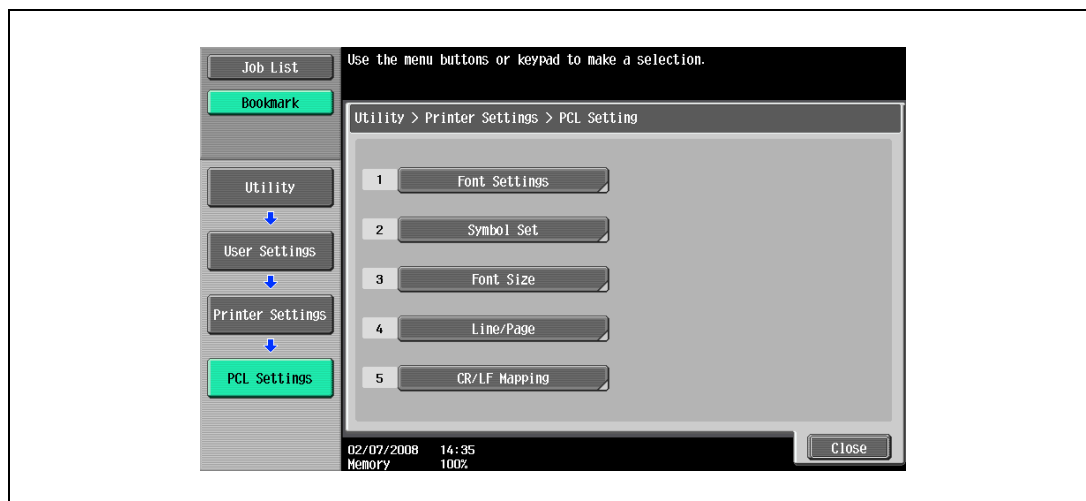
You can specify the default font symbol set setting. (Default setting: Varies from area to area)



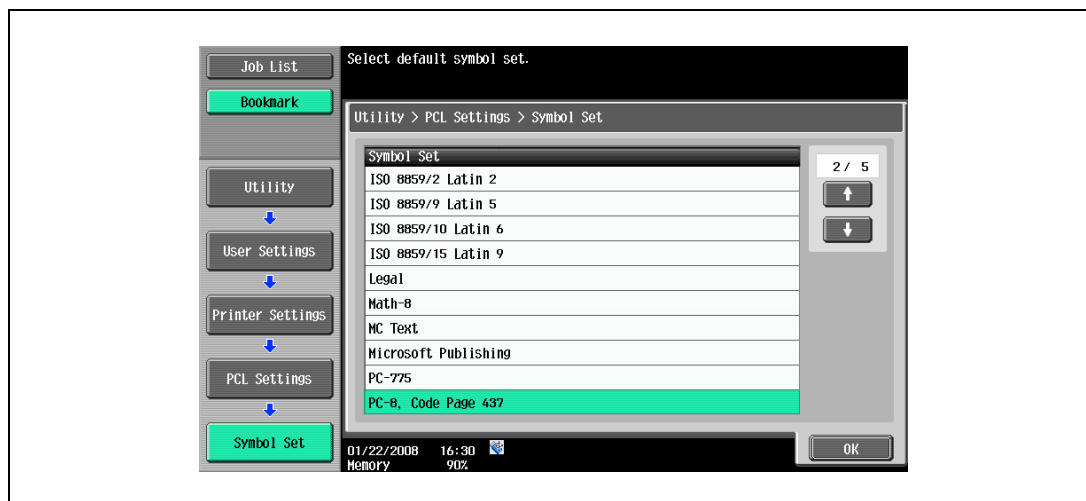
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [3 PCL Settings].
- 3 Touch [2 Symbol Set].



- 4 Touch the button for the desired setting.



- Touch or to switch the pages, and then touch the button for the desired setting.

- 5 Touch [OK].

12.2.18 Font Size (PCL)

You can specify the default font size setting. (Default settings: Scalable Font - 12.00 point; Bitmap Font - 10.00 pitch)

Scalable Font: Specifies the font size in points.

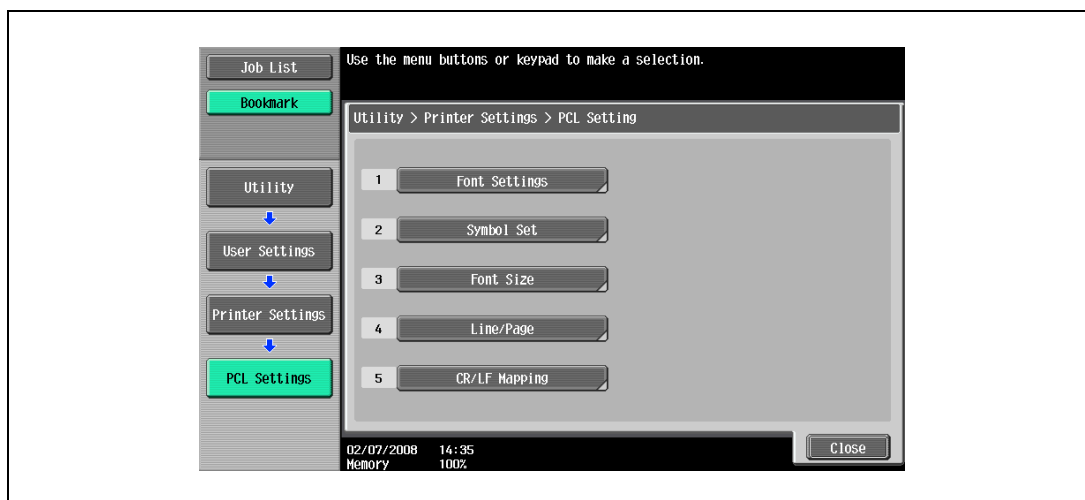
Bitmap Font: Specifies the width of the fixed-width font in pitches.



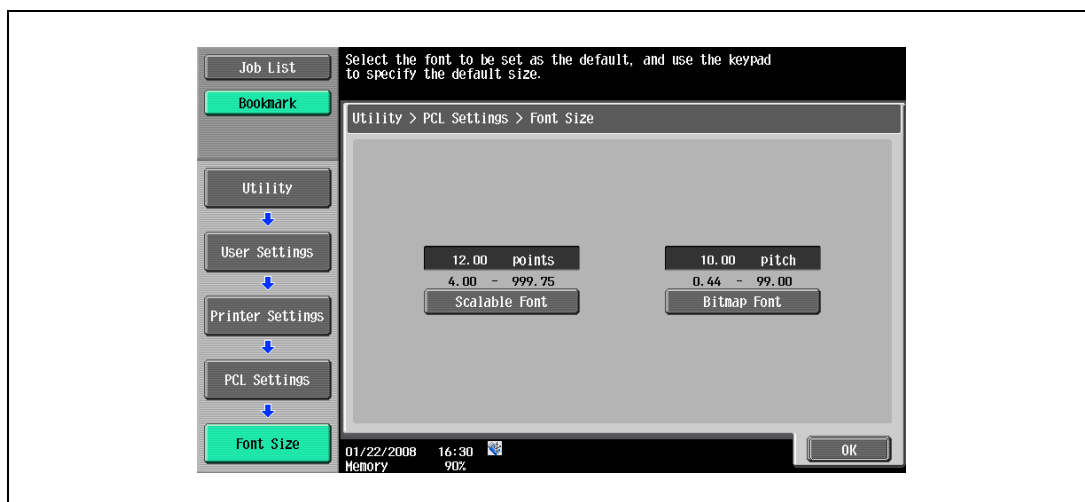
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [3 PCL Settings].
- 3 Touch [3 Font Size].



- 4 Press the [C] (clear) key to erase the value, and then use the keypad to type in the size. (Scalable Font: between 4.00 and 999.75 points; Bitmap Font: between 0.44 and 99.00 pitches).



- If a value outside of the allowable range is specified, the message "Input Error" appears. Type in a value within the allowable range.
- 5 Touch [OK].
The font size is set.

12.2.19 Line/Page (PCL)

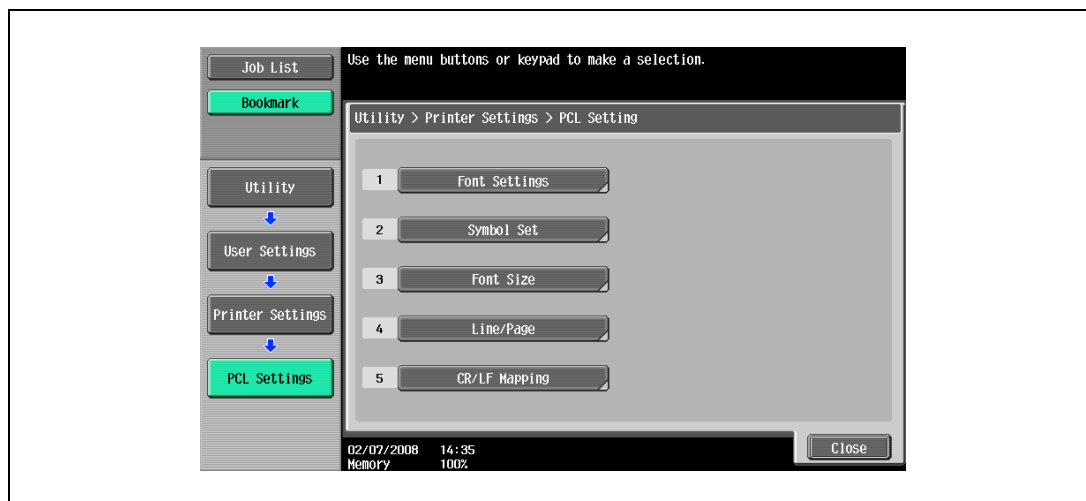
You can specify the number of lines per page when printing text. (Default setting: Varies from area to area)



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [3 PCL Settings].
- 3 Touch [4 Line/Page].



- 4 Press the [C] (clear) key to erase the value, and then use the keypad to type in the number of lines. (5 lines to 128 lines)



- If a value outside of the allowable range is specified, the message "Input Error" appears. Type in a value within the allowable range.

- 5 Touch [OK].
The number of lines per page is set.

12.2.20 CR/LF Mapping (PCL)

You can specify the CR/LF substitution method when printing text data. (Default setting: OFF)

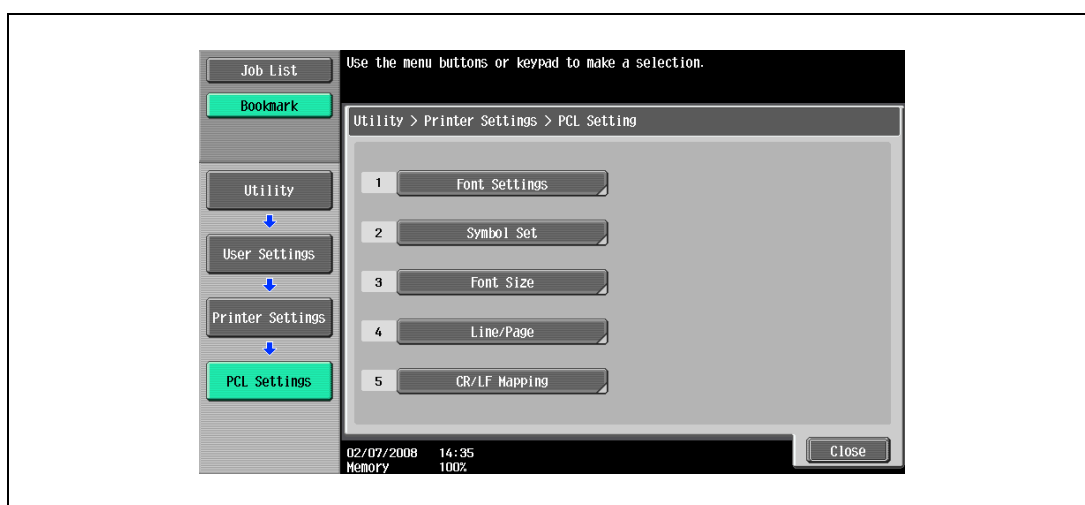
- [Mode 1]: Substitutes CR with CR-LF.
- [Mode 2]: Substitutes LF with CR-LF.
- [Mode 3]: Substitutes CR/LF with CR-LF.
- [OFF]: Does not perform substitution.



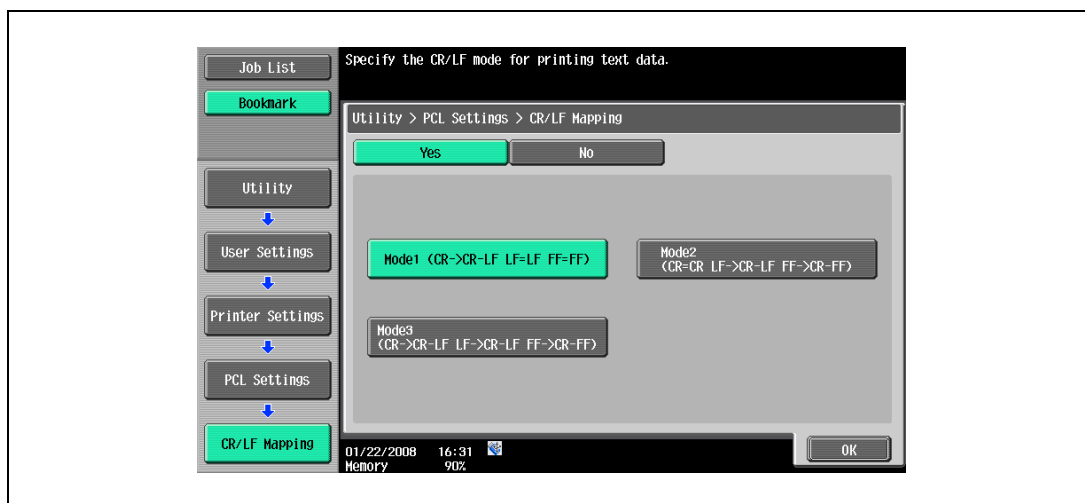
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [3 PCL Settings].
- 3 Touch [5 CR/LF Mapping].



- 4 Select [Yes] or [No]. If [Yes] is selected, be sure to also touch the button for the desired setting.



- 5 Touch [OK].

12.2.21 Print PS Errors

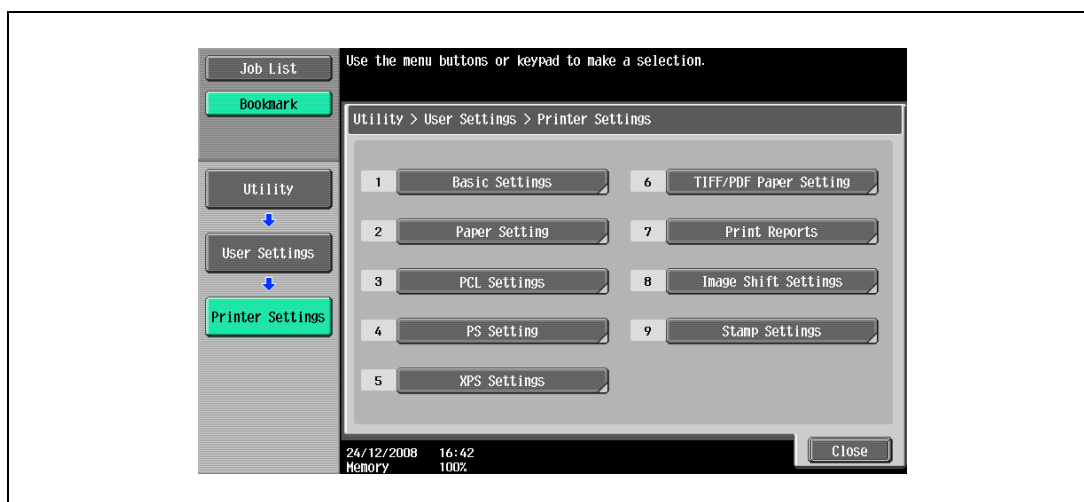
You can specify whether to print the error message when an error occurs during PS rasterization. (Default setting: OFF)



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [4 PS Settings].



- 3 Touch [Print PS Errors].



- 4 Touch the button for the desired setting.



12.2.22 Verify XPS Digital Signature

You can specify a setting to perform or not to perform digital signature verification in XPS printing. When "ON" is selected for signature verification, the document without a valid digital signature is not printed. (Default setting: OFF)



Detail

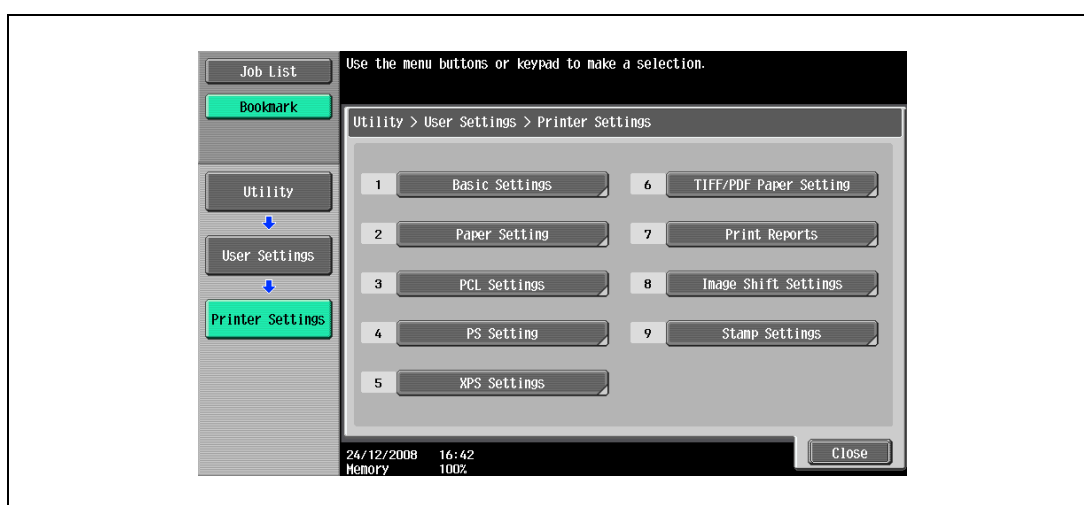
For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.



Note

If "Print XPS Errors" is set for information output, error information is printed when an error occurs upon signature verification. For details, refer to "Print XPS Errors" on page 12-54.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [5 XPS Settings].



- 3 Touch [Verify XPS Digital Signature].



- 4 Touch the button for the desired setting.



12.2.23 TIFF/PDF Paper Settings

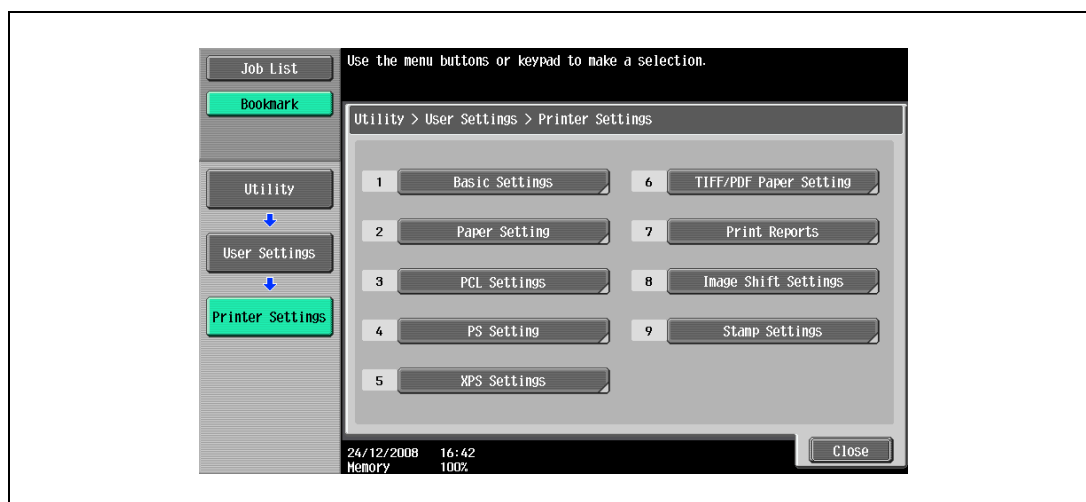
Set [Auto] or [Priority Paper size] for the TIFF/PDF Paper Setting.



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [6 TIFF/PDF Paper Setting].



- 3 Touch the [Paper Selection] and select the button for the desired setting.



12.2.24 Print Reports

This function outputs reports. You can output the following four types of reports. Here, the report output method is explained for an example to output the PCL font list.

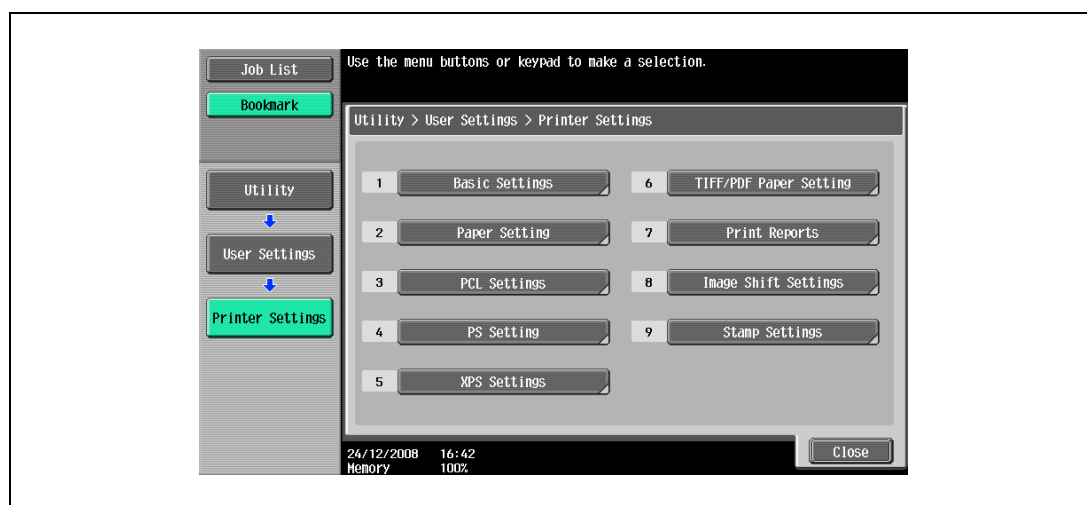
- Configuration Page: Outputs a list of settings in the machine.
- Demo Page: Outputs a test page.
- PCL Font List: Outputs the PCL font list.
- PS Font List: Outputs the PS font list.



Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

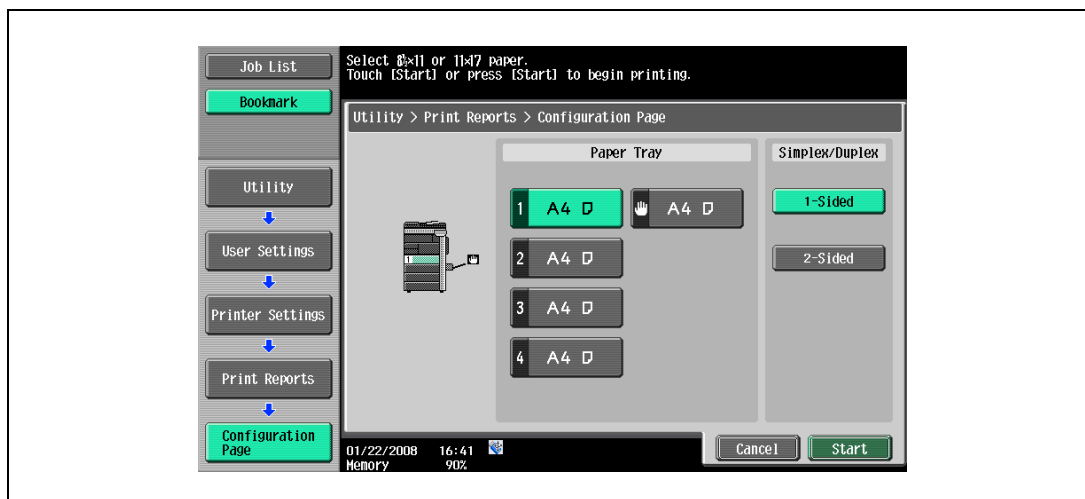
- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [7 Print Reports].



- 3 Touch the button for the desired setting.



- 4 Touch the button for the desired paper tray and touch [1-Sided] or [2-Sided].



- 5 To print a report, touch [Start] or press the [Start] key.

12.2.25 Image Shift Settings

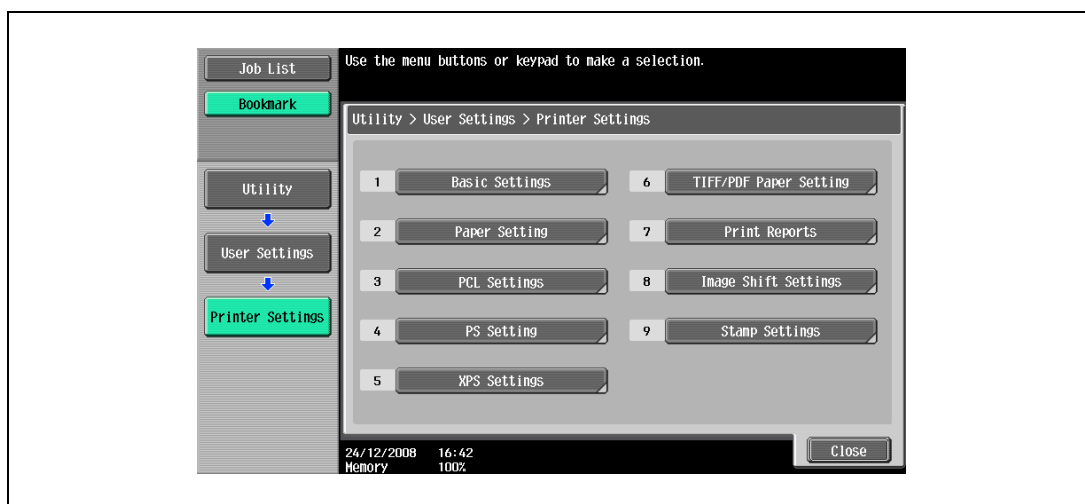
Set the shift width for the print image.



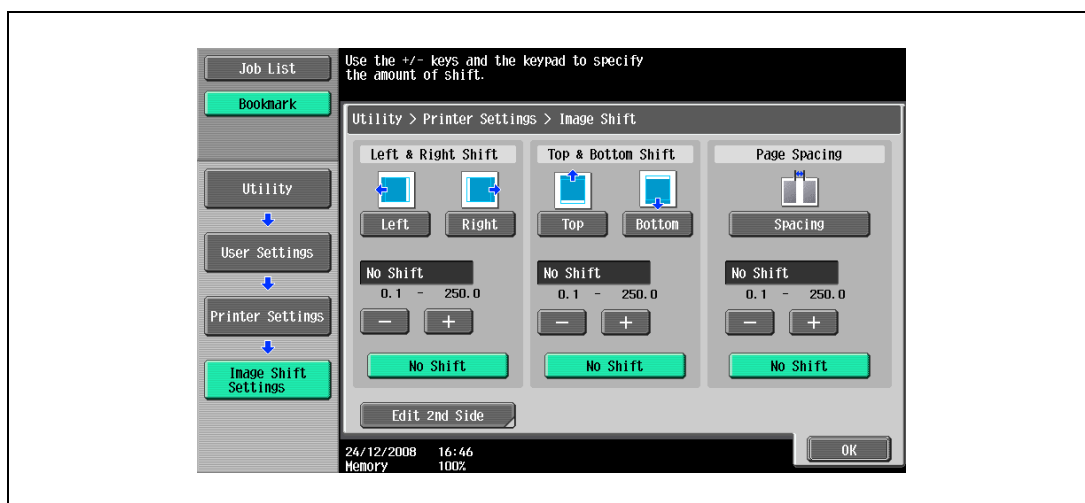
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [8 Image Shift Settings].



- 3 Set the shift widths for [Left & Right Shift], [Top & Bottom Shift] and [Page spacing].



- Pressing [Edit 2nd Side] allows you to set the shift width for back side.

12.2.26 Stamp Settings

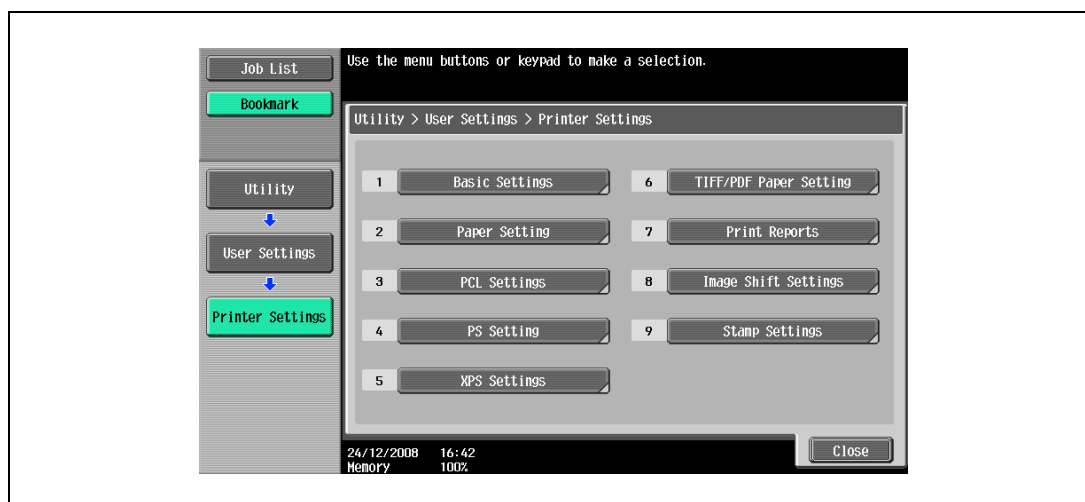
Make a setting for the stamp.



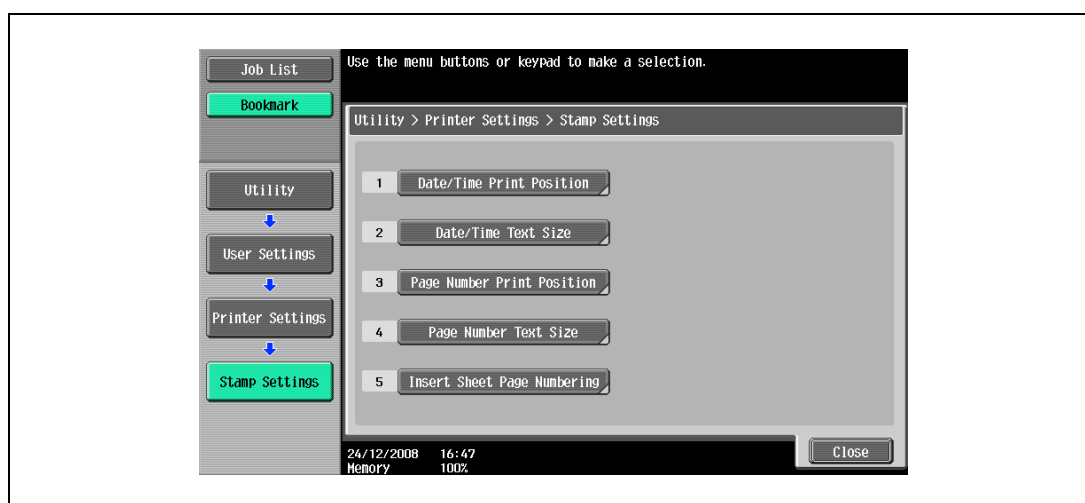
Detail

For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [9 Stamp Settings].

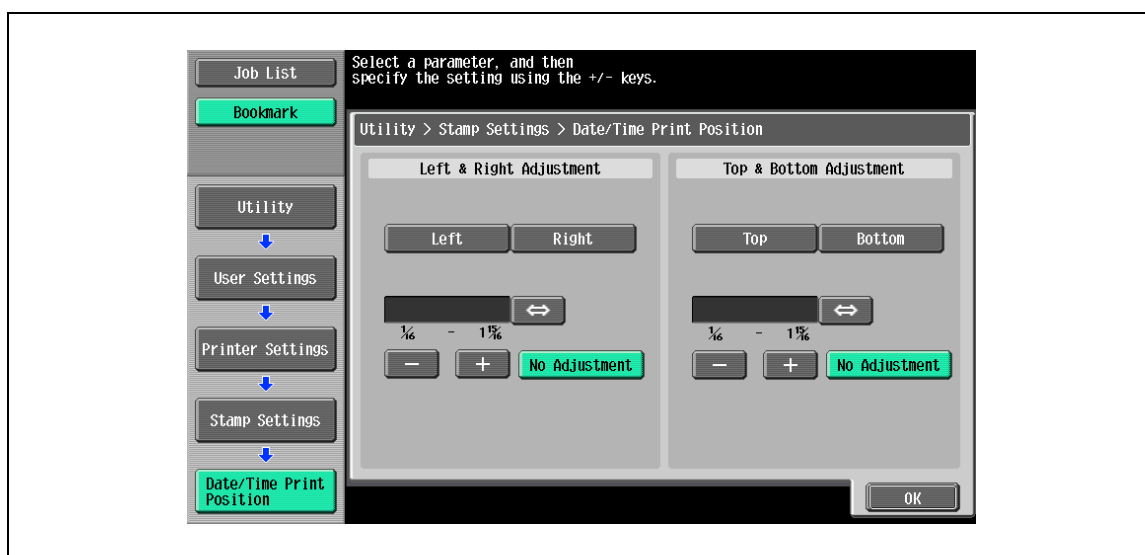


- 3 Press the desired key to set the Date/Time or the Page Number.



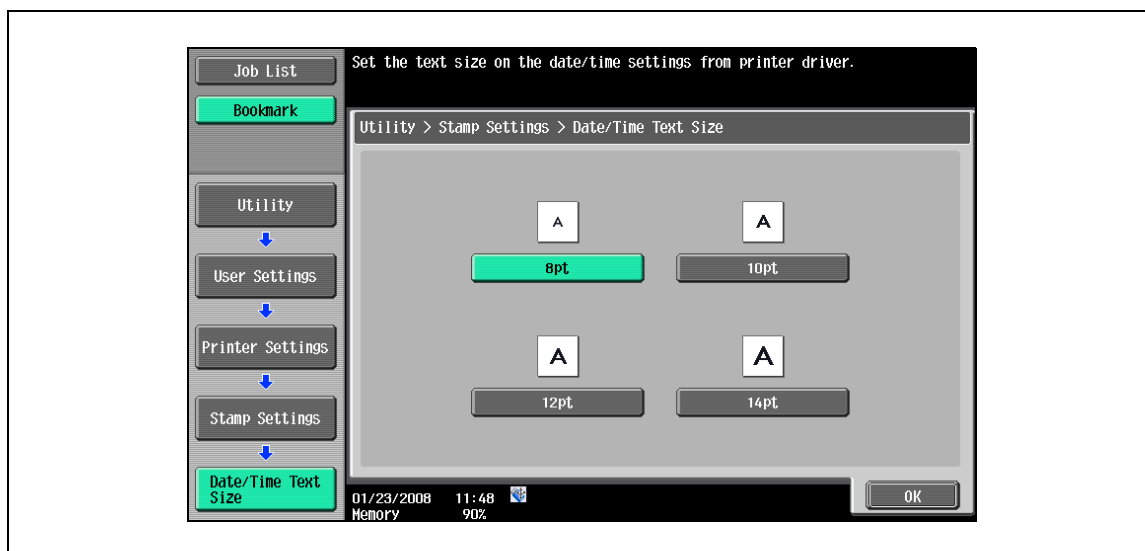
Date/Time Print Position

Set the printing position of the Date/Time.



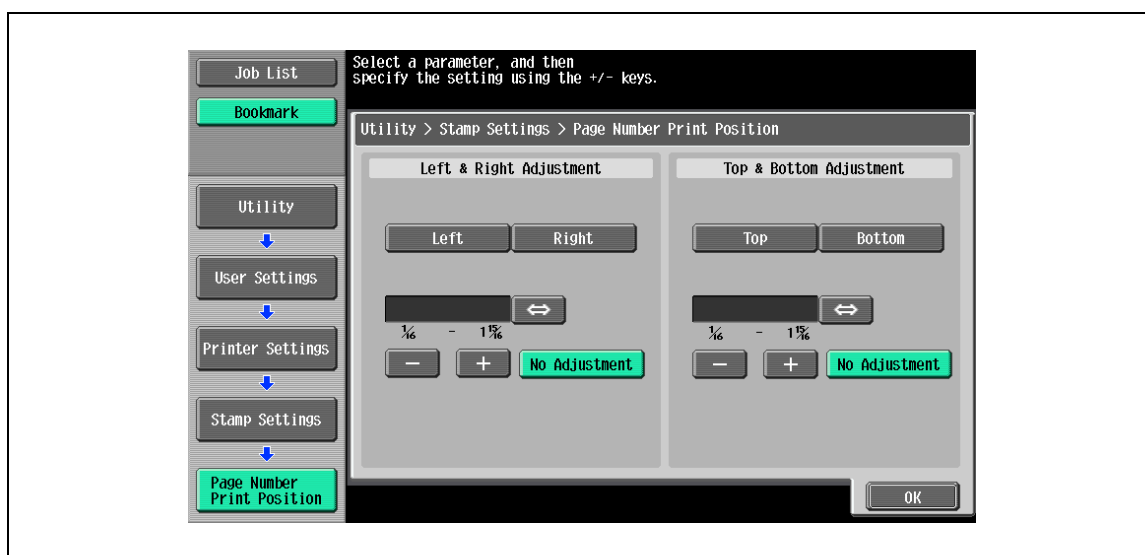
Date/Time Text Size

Set the text size of the Date/Time.



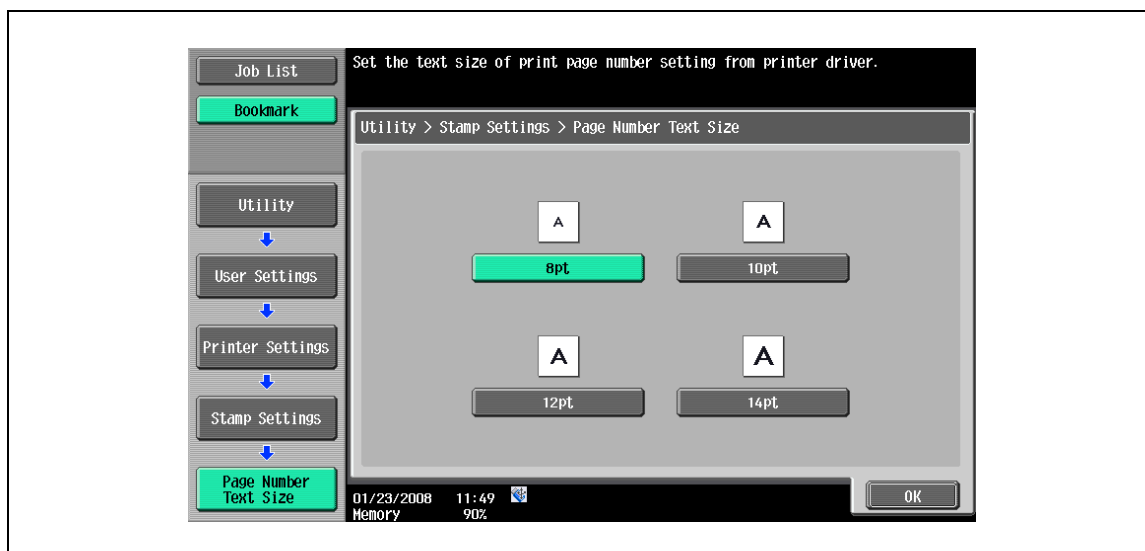
Page Number Print Position

Set the printing position of the Page Number.



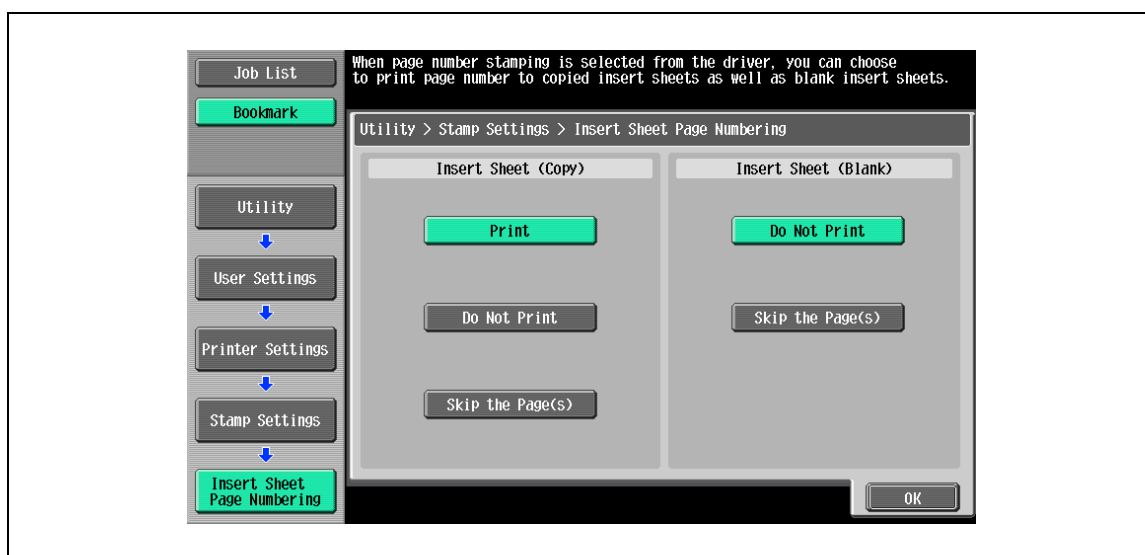
Page Number Text Size

Set the text size of the Page Number.



Insert Sheet Page Numbering

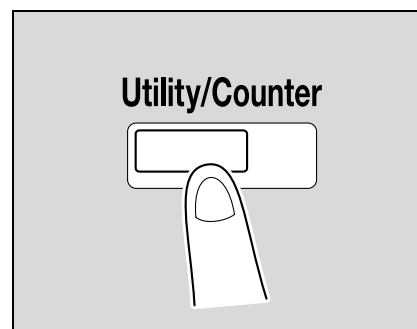
Specify whether to print a page number on inserted sheets.



12.3 Basic operations for Administrator Settings

12.3.1 Displaying the Administrator Settings screen

- 1 Press the [Utility/Counter] key.



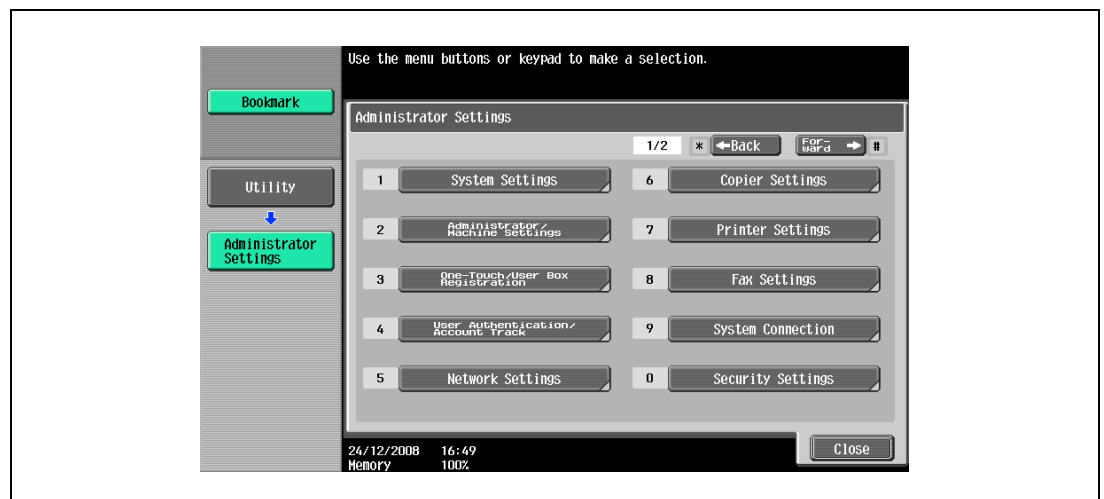
- 2 Touch [3 Administrator Settings].



3 Type in the password, and then touch [OK].



- When setting the Utility screen, you can also select a setting by using the keypad to enter the number next to the desired button. To select [3 Administrator Setting], press the [3] key in the keypad.
- For details on setting or changing the password, refer to the User manual – Copy Operations. The Administrator Settings screen appears.



Note

To quit specifying the Utility mode settings, press the [Utility/Counter] key. Otherwise, exit the Utility mode by touching [Close] in each screen until the screen for the Copy, Fax/Scan, or Box mode appears.

To return to the Utility menu, touch [Close] until the desired screen appears. You can also touch the menus in the left panel to return to the Utility menu.

12.4 Administrator Settings

12.4.1 Print/Fax Output Settings

You can specify whether to print data after it is received or to print it simultaneously as it is being received.

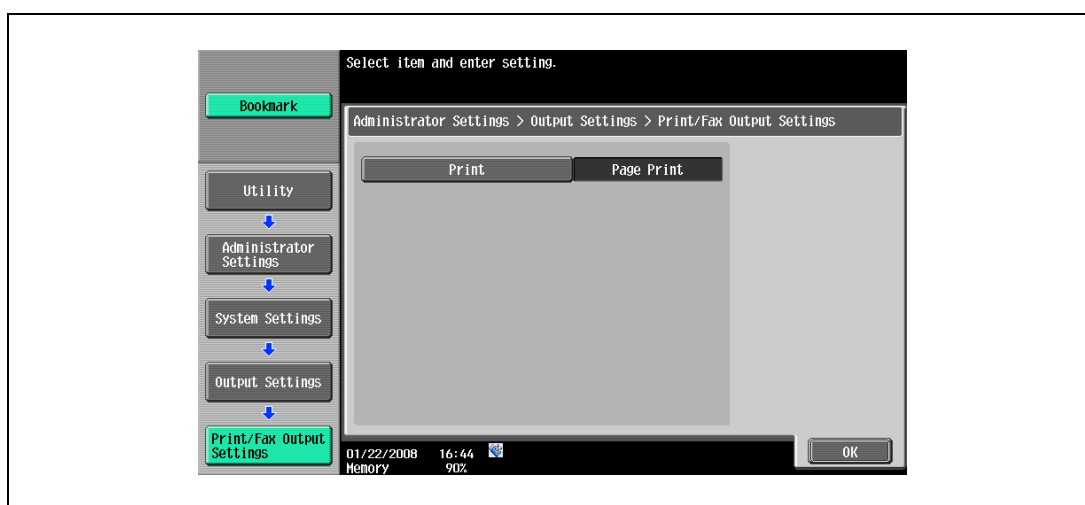
You can specify this function for the printer and for faxing, respectively. (Default settings: Printer - Page Print;)



Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

- 1 Touch [1 System Settings] in the Administrator Settings screen.
- 2 In the Systems Settings screen, touch [2 Output Settings].
- 3 Touch [1 Print/Fax Output Settings] in the Administrator Settings screen. The Print/Fax Output Settings screen appears.



- If the "Administrator Security Level" parameter is set to "Level 2", this setting can also be specified in the User settings. Touch [User Settings] - [System Settings] - [Output Settings] - [Print/Fax Output Settings] to display the Print/Fax Output Setting screen.
- For details on the user access levels, refer to the User manual – Copy Operations.

- 4 Touch [Printer].
Buttons for the available settings appear.



- 5 Touch the button for the desired setting.
The timing for printing data is set.

**Note**

If "Batch Print" is selected, printing starts when all the data is received and the print job is queued. If "Page Print" is selected, printing starts when the data for the first page is received and the print job is queued.

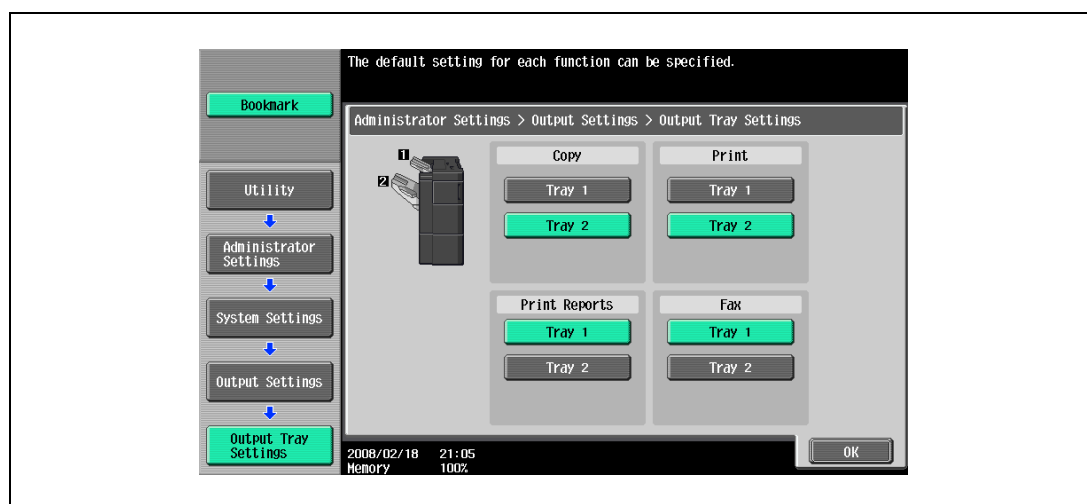
12.4.2 Output Tray Settings

You can specify the default output tray setting. (Default setting: Printer - Tray 1)

**Detail**

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

- 1 Touch [1 System Settings] in the Administrator Settings screen.
- 2 In the System Settings screen, touch [2 Output Settings].
- 3 In the Output Settings screen, touch [2 Output Tray Settings].
The Output Tray Settings screen appears.



- 4 Touch the button for the desired setting.
The output tray is set.

12.4.3 Delete Secure Print Documents

This function deletes all saved secure print documents.



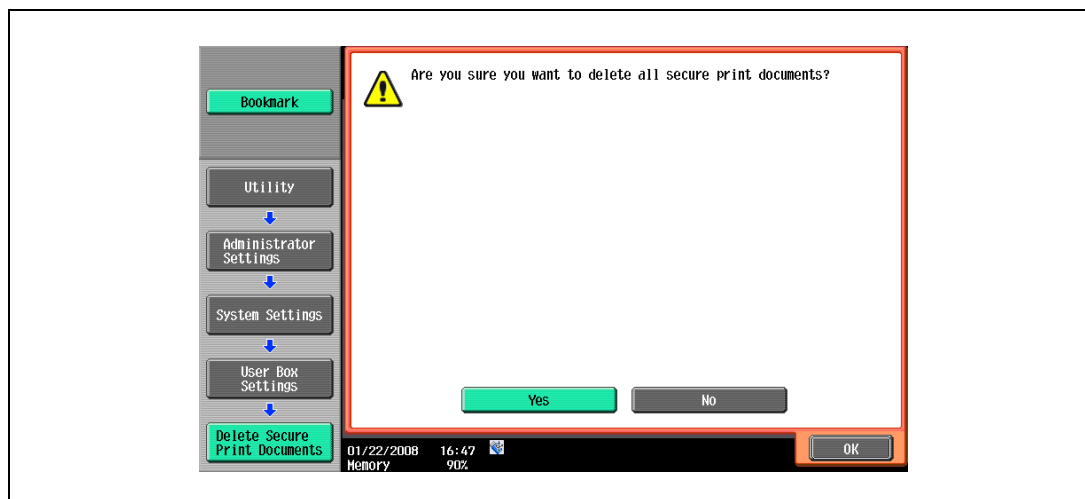
Detail

Installing the hard disk optionally provided allows you to use the Box (Public/Personal). For detailed functions of the box of the machine, refer to "User manual – Box Operation".

- 1 Touch [1 System Settings] in the Administrator Settings screen.
- 2 Touch [0 User Box Settings] in the System Settings screen.
- 3 Touch [2 Delete Secure Print Documents] in the User Box Settings screen.



- 4 To delete the secure print documents, touch [Yes].

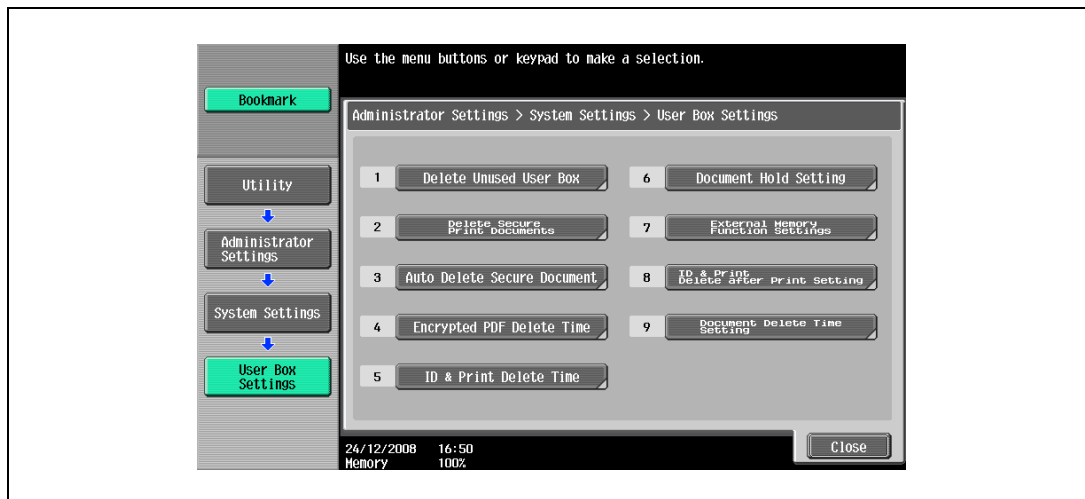


- 5 Touch [OK].

12.4.4 Auto Delete Secure Document

The length of time for deleting a secure document after it is saved can be specified.

- 1 Touch [1 System Settings] in the Administrator Settings screen.
- 2 Touch [0 User Box Settings] in the System Settings screen.
- 3 Touch [3 Auto Delete Secure Document] in the User Box Settings screen.



- 4 Select a time interval before deleting them.
 - To specify the time manually, press [Time] and then enter the time from the keypad.



- 5 Touch [OK].

12.4.5 ID & Print Delete Time

Specify the length of time for deleting an ID & print document after it is saved. (Default setting: 1 Day)

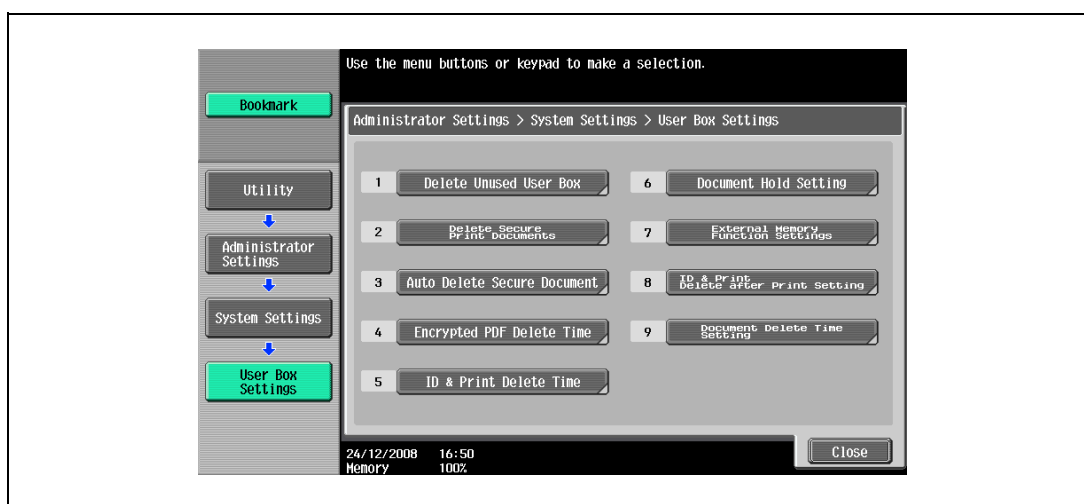


Detail

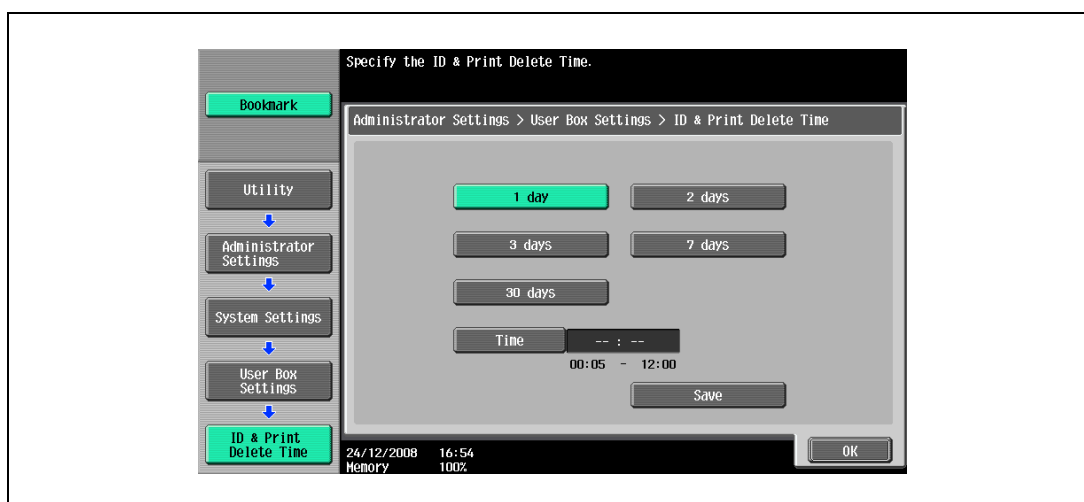
"ID & Print Delete Time" is displayed when the user authentication is enabled on the machine.

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

- 1 Touch [1 System Settings] in the Administrator Settings screen.
- 2 Touch [0 User Box Settings] in the System Settings screen.
- 3 Touch [5 ID & Print Delete Time] in the User Box Settings screen.



- 4 Select a time interval before deleting them.
 - To specify the time manually, press [Time] and then enter the time from the keypad.



- 5 Touch [OK].

12.4.6 ID & Print Delete after Print Setting

Specify whether to delete the ID & Print document after it is printed. (Default setting: Confirm with User)

- **Confirm with User:** Select this option to display the screen where the user can select whether the document printed from the ID & Print User Box is deleted after it is printed. Select this option if you want to leave the document.
- **Always Delete:** Select this option to delete the document after printing. Deletion is not confirmed with user.



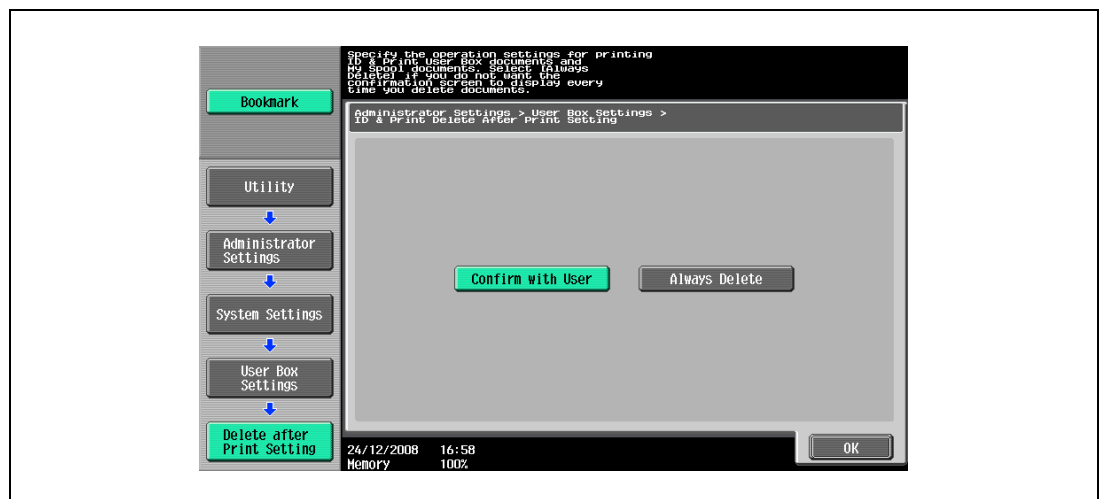
Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

- 1 Touch [1 System Settings] in the Administrator Settings screen.
- 2 Touch [0 User Box Settings] in the System Settings screen.
- 3 Touch [8 ID & Print Delete after Print Setting] in the User Box Settings screen.



- 4 Select [Confirm with User] or [Always Delete].



- 5 Touch [OK].

12.4.7 ID & Print Settings

Specify whether to use the ID & Print function on the machine that performs user authentication or account track. (Default setting: OFF)

- ID & Print "ON": Select this option to process all print jobs requested from a registered user as ID & Print jobs and save them in ID & Print User Box even if ID & Print is not enabled on the printer driver.
- ID & Print "OFF": Select this option to process jobs as ID & Print jobs only when "ID & Print" is enabled on the printer driver. Among print jobs requested from a registered user, "Print" jobs, for which "ID & Print" is not enabled on the printer driver, are output without being processed as ID & print jobs.
- Public User "Print Immediately": Select this option to output the public user jobs or jobs without user authentication information without saving.
- Public User "Save": Select this option to process the public user jobs or jobs without user authentication information as ID & Print jobs and save them in the ID & Print User Box.



Detail

A public user job is printed or saved when public user printing is enabled.

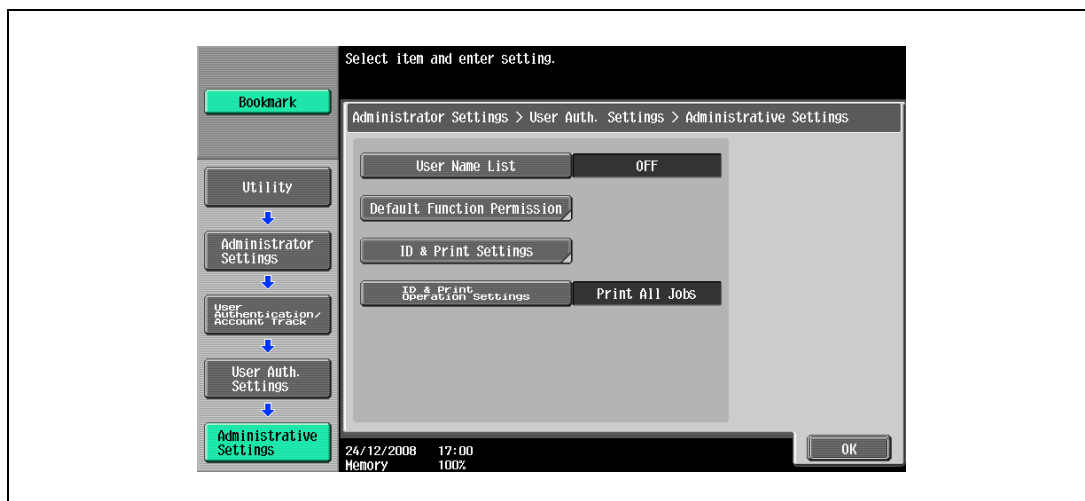
A user-unauthorized job is printed or saved when "Print without Authentication" is enabled.

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

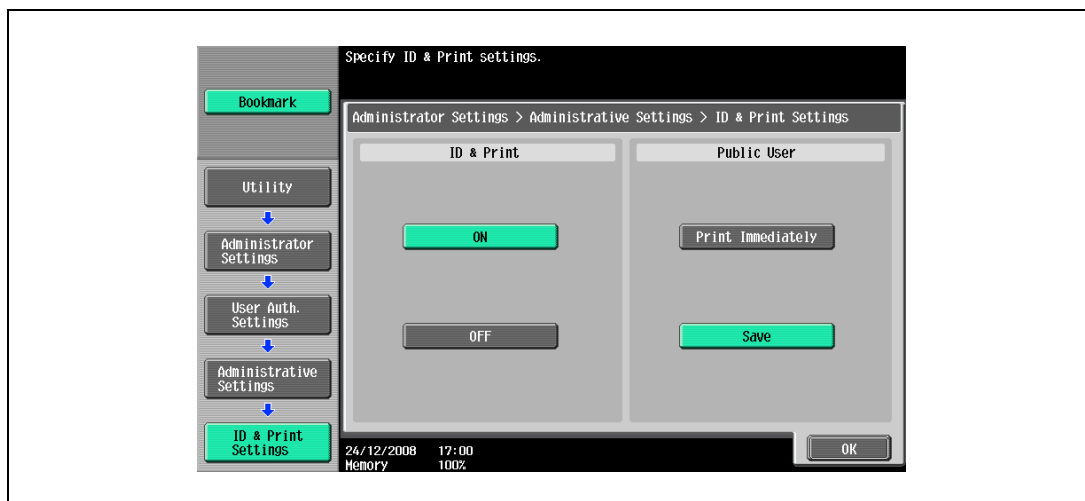
- 1 Touch [4 User Authentication/Account Track] in the Administrator Settings screen.
- 2 Touch [2 User Authentication] in the User Authentication/Account Track screen.
- 3 Touch [1 Administrative Settings] in the User Authentication screen.



- 4 Touch [ID & Print Settings] in the Administrative Settings screen.



- 5 Specify [ID & Print] and [Public User].



- 6 Touch [OK].

12.4.8 ID & Print Operation Settings

Specify the printing method when using the ID & Print function on an optional authentication unit. (Default setting: Print All Jobs)

- **Print All Jobs:** Select this option to print all the documents authenticated at one setting when multiple documents are saved in the ID & Print User Box.
- **Print Each Job:** Select this option to print a document for each authentication when multiple documents are saved in the ID & Print User Box.



Detail

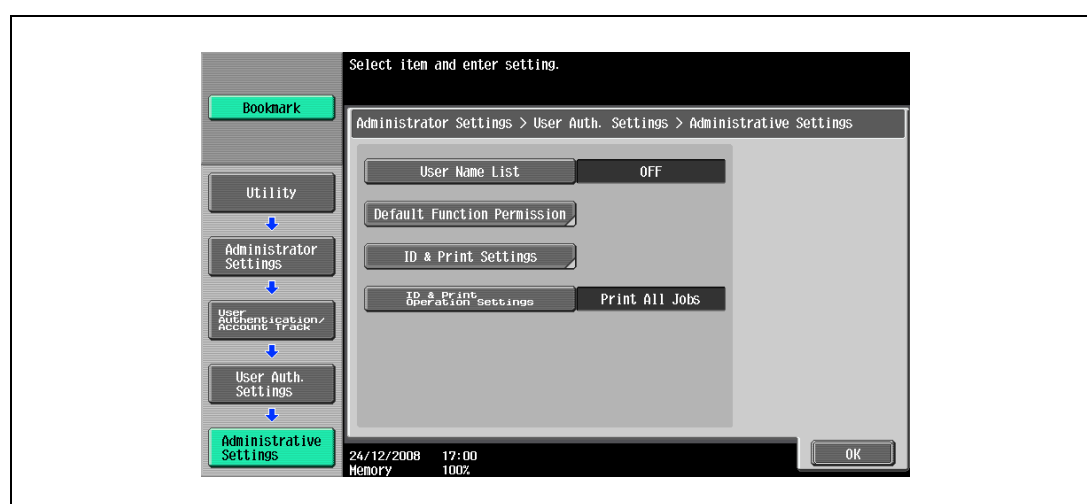
The ID & Print Operation Settings appears on the screen only when an optional authentication unit is installed.

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

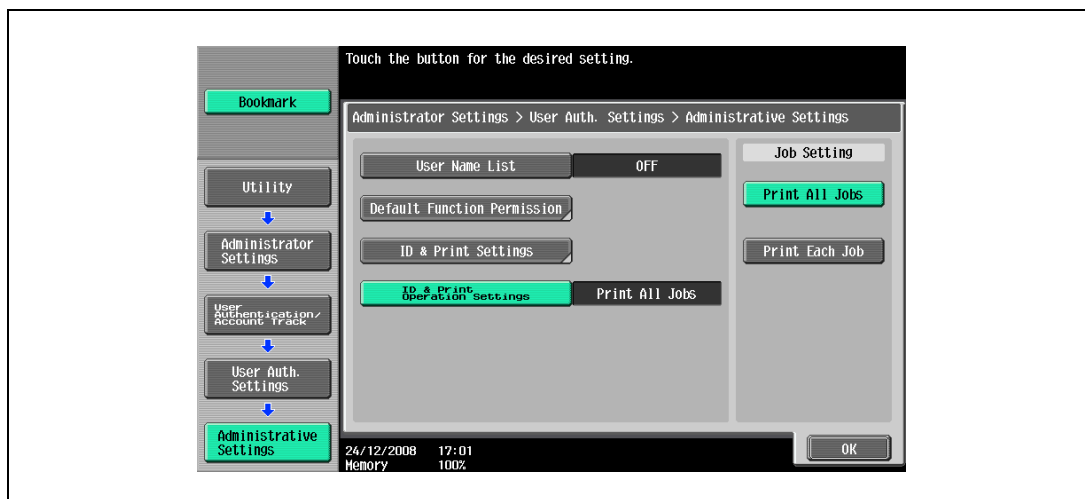
- 1 Touch [4 User Authentication/Account Track] in the Administrator Settings screen.
- 2 Touch [2 User Authentication] in the User Authentication/Account Track screen.
- 3 Touch [1 Administrative Settings] in the User Authentication screen.



- 4 Touch [ID & Print Operation Settings] in the Administrative Settings screen.



- 5 Specify [Print All Jobs] or [Print Each Job].



- 6 Touch [OK].

12.4.9 Print without Authentication

You can specify whether to allow print jobs without a specified user name or password to be printed when this machine is performing User Authentication or Account Track. (Default setting: Restrict)

- **Allow:** Allows print jobs to be printed when a user name and password for User Authentication or a department name and password for Account Track are not specified. The print job is counted as a public job.
- **Restrict:** Restricts print jobs to be printed when a user name and password for User Authentication or a department name and password for Account Track are not specified.



...

Reminder

If print jobs are allowed to be printed when authentication is not specified, printing is performed even if User Authentication or Account Track is not specified in the printer driver and this machine is performing User Authentication or Account Track. Select [Restrict] if you want control usage or for security reasons.

Regardless of the setting, "Allow" or "Restrict", a job is not printed and it is canceled if any setting for the user name (password) or department name (password) is wrong.



Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

- 1 In the Administrator Settings screen, touch [4 User Authentication/Account Track].
- 2 In the User Authentication/Account Track screen, touch [4 Print without Authentication].
- 3 Touch the button for the desired setting.
Specify whether Print without Authentication is allowed or restricted.



12.4.10 I/F Timeout

You can set the time until a communication timeout occurs for the USB or network interface. (Default setting: 60 sec.)



Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

- 1 In the Administrator Settings screen, touch [7 Printer Settings].
- 2 In the Printer Settings screen, touch the button of the desired interface setting.



- 3 Press the [C] (clear) key to erase the value, and then use the keypad to type in the time. (10 - 1,000 seconds)



- If a value outside of the allowable range is specified, the message "Input Error" appears. Type in a value within the allowable range.

- 4 Touch [OK].
The time until a communication timeout occurs is set.

12.4.11 Print XPS Errors

You can specify whether to print the error message when an error occurs during XPS printing. (Default setting: OFF)



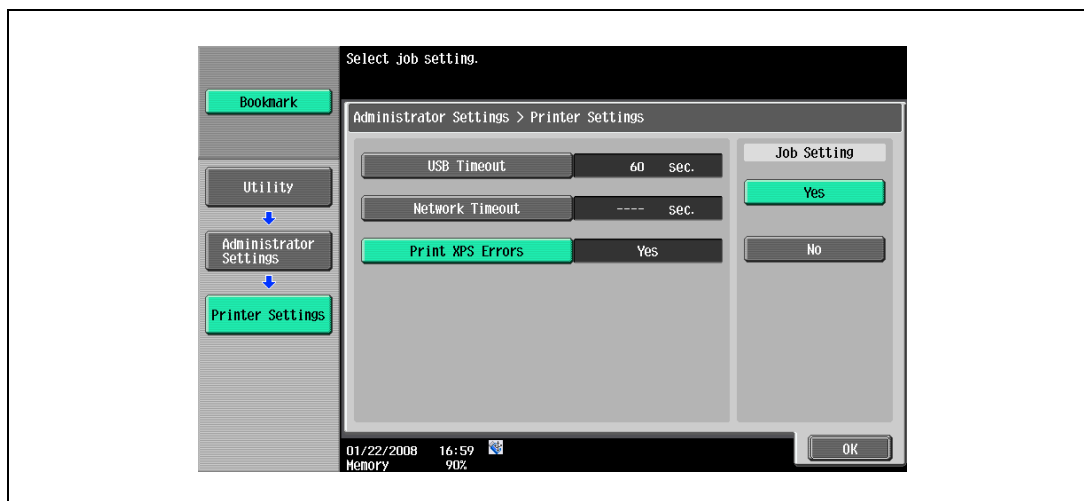
Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

- 1 In the Administrator Settings screen, touch [7 Printer Settings].
- 2 Touch [Print XPS Errors].



- 3 Touch the button for the desired setting.



- 4 Touch [OK].

12.4.12 Authentication Setting for OpenAPI Settings

If user authentication is performed with the Relay Server (PageScope Authentication Manager) or obtain the device information, specify the Authentication Setting of the OpenAPI Settings screen of this machine to "OFF". (Default setting: OFF)



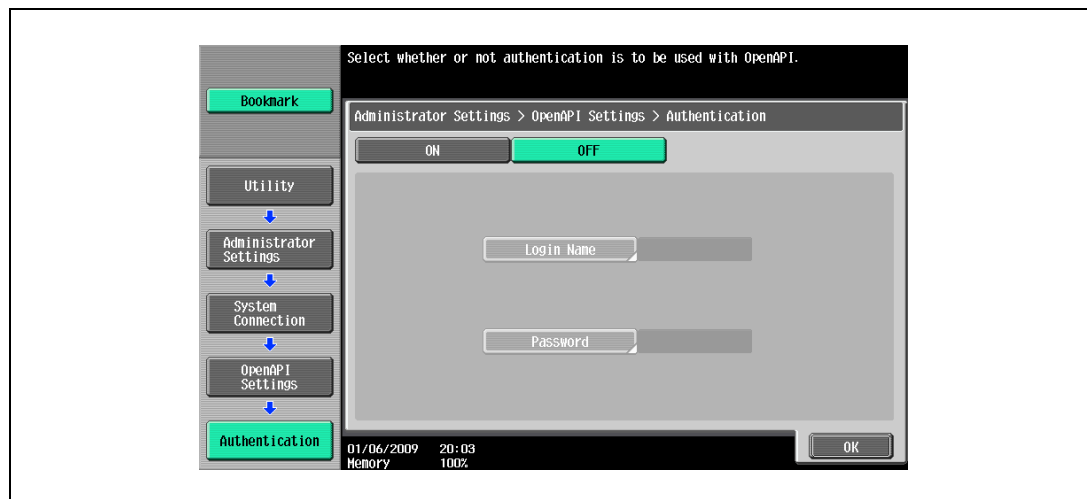
Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

- 1 Touch [9 System Connection] in the Administrator Settings screen.
- 2 Touch [1 Open API Settings] in the System Connection screen.
- 3 Touch [Authentication] in the OpenAPI Settings screen.



- 4 Set "Authentication" to [OFF].
The authentication settings are specified.



12.4.13 Print Data Capture

You can specify whether to allow or prohibit data capturing of a print job. (Default setting: Allow)



Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

For details on capturing a print job, contact your service representative.

- 1 In the Administrator Settings screen, touch [0 Security Settings].
- 2 In the Security Settings screen, touch [4 Security Details].
- 3 In the Security Details screen, touch [Print Data Capture].
Buttons for the available settings appear.



- 4 Touch the button for the desired setting is set.
The capturing of a print job is either allowed or prohibited.



Note

For details on capturing a print job, contact your service representative.

12.4.14 Secured Print Only

Specify whether the printing from the computer should be limited only to the security document. (Default: No)

Whenever printing is done from the printer driver, the data must be transmitted using the secure printing. Because this setting requires ID/password for every print job, your job is protected from intercepting by a third party.

- Yes: Select this option to limit the printing only to the secure documents.
- No: Select this option not to limit the printing to the secure documents.



Reminder

When you print a document on the machine with "Secure Print Only" set to "Yes", specify "Secure Print Only" on the printer driver so that only the "Secure Print" jobs are transmitted.

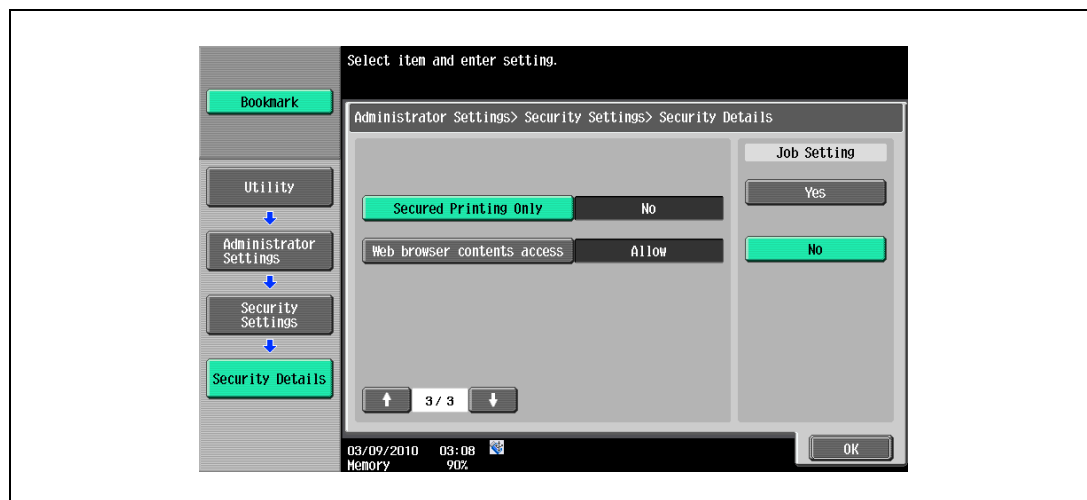
If a normal print job is sent to the machine where "Secure Print Only" is set to "Yes", the print job is deleted.



Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

- 1 In the Administrator Settings screen, touch [0 Security Settings].
- 2 In the Security Settings screen, touch [4 Security Details].
- 3 Switch the page by pressing the arrows, and then touch [Secured Printing Only].
- 4 Touch the button for the desired setting.



- 5 Press the [OK] button.

12.4.15 Driver Password Encryption Setting

This function enables setting to use the factory default or to change it to a user-defined encryption passphrase for the common encryption key to be added to print jobs. (Default setting: Use Factory Default)

- User-Defined: Set an encryption passphrase. Enter an encryption passphrase in 20 characters.
- Use Factory Default: Use the factory default encryption passphrase (encryption key (common key) that is already determined and that is not disclosed).



Note

User, account, and secure document passwords are encrypted by the common encryption key.

When "User-Defined" is selected for the encryption passphrase, select "Encryption Passphrase" in the printer driver to enable it, and then enter the same value.

If different values are used for the encryption passphrase for the machine and the printer driver, the machine cannot decrypt the encrypted user password, account password or secure document password. Then printing cannot be performed. For details, refer to "Specifying a user-defined encryption passphrase" on page 11-37.

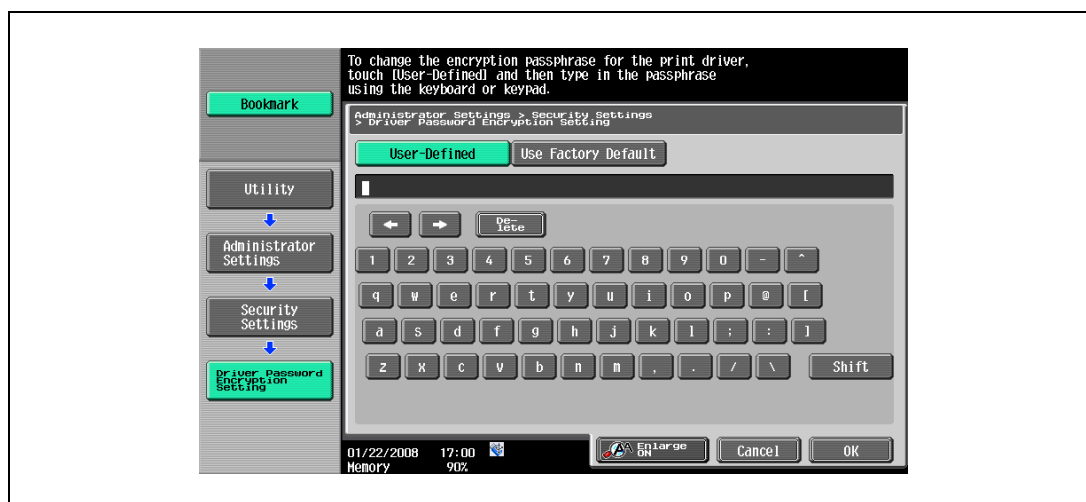
When SSL is enabled in OpenAPI and the printer driver can obtain the device information automatically, it is also possible to obtain the common encryption key from this machine automatically.



Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-40.

- 1 In the Administrator Settings screen, touch [0 Security Settings].
- 2 In the Security Settings screen, touch [0 Driver Password Encryption Setting].
- 3 Touch the button for the desired setting.



Detail

For the procedure for specifying "User-Defined" for the encryption passphrase, refer to "Specifying a user-defined encryption passphrase" on page 11-37.

13

PageScope Web Connection



13 PageScope Web Connection

13.1 Using PageScope Web Connection

PageScope Web Connection is a device management utility supported by the HTTP server integrated into the machine. Using a Web browser on a computer connected to the network, machine settings can be specified and the status of the machine can be checked.

In addition to the convenience of specifying some settings from your computer instead of with the machine's control panel, text can easily be typed in.

13.1.1 Operating environment

Network	Ethernet (TCP/IP)
Computer applications	Supported Web browsers: Microsoft Internet Explorer Ver. 6.0 or later recommended (JavaScript and Cookies enabled) Microsoft XML parser MSXML3.X must be installed when Internet Explorer Ver. 5.5 is being used. Netscape Navigator Ver. 7.02 or later (JavaScript and Cookies enabled) Mozilla Firefox Ver. 1.0 or later (JavaScript and Cookies enabled) Adobe® Flash® Player (Plug-in Ver. 7.0 or later required if "Flash" is selected as the display format) (To use in the IPv6 environment, Flash Player plug-in Ver. 9.0.115 or later is required.)



Note

Windows NT 4.0 and Mac OS 8/9 do not support versions on and after the Flash Player 8. When using an OS like these, download the Flash Player 7 from the Adobe site or select HTML in the display style of PageScope Web Connection.

13.1.2 Accessing PageScope Web Connection

PageScope Web Connection can be used from a Web browser.

- 1 Start the Web browser.
- 2 In the "Address" bar, enter the IP address of this machine, and then press the [Enter] key.
 - http:// (IP_address_of_machine) /
Example: If the IP address of this machine is 192.168.1.20
http://192.168.1.20/
 - If the machine is set to "use IPv6", enter an IPv6 address within [] when using a browser other than Internet Explorer.
http://[IPv6_address_of_machine]/
Example: If the IPv6 address of this machine is fe80::220:6bff:fe10:2f16
http://[fe80::220:6bff:fe10:2f16]
 - If the machine is set to "use IPv6" and Internet Explorer 6.0 is being used, first edit the hosts file to include "fe80::220:6bff:fe10:2f16IPv6_MFP_1", and then specify the URL with the domain name.

The User mode page that appears is for a user who has logged on.



Detail

If user authentication settings have been specified, the user name and password must be entered. For details, refer to "Logging on as a registered user" on page 13-10.

For details on specifying the IP address of this machine, refer to the User manual – Network Administrator.

PageScope Web Connection has Flash and HTML display formats. For details, refer to "Logging on and logging off" on page 13-7.

13.1.3 Web browser cache

The most recent information may not appear in the PageScope Web Connection pages because older versions of pages are saved in the cache for the Web browser. In addition, problems may occur when the cache is used.

When using PageScope Web Connection, disable the cache for the Web browser.



Reminder

The menus and commands may vary depending on the Web browser version. For details, refer to the Help for the Web browser.

If the utility is used with the cache enabled and Administrator mode was timed out, the timeout page may appear even when PageScope Web Connection is accessed again. In addition, since the machine's control panel remains locked and cannot be used, the machine must be restarted with the main power switch. In order to avoid this problem, disable the cache.

With Internet Explorer

- 1 On the "Tools" menu, click "Internet Options".
- 2 On the General tab, click the [Settings] button under "Temporary Internet files".
- 3 Select "Every visit to the page", and then click the [OK] button.

With Netscape Navigator

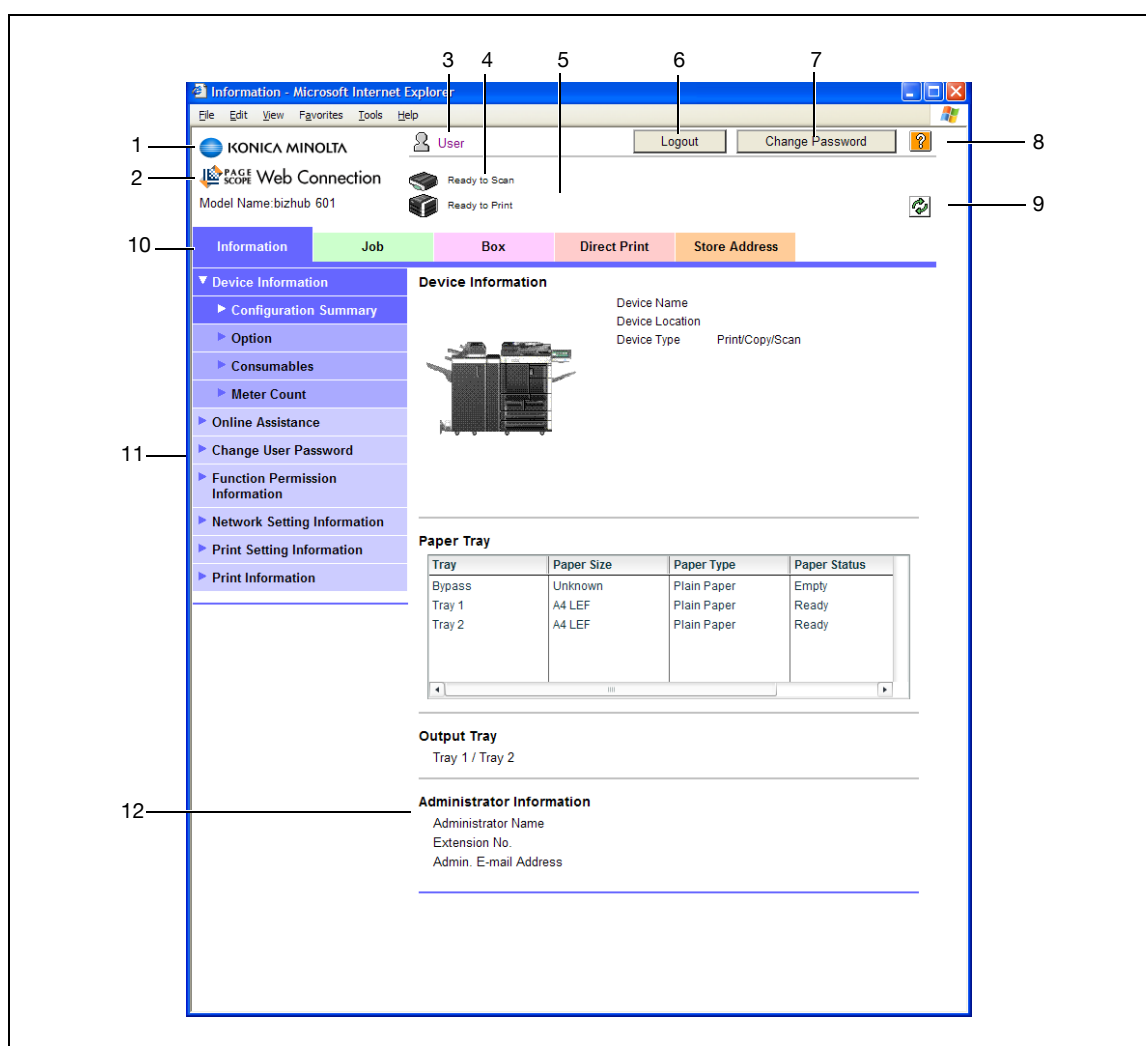
- 1 On the "Edit" menu, click "Preferences".
- 2 Under "Category" on the left, click "Advanced", then "Cache".
- 3 Under "Document in cache is compared to document on network:", select "Every time".

With Mozilla Firefox

- 1 On the "Tools" menu, click "Options".
- 2 Click "Privacy", and then click the [Settings] button at the bottom of the dialog box.
- 3 Select the "Cache" check box under "Private data", select the "Clear private data when closing Firefox" check box under "Settings", and then click the [OK] button.

13.1.4 Structure of pages

The pages of PageScope Web Connection are constructed as shown below.



No.	Item	Description
1	Konica Minolta logo	Click the logo to go to the Konica Minolta Web site at the following URL. http://konicaminolta.com
2	PageScope Web Connection logo	Click the logo to display the version information for PageScope Web Connection.
3	Logon user name	Displays the icon of the current mode and the name of the user who is logged on (public, administrator, user box administrator, registered user or account). Click the user name to display the name of the user who is logged on.
4	Status display	Displays icons and messages indicating the status of the printer and scanner sections of the machine. If an error occurred, click the icon to display the error information (consumables, paper trays and registered user information) so that the status can be checked.
5	Message display	Displays the operating status of the machine.
6	[Logout] button	Click to log off from the current mode.
7	[Change Password] button	Click to go to the Change User Password page. (Refer to "Information" on page 13-13.) This button appears only in User mode when a registered user is logged on.
8	Help	Click to display the page specified as the online manual Web page. For details on specifying the Web page, refer to "Information" on page 13-13.
9	[Refresh] button	Click to update the displayed page.

No.	Item	Description
10	Tabs	Select the category of the page to be displayed. The following tabs are displayed in User mode. <ul style="list-style-type: none">• Information• Job• Box• Direct Print• Store Address
11	Menu	Information and settings for the selected tab are listed. The menu that appears differs depending on the tab that is selected.
12	Information and settings	Displays details of the item selected in the menu.

**Detail**

The page that appears immediately after accessing the machine with PageScope Web Connection is called the "User mode" page. This page appears when a user has logged on.

If user authentication settings have been specified, the user name and password must be entered. For details, refer to "Logging on as a registered user" on page 13-10.

The PageScope Web Connection pages appear differently depending on the options installed on the machine and the specified machine settings. For details on logging on as a different user or as the administrator, refer to "Logging on and logging off" on page 13-7.

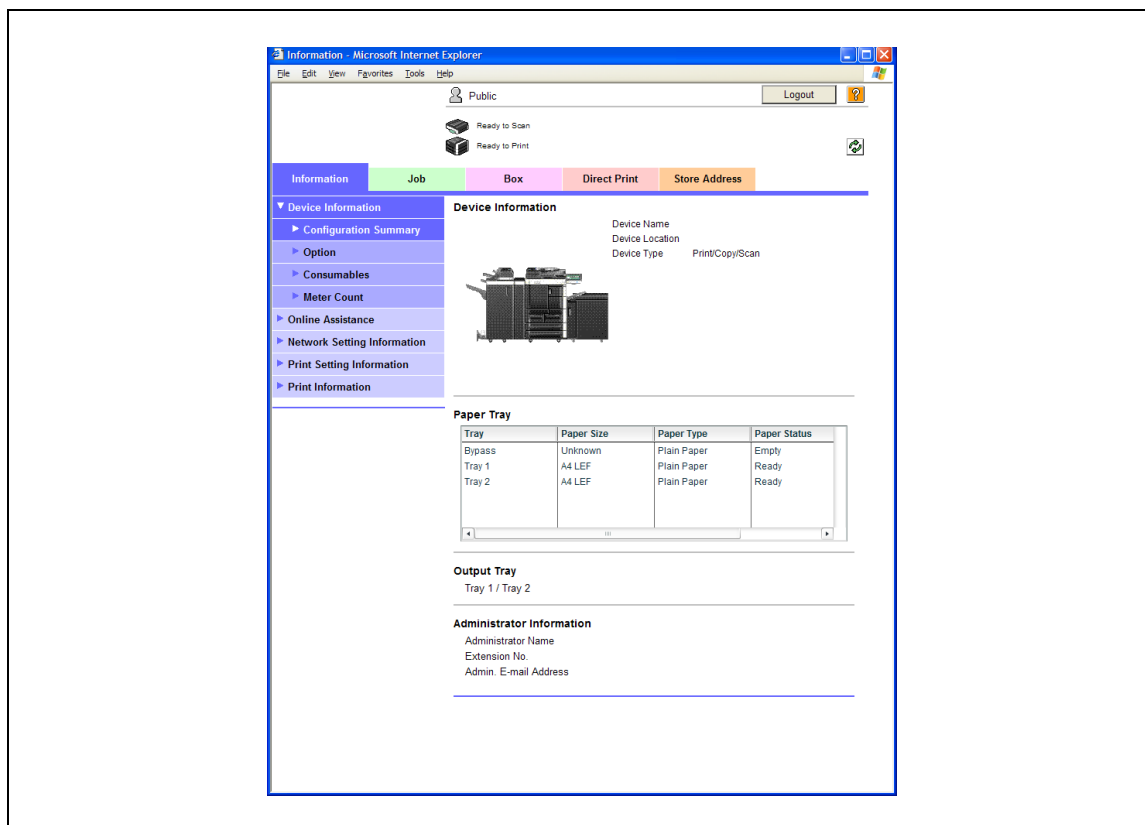
13.2 Logging on and logging off

13.2.1 Login and logout operations

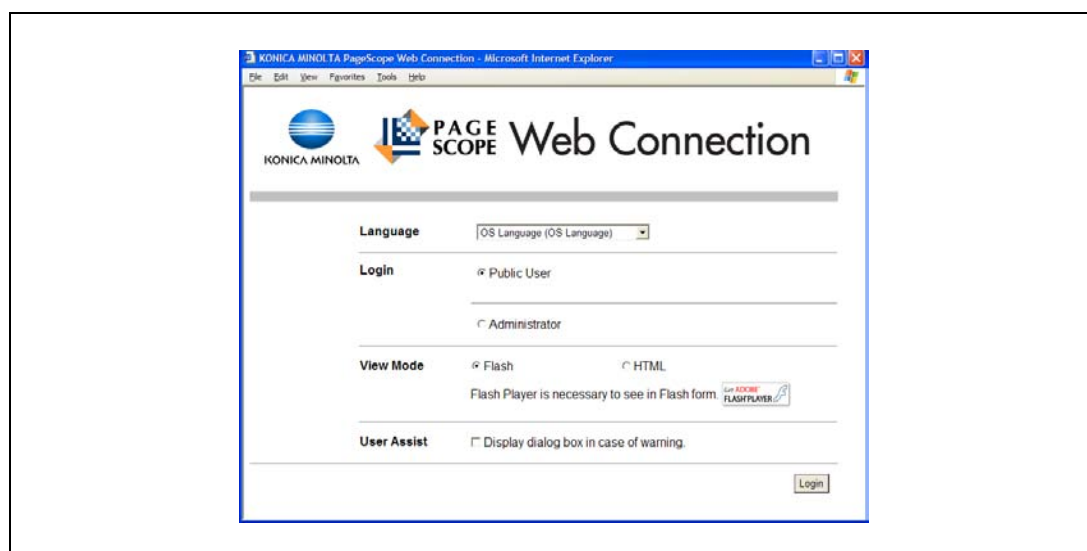
When the machine is accessed with PageScope Web Connection, the logon page appears if user authentication and account track settings have been specified on the machine. If user authentication and account track settings have not been specified, the page for a public user appears. In order to log on as a different user or as an administrator after logon, it is necessary to log off first, then log on again.

When user authentication and account track settings are not specified

The user logs in automatically as a public user.



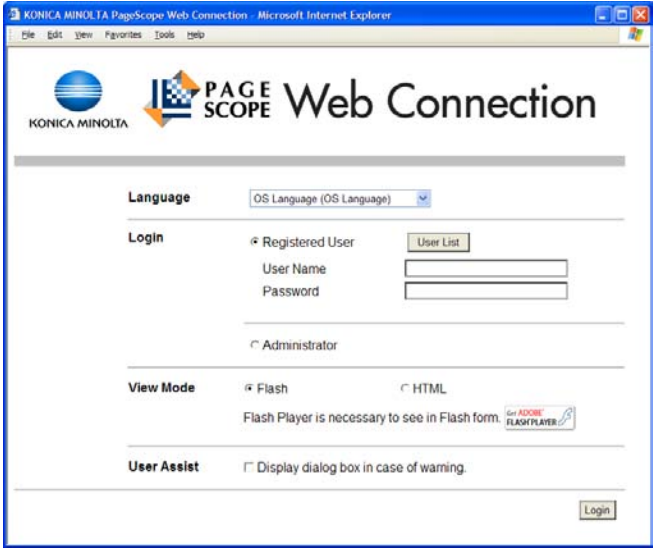
- 1 To log in as an administrator, log out.
- 2 Log in again as an administrator.



When user authentication and account track settings are specified

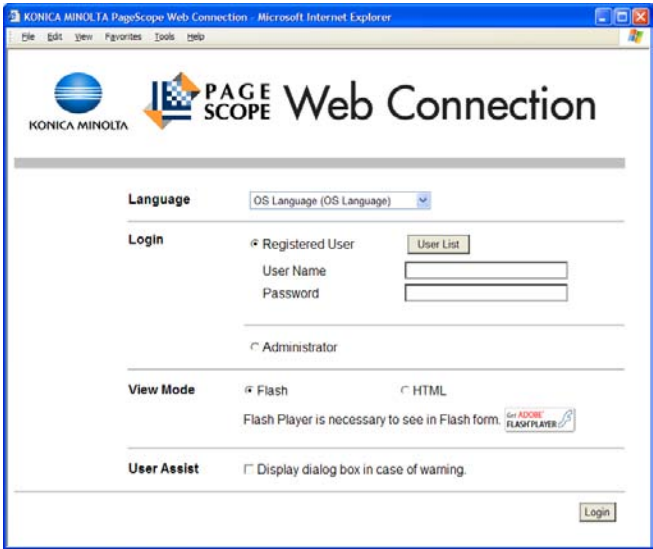
The User Authentication/Account Track screen appears.

- 1 Enter the required information to log in.



- 2 To log in as a different user or an administrator, log out.

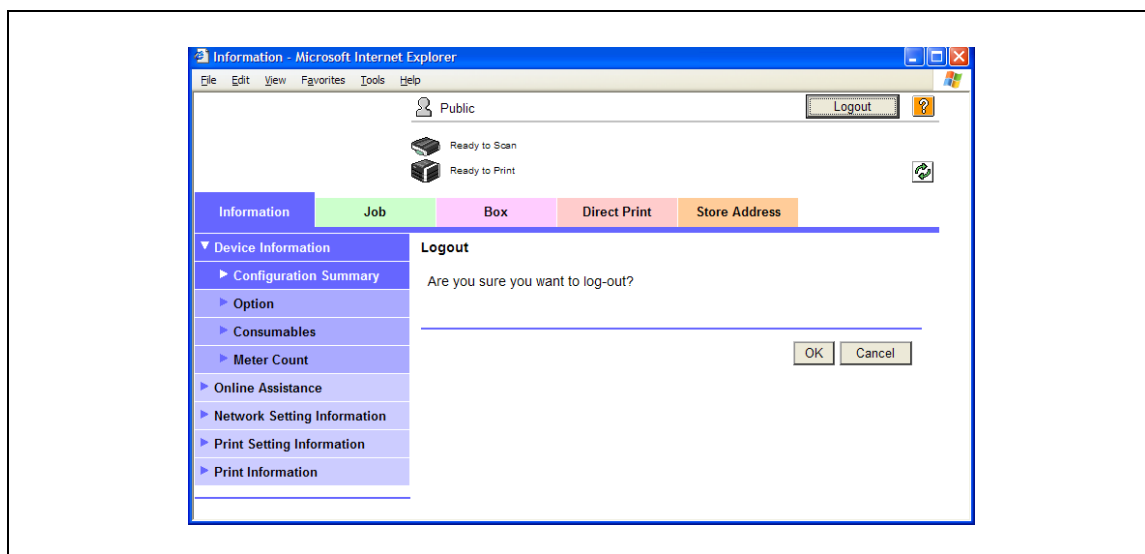
- 3 Log in again.



13.2.2 Logout

When the [Logout] in the upper right screen is clicked, a logoff confirmation screen appears.

→ Click [OK], and the logon page appears again.



Detail

The logon page that appears differs depending on the authentication settings specified on the machine.

If a timeout occurs because no operation is performed for a set length of time while logged on or if the authentication settings are changed from the machine's control panel while logged on to User mode, you will automatically be logged off.

For details on specifying the timeout periods for User mode and Administrator mode, refer to "Security" on page 13-20.

13.2.3 Login

Depending on the logon method used, PageScope Web Connection will be in User mode or Administrator mode. Depending on user authentication or user box administrator setting, it is possible to log on to PageScope Web Connection as an administrator or user box administrator in User mode.



Detail

If control panel settings have been specified to allow user box administrators, it is possible to log on to PageScope Web Connection as a user box administrator. For details on the user box administrator settings, permissions and password settings, refer to the User manual – Box Operations.

If you log in to PageScope Web Connection as an administrator in the User mode, it is possible to delete jobs that cannot be done so in the Administrator mode.

Options that can be selected when logged on to PageScope Web Connection

If necessary, select the display language and format.

If "When in warning, the dialog is displayed." check box is selected, warning messages appear during operation after logon.

If "Flash" is selected as the display format, the following items are displayed using Flash.

- Status icons and messages
- Status of "Paper Tray" in the page displayed when "Device Information" is selected on the Information tab.
- Tab on the Job tab

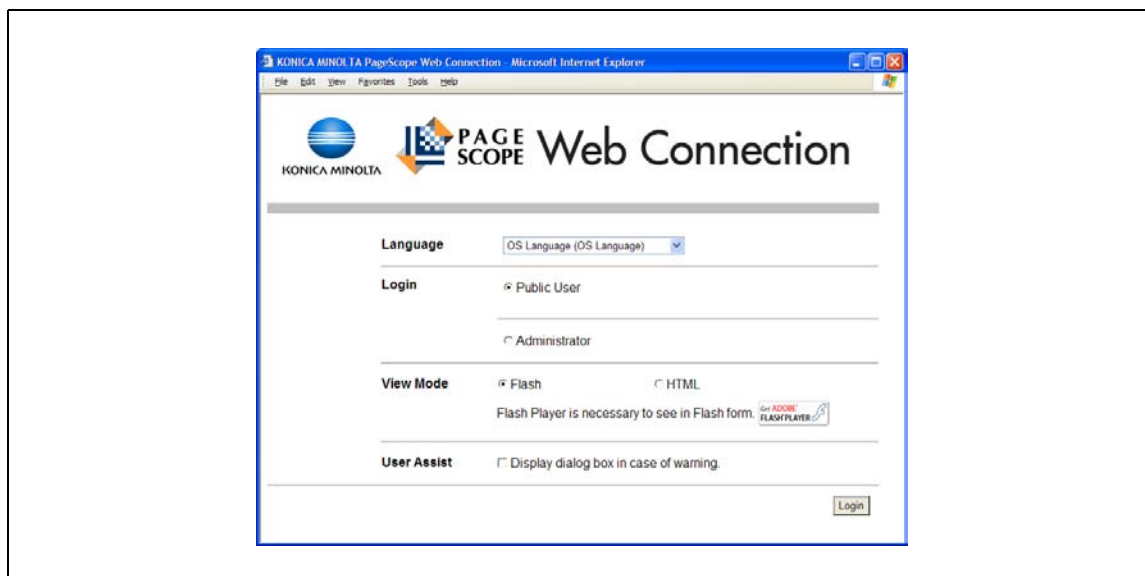
Flash Player is required in order to use the "Flash" features.

If screen reader software is used, we recommend selecting "HTML" as the display format.

Logging on as a public user

If user authentication settings have not been specified on the machine, logon will be as a public user.

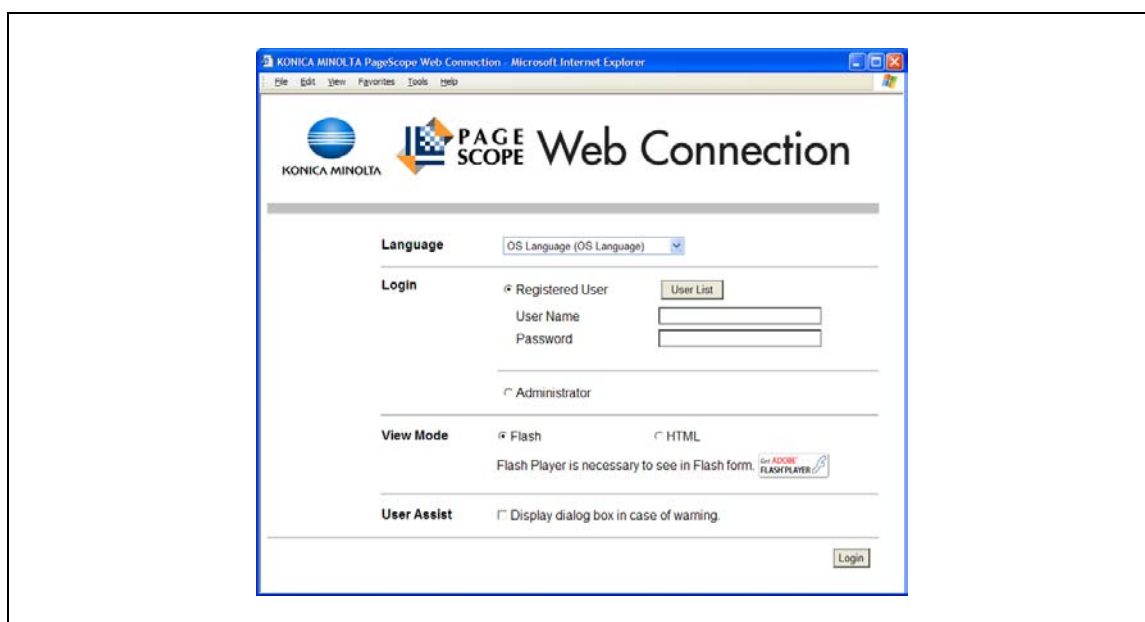
→ In the logon page, select "Public user", and then click the [Login] button.



Logging on as a registered user

If user authentication settings have been specified on the machine, the name and password for a registered user is required to log on.

- In the logon page, enter the user name and the password, and then click the [Login] button.
- If account track settings have been specified, type in the account name and password.
 - To select a user name from a list, click the [User List] button.
 - If external server authentication is selected, select a server.
 - To log on to PageScope Web Connection as the administrator in User mode, select "Administrator" - "Administrator (User Mode)", and then enter the administrator password.





Detail

If "Prohibited Functions When Authentication Error" in Administrator mode is set to "Mode 2" and a user enters an incorrect password the specified number of times, that user is locked out and can no longer use the machine. Contact the administrator to cancel operation restrictions.

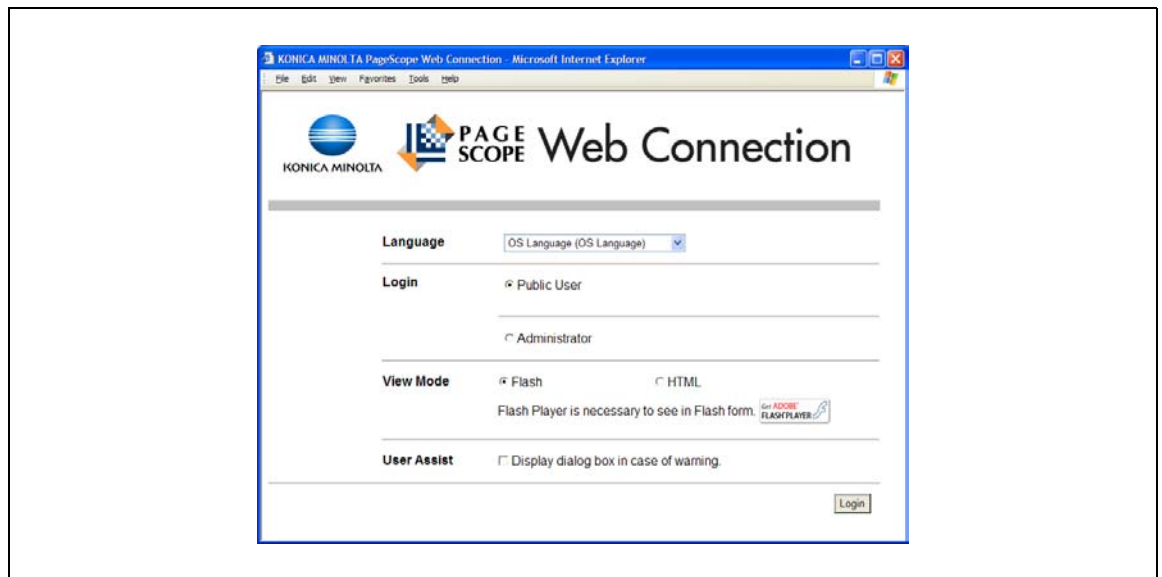
The [User List] button can be used when "User Name List" is specified as "ON".

For details of the setting of the user names list, refer to the User manual – Copy Operations.

Logging on to Administrator mode

In order to specify system and network settings, log on to Administrator mode.

- In the logon page, select "Administrator", enter the administrator password, and then click the [Login] button.



Detail

When logged in to Administrator mode, the control panel of the machine is locked and cannot be used.

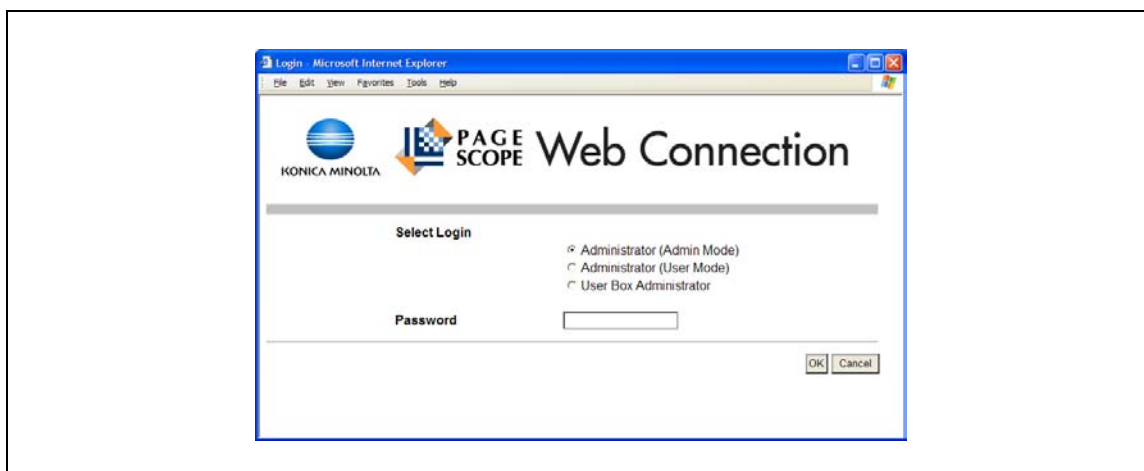
Depending on the status of the machine, you may not be able to log in to Administrator mode.

If "Prohibited Functions When Authentication Error" in Administrator mode is set to "Mode 2" and an incorrect password is entered the specified number of times, it is no longer possible to log in to Administrator mode. For details on the "Prohibited Functions When Authentication Failed" parameter, refer to the User manual – Copy Operations.

The password input dialog box varies depending on the specified machine settings.

Logging on as a user box administrator

If user authentication settings have been specified on the machine, you can log on as an administrator in User mode to delete jobs. If user box administrators have been allowed in the control panel, it is possible to log on to PageScope Web Connection as a user box administrator in User mode.



- In the login page, select "Administrator", and then click the [Login] button.
 - To log on to PageScope Web Connection as the user box administrator in User mode, select "User Box Administrator", and then enter the password for the user box administrator.



Detail

If "Prohibited Functions When Authentication Error" in Administrator mode is set to "Mode 2" and an incorrect password is entered the specified number of times, it is no longer possible to log in to Administrator mode. For details on the authentication operation settings, refer to the User manual – Copy Operations.

The password input dialog box varies depending on the specified machine settings.

13.3 Overview of User mode

By logging on to PageScope Web Connection in User mode, the following functions can be specified.

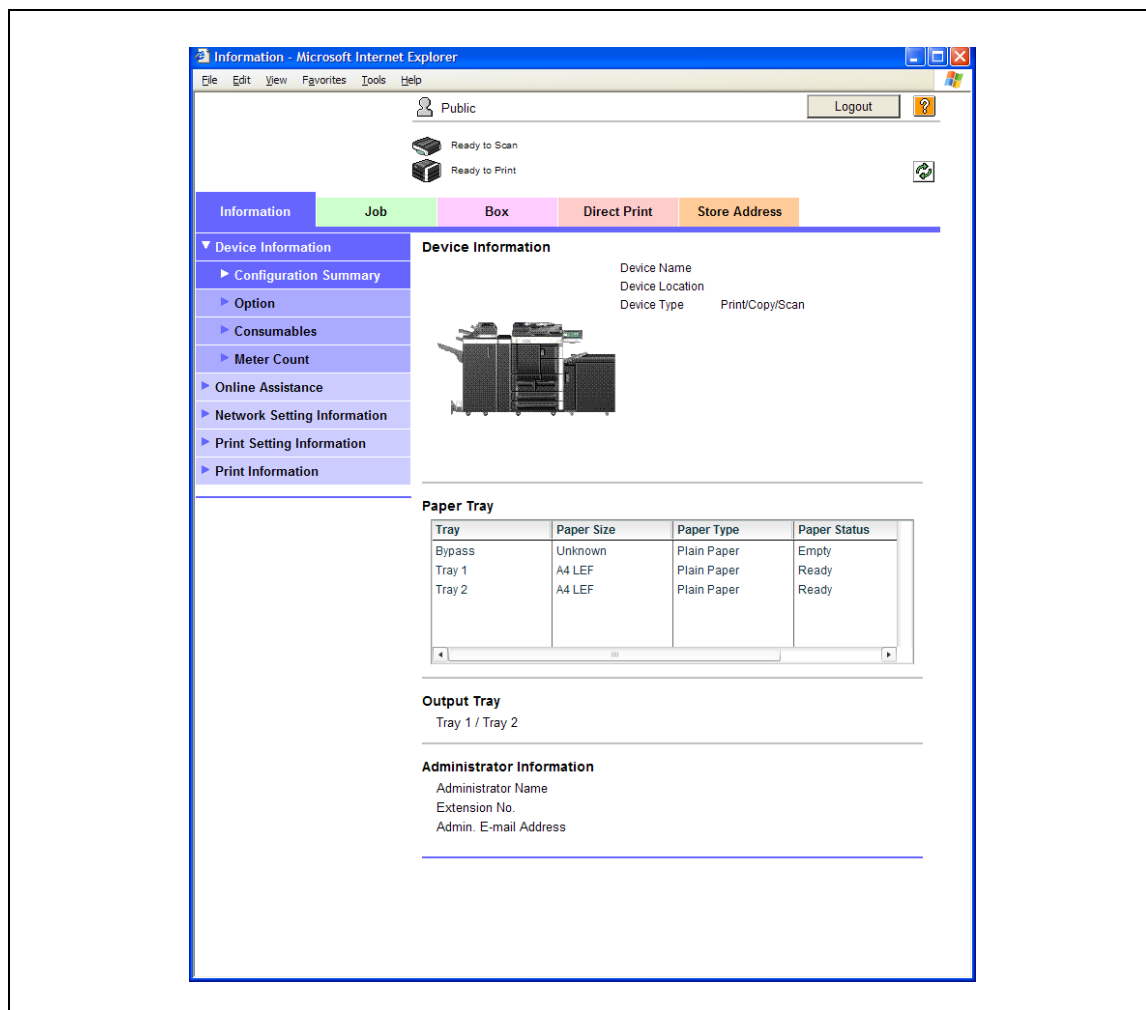


Note

For other details on the User mode, refer to the PageScope Web Connection Help on the PageScope Utilities DVD.

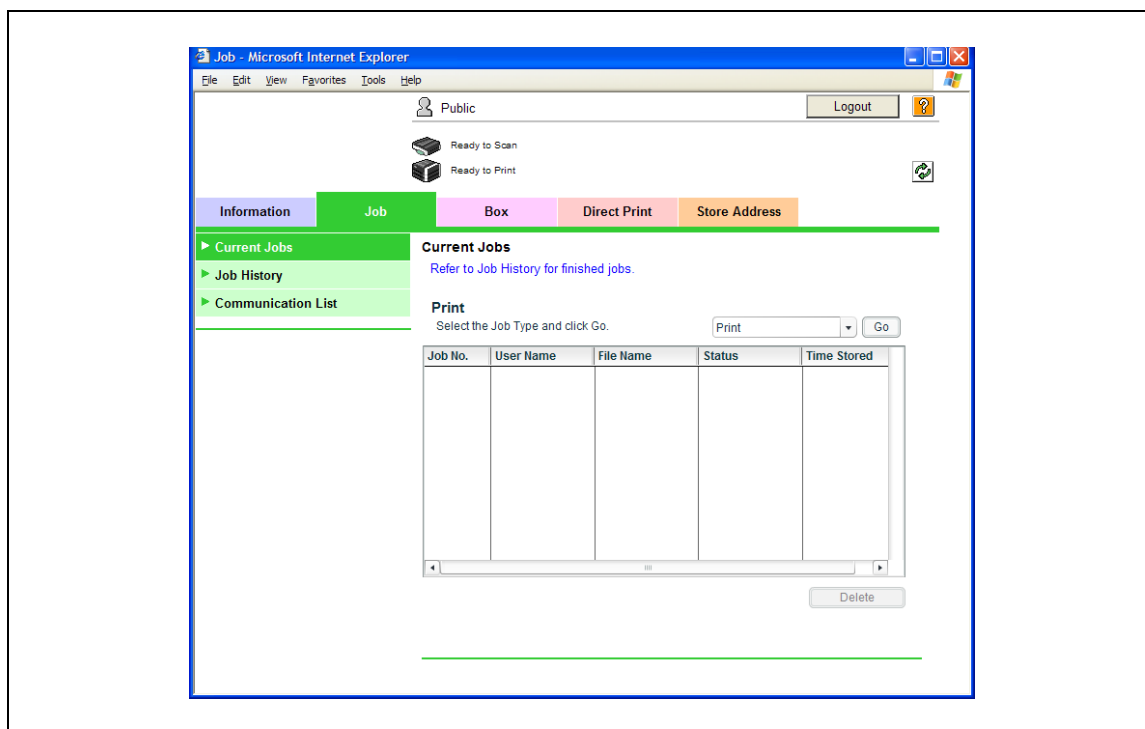
13.3.1 Information

This is the first page that appears when you access PageScope Web Connection.



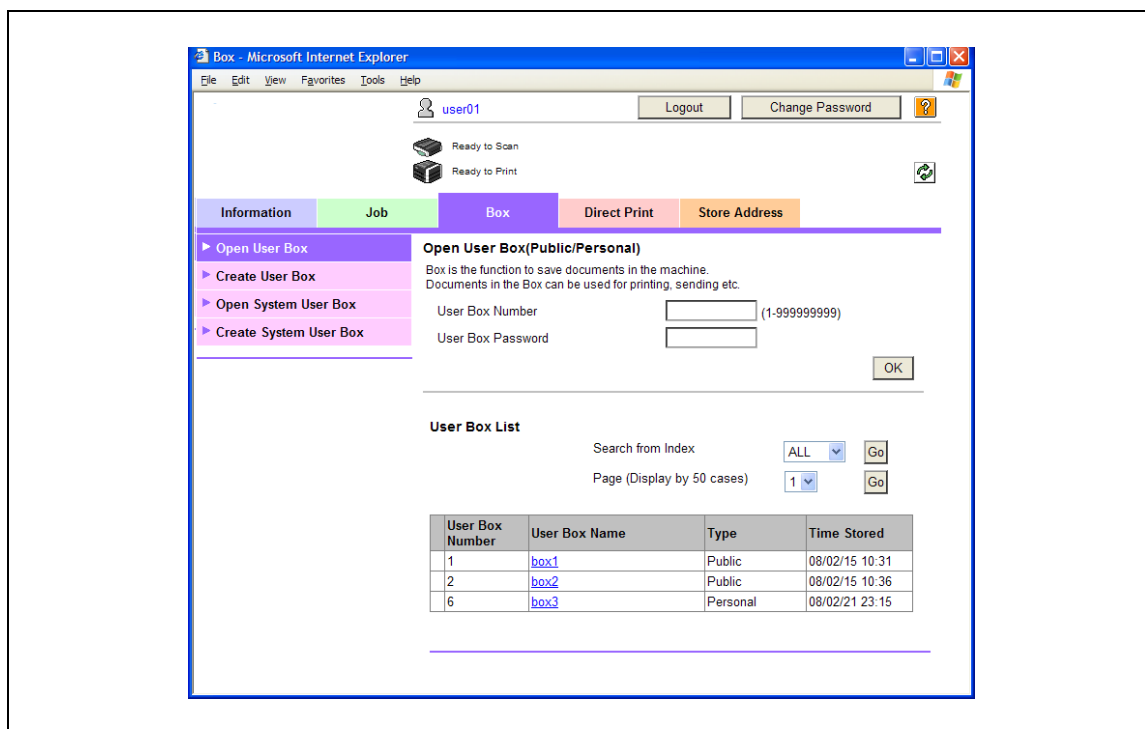
Item	Description
Device Information	The configuration of the machine, options, consumables and meter count information can be checked.
Online Assistance	Support information for the machine can be displayed.
Change User Password	The password for the user who is logged on can be changed.
Function Permission Information	Information on operations permitted by users and accounts can be displayed.
Network Setting Information	Network settings on the machine can be displayed.
Print Setting Information	Settings for the printer controller of the machine can be displayed.
Print Information	Font and settings information can be printed.

13.3.2 Job



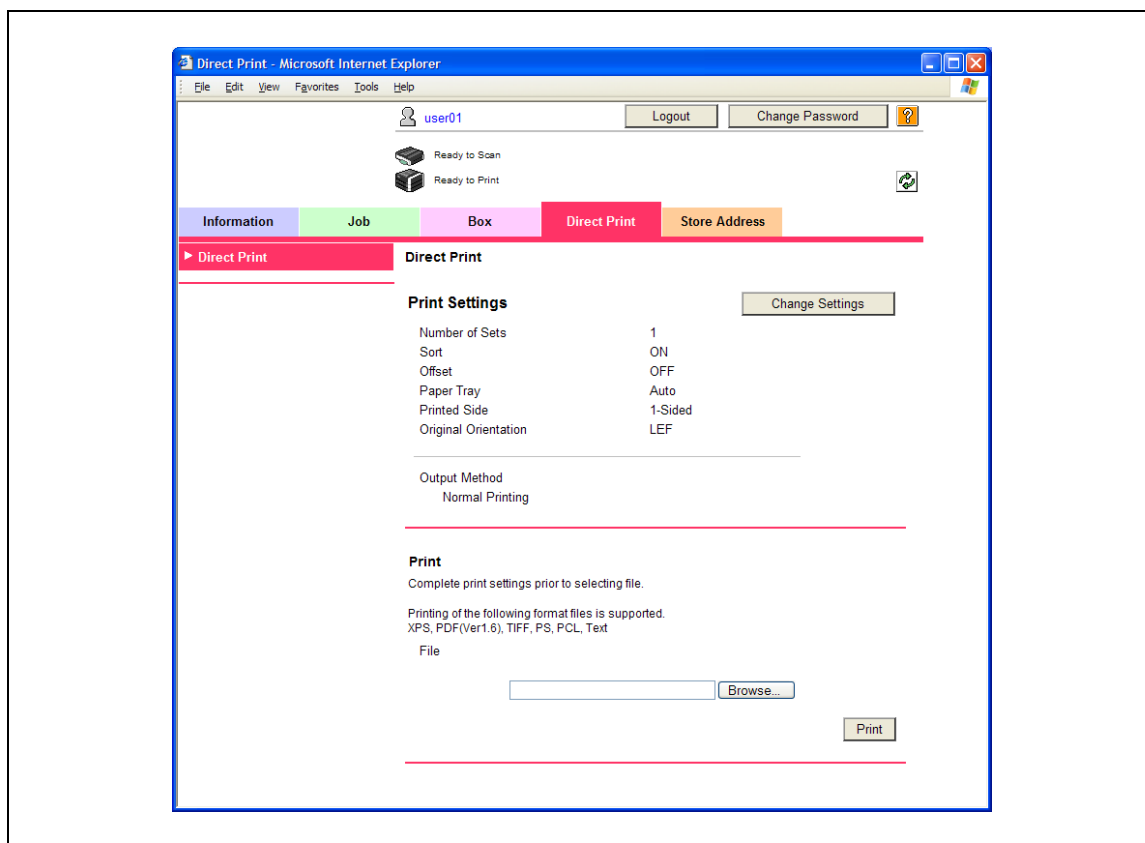
Item	Description
Current Jobs	On this list, you can check currently running jobs and those in a queue.
Job History	On this list, you can check completed jobs.
Communication List	On this list, you can check received or transmitted jobs.

13.3.3 Box



Item	Description
Open User Box	A currently created public, personal or group user box can be opened to change user box settings.
Create User Box	New user boxes can be created.
Open System User Box	Displays if the optional fax kit is installed. System user boxes (Bulletin Board User Box, Polling TX User Box, Memory RX User Box, Relay User Box) can be opened to work on a saved document or to change user box settings.
Create System User Box	Displays if the optional fax kit is installed. New bulletin board user boxes and relay user boxes can be created.

13.3.4 Direct Print



Item	Description
Direct Print	Files that are saved on a computer can be specified and printed on this machine. The display is made when the image controller is installed optionally.



...

Note

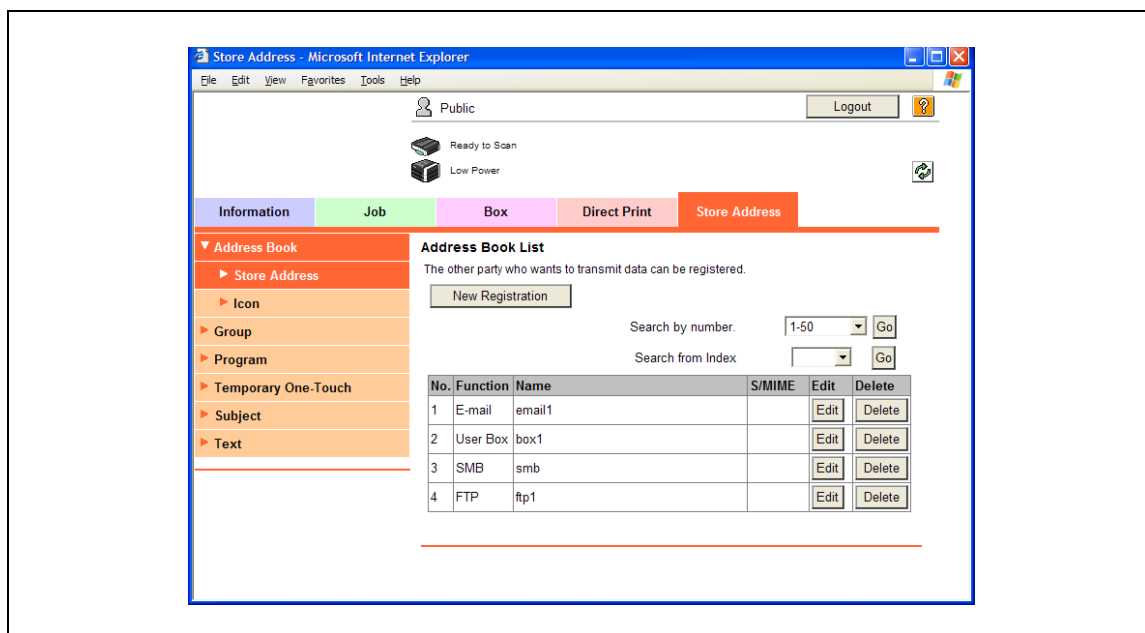
The following files can be printed by Direct Print.

When the hard disk is installed: XPS, PDF, TIFF, PS, PCL, Text

When the hard disk is not installed: PS, PCL, Text

For text files, only 1-byte characters are supported.

13.3.5 Store Address



Item	Description
Address Book	The list of address book registered to the machine can be displayed, and destinations can be registered or their settings can be changed.
Group	The list of group destinations registered to the machine can be displayed, and destinations can be registered or their settings can be changed.
Program	The list of program destinations registered to the machine can be displayed, and destinations can be registered or their settings can be changed.
Temporary One-Touch	The list of temporary program destinations registered to the machine can be displayed, and destinations can be registered or their settings can be changed.
Subject	A maximum of 10 subjects for sending E-Mail messages can be registered.
Text	A maximum of 10 texts for sending E-Mail messages can be registered.



Note

These may not appear depending on the Administrator mode settings.

13.4 Overview of Administrator mode

By logging on to PageScope Web Connection in Administrator mode, the following functions can be specified.



Note

For details on the Administrator mode, refer to the User manual – Network Administrator.

13.4.1 Maintenance

Maintenance - Microsoft Internet Explorer

Administrator Logout

Ready to Scan

In Menu (Admin Mode)

Maintenance Security Box Print Setting Store Address Network

Meter Count

ROM Version

Import/Export

Status Notification Setting

Total Counter Notification Setting

Machine Setting

Online Assistance

Date/Time Setting

Timer Setting

Reset

External Memory Function Settings

Header/Footer Registration

License Settings

Total Counter

Total	460
Total Duplex	17
# of Originals	423
# of Used Paper	404

Copy Counter

Total	406
Large Size	19

Print Counter

Total	45
Large Size	0

Scan / Fax Counter

	Print	Scans
Total	9	56
Large Size	0	0
Fax TX	0	
Fax RX	0	

Paper Size / Type Counter

Paper Size	Paper Type	Count
11" x 17"	Not Specified	0
8 1/2" x 14"	Not Specified	0
8 1/2" x 11"	Not Specified	0
5 1/2" x 8 1/2"	Not Specified	0
A3	Not Specified	0
B4	Not Specified	0
B5	Not Specified	0
A4	Not Specified	0
A5	Not Specified	0
Unknown	Not Specified	0

Item	Description
Meter Count	Counters managed by the machine can be displayed.
ROM Version	The ROM version can be displayed.
Import/Export	Machine settings can be saved as a file (exported), or settings can be written to the machine (imported).
Status Notification Setting	Specify settings for sending a notification if a machine error occurred. Settings can be specified for the destination of error notifications and the occasions when notifications are sent.
Total Counter Notification Setting	Specify the settings for sending notifications of the total counter by E-Mail and the E-Mail address where notifications are sent.
Machine Setting	The registered machine information can be changed.
Online Assistance	Specify the support information for the machine. To display this information, click the Information tab in User mode, and then click "Online Assistance" in the menu.
Date/Time Settings	Specify the date and time that are displayed on the machine.
Timer Settings	Specify the power save and weekly timer functions.
Reset	Resets the network settings or network controller settings or erases all destinations.
External Memory Function Settings	Specifies the external memory settings for saving or printing documents.
Header/Footer Registration	The list of headers/footers can be displayed, and they can be registered or edited.
License Settings	A request code is issued. A license code can be obtained to enable the function.

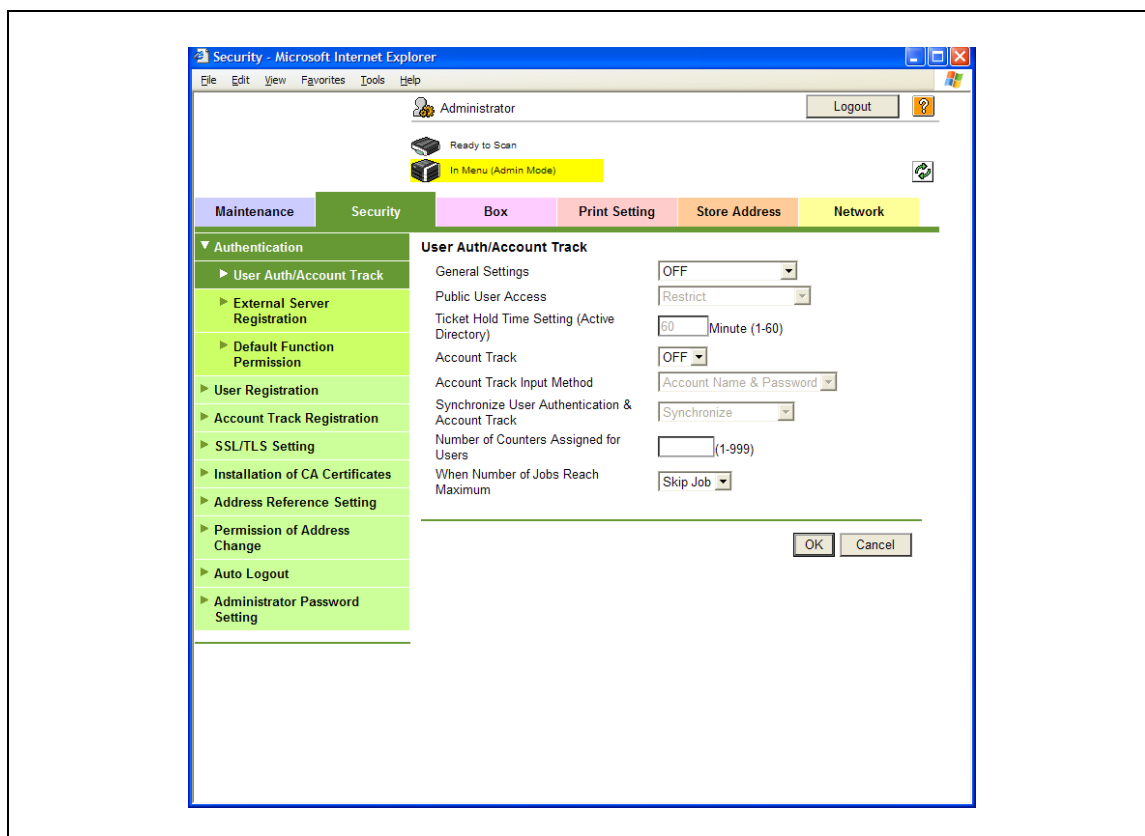


Note

In order to print a document text from an external memory, it is necessary to equip with the optional hard disk.

To use the license settings function, an optional hard disk must be installed in this machine.

13.4.2 Security



Item	Description
Authentication	Specify user authentication and account track settings for the machine. To perform authentication, an external server and default function permission can also be specified.
User Registration	If user authentication settings are specified, users can be registered and their settings can be changed.
Account Track Registration	If account track is specified, accounts can be registered and their settings can be changed.
SSL/TLS Setting	Specify the settings for SSL/TLS. With SSL/TLS enabled, communication between this machine and a client computer is encrypted to prevent passwords and messages being leaked.
Installation of CA Certificates	Install the CA certificate.
Address Reference Setting	When permitting address reference, specify the reference group setting and public user reference setting.
Permission of Address Change	Select whether or not to allow users to register destinations.
Auto Logout	Specify the length of time until Administrator mode or User mode is automatically logged off.
Administrator Password Setting	Specify the password for logging on to PageScope Web Connection in the Administrator mode.

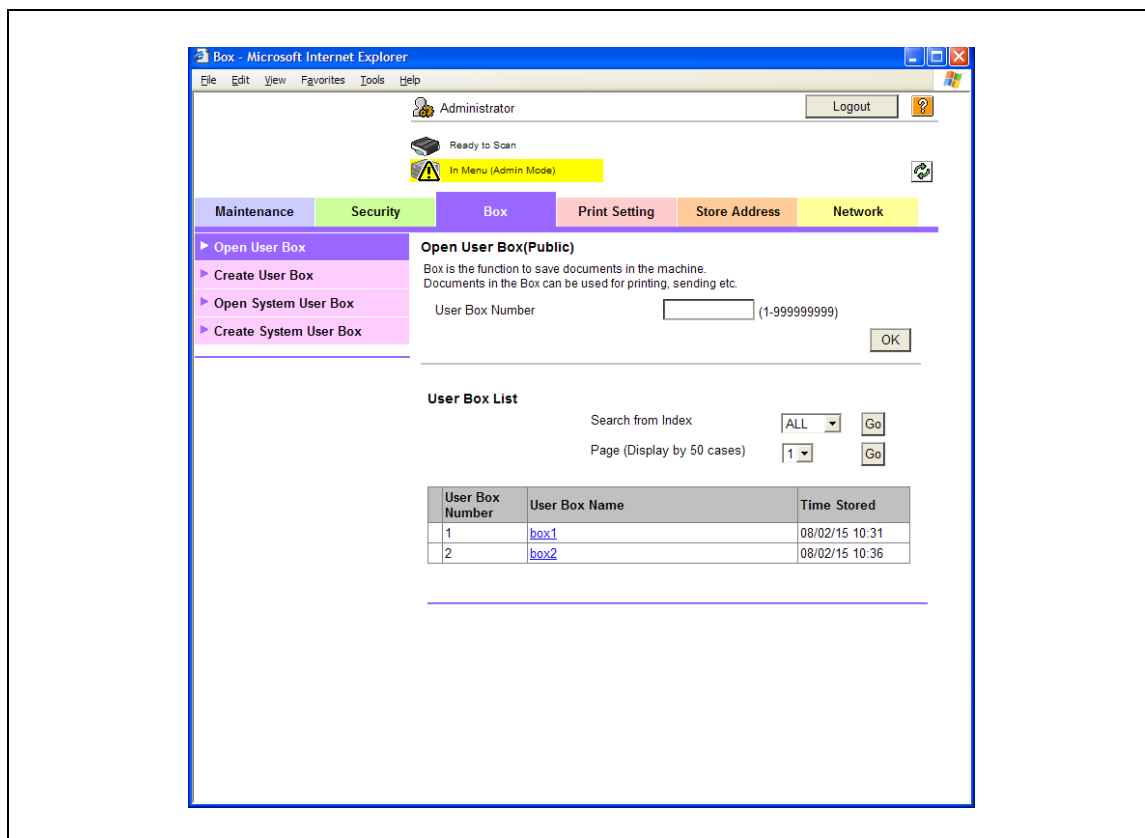


Note

"Administrator Password Settings" does not appear in the following cases:
 No SSL certificate is installed.
 The Enhanced Security Mode is enabled.

13.4.3 Box

When logged on in Administrator mode, user boxes can be used without typing in the password.



Item	Description
Open User Box	A currently created public, personal or group user box can be opened to work on a saved document or to change user box settings.
Create User Box	New user boxes can be created.
Open System User Box	System user boxes (Bulletin Board User Box, Relay User Box, Annotation User Box) can be opened to work on a saved document or to change user box settings.
Create System User Box	New annotation user boxes bulletin board user boxes, relay user boxes and annotation user boxes can be created.

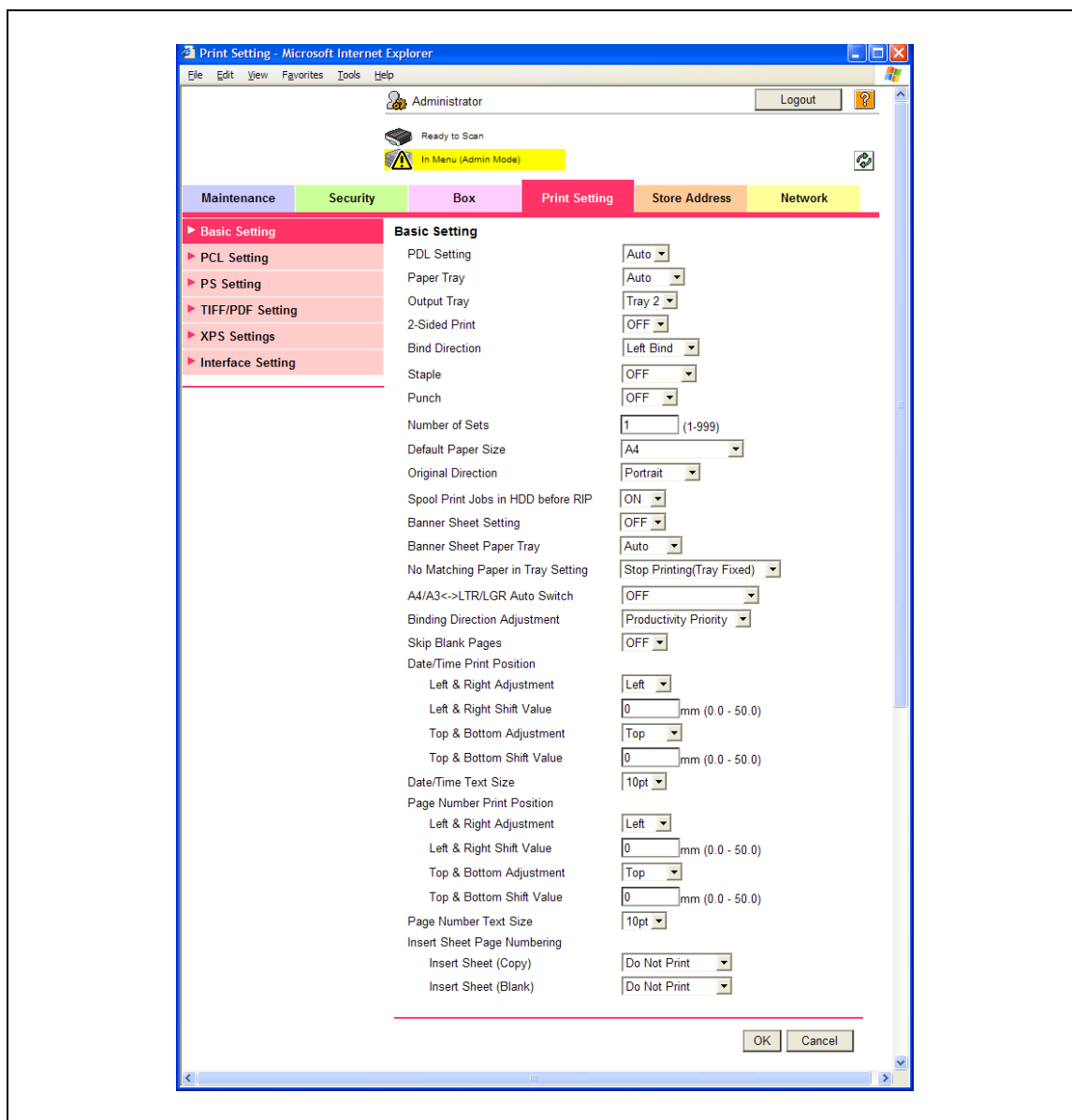


Note

The Bulletin Board User Box and Relay User Box can be operated when the optional fax kit is installed.

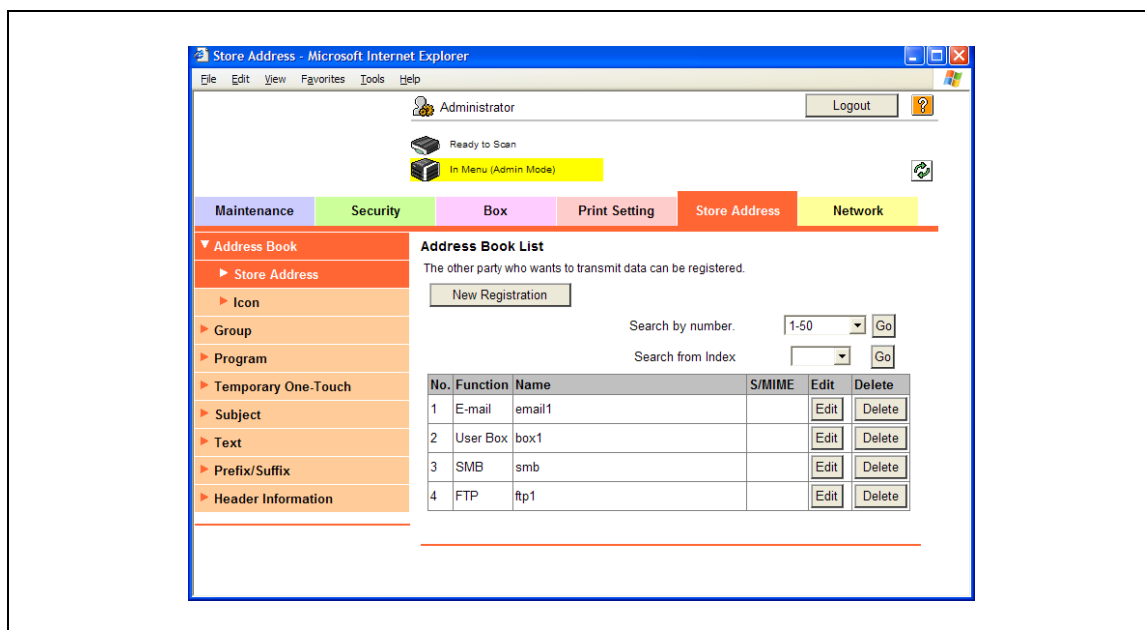
The Annotation User Box can be operated when the optional hard disk is installed.

13.4.4 Print Setting



Item	Description
Basic Setting	The default printer setting can be specified.
PCL Setting	The default setting for PCL mode can be specified.
PS Setting	The default setting for PS mode can be specified.
TIFF/PDF Setting	The settings for the TIFF/PDF direct printing can be performed.
XPS Settings	The XPS print settings can be specified. It is displayed when having equipped with the optional hard disk.
Interface Setting	The interface timeout can be specified.

13.4.5 Store Address



Item	Description
Address Book	The list of address book registered to the machine can be displayed, and destinations can be registered or their settings can be changed.
Group	The list of group destinations registered to the machine can be displayed, and destinations can be registered or their settings can be changed.
Program	The list of program destinations registered to the machine can be displayed, and destinations can be registered or their settings can be changed.
Temporary One-Touch	The list of temporary program destinations registered to the machine can be displayed, and destinations can be registered or their settings can be changed.
Subject	A maximum of 10 subjects for sending E-Mail messages can be registered.
Text	A maximum of 10 texts for sending E-Mail messages can be registered.
Application Registration	When using an application, such as RightFax Server, registered with an external server, register the application information and server address. By registering the application and server, a connection to the server of the selected application can automatically be established for use.
Prefix/Suffix	Prefixes and suffixes can be registered to be added as destination information when sending E-Mail messages.
Header Information	Register sender information for transmissions.



Note

"Application Registration" does not appear when the optional fax kit is installed.

13.4.6 Network

Network - Microsoft Internet Explorer

Administrator Logout ?

Ready to Scan

In Menu (Admin Mode)

Maintenance Security Box Print Setting Store Address Network

▼ TCP/IP Setting

► TCP/IP Setting

► IP Filtering

► IPsec

► E-mail Setting

► LDAP Setting

► IPP Setting

► FTP Setting

► SNMP Setting

► SMB Setting

► Web Service Settings

► Bonjour Setting

► NetWare Setting

► AppleTalk Setting

► Network Fax Setting

► WebDAV Settings

► OpenAPI Setting

► TCP Socket Setting

► SSDP Setting

► IEEE802.1X Authentication Setting

TCP/IP Setting

* is reflected after reset.

TCP/IP* ON

(Turn the main switch OFF, and then ON, when changing settings.)

Network Speed Auto

IP Address Setting Method* Manual Setting

☐ DHCP*

☐ BootP*

☒ ARP/PING*

☒ AutoIP*

IP Address 10.11.32.53

Subnet Mask 255.255.240.0

Default Gateway 10.11.32.1

IPv6 ON

Auto IPv6 Setting* ON

Link-Local Address fe80::250:aaff:fe27:30

Global Address

Prefix Length

Gateway Address

RAW Port Number

☒ Port 1 9100 (1-65535)

☒ Port 2 9112 (1-65535)

☒ Port 3 9113 (1-65535)

☒ Port 4 9114 (1-65535)

☒ Port 5 9115 (1-65535)

☒ Port 6 9116 (1-65535)

Dynamic DNS Setting Disable

Host Name MFP270030

DNS Domain Name Setting

DNS Domain Auto Obtain Enable

DNS Default Domain Name EDDTRG.local

DNS Search Domain Name1

DNS Search Domain Name2

DNS Search Domain Name3

DNS Server Setting

DNS Server Auto Obtain Enable

Primary DNS Server 10.0.16.30

Secondary DNS Server1 10.0.16.31

Secondary DNS Server2 0.0.0.0

SLP Setting

SLP Enable

LPD Setting

LPD Enable

OK Cancel

Item	Description
TCP/IP Setting	Specify the TCP/IP settings to connect the machine to the network.
E-Mail Setting	Specify the E-Mail TX/RX setting and I-Fax extended functions.
LDAP Setting	Enables server registration when using an LDAP server.
IPP Setting	Specify the settings for IPP printing.
FTP Setting	Specify the settings to use this machine as an FTP client or server.
SNMP Setting	Specify the SNMP settings.
SMB Setting	Specify the settings for the SMB client, WINS, and SMB print.
Web Service Settings	Specify the settings for scan and print via the Web service.
Bonjour Setting	Specify the Bonjour settings.
NetWare Setting	Specify the NetWare settings.
AppleTalk Setting	Specify the AppleTalk settings.
Network Fax Setting	Specify the settings for direct SMTP transmission and direct SMTP reception.
WebDAV Settings	Specify the settings about WebDAV client
Open API Setting	Specify OpenAPI settings.
TCP Socket Setting	Specify TCP Socket settings used for data transmissions between the computer application and this machine.
SSDP Setting	Make a setting of SSDP.
IEEE802.1X Authentication Setting	Make a setting of the IEEE802.1X authentication.

14 Troubleshooting

14 Troubleshooting

14.1 Cannot print

This chapter describes the troubleshooting procedures for possible malfunctions.

Perform the following troubleshooting procedures if this machine does not print after specifying a print job.

Symptom	Cause	Remedy
A message "No printers are connected." or "Print error" appears.	The printer driver selected for printing may not be compatible with the image controller.	Check the printer name selected.
	The network cable or USB cable may be disconnected.	Check that the cable is connected properly.
	An error may be occurring on the machine.	Check the control panel of the machine.
	Available memory space may be insufficient.	Perform a test print to check whether printing is possible.
A postscript error appears.	Available computer memory space may be insufficient.	Perform a test print to check whether printing is possible.
	There may be an error in the application software settings.	Refer to the user's manual of the application software to check the settings.
	The file printing settings may be incorrect.	Change the settings and try to print again.
The machine does not start printing although the print job was completed on the computer.	The printer driver selected for printing may not be compatible with the image controller.	Check the printer name selected.
	The network cable or USB cable may be disconnected.	Check that the cable is connected properly.
	An error may be occurring on the machine.	Check the control panel of the machine.
	A print job may be queued in this machine, delaying printing.	Check the job order on the Active Jobs list in the control panel of the machine.
	When executing the print job, "Save in User Box" may have been specified.	Check if the print job is held in the "User Box" in the control panel of the machine.
	When executing the print job, "Secure Print" may have been specified.	Check if the print job is held on the "Secure Print User Box" in the control panel of the machine.
	If the Account Track function is operating, an unregistered department name (or password) may have been entered.	Enter the correct department name (or password).
	If the authentication settings have been applied, an unregistered user name (or password) may have been entered.	Enter the correct user name (or password).
	Different encryption passphrases may be specified for the printer driver and the machine.	Specify the same encryption passphrase for the machine and the printer driver.
	Available computer memory space may be insufficient.	Perform a test print to check whether printing is possible.
	Network connection to the image controller is not established (if network connection is specified).	Consult with the network administrator.
	The enhanced security mode may be enabled on the machine.	Specify the authentication settings in the enhanced security mode. For details, contact the administrator of this machine.

Symptom	Cause	Remedy
Does not print in the Secure Print mode.	On the main system, the password rules may be enabled.	Specify a password according to the password rules.
	Different encryption passphrases may be specified for the printer driver and the machine.	Specify the same encryption passphrase for the machine and the printer driver.
Jobs in Save in User Box have disappeared.	The main system may be set to delete the jobs in the user box.	Check the settings for the user box on the main system. For details, refer to the User manual – Box Operations.
Cannot print in the User Authentication (Account Track) mode	The ID or password is wrong.	Enter the correct ID and password.
	"Authentication" is not selected in the printer driver.	Select "Authentication" in the printer driver.
	Different encryption passphrases may be specified for the printer driver and the machine.	Specify the same encryption passphrase for the machine and the printer driver.
	Printing with the current ID may not be permitted.	Check with the administrator to see if the ID is valid.
Cannot print even though "Public User" is selected for user authentication	Printing as a public user may not be permitted on the main system.	Check with the administrator to see if printing as a public user is permitted.

If the problem persists after all of these procedures have been performed, read the User manual – Copy Operations.

14.2 Unable to specify desired settings or unable to print as specified

Perform these troubleshooting procedures if you cannot specify the desired settings in the printer driver, or if the print results do not represent the settings that have been specified.



Note

Some of the printer driver functions cannot be combined with other functions.

14.2.1 Printer driver settings have no effect

Symptom	Cause	Remedy
A printer driver setting cannot be selected.	Some functions cannot be combined.	Do not try to select settings that are not available.
A "Conflicts" message with "Unable to Select" or "Function Canceled" appears.	An incorrect combination of functions has been specified.	Check the settings and specify the functions correctly.
Printing is not performed as specified.	Incorrect settings may be specified.	Check each setting in the printer driver.
	Function settings can be combined in the printer driver, but not on this machine.	
	The paper size, orientation, and other settings specified in the application may have priority over those specified in the printer driver.	Specify the correct settings in the application.
The watermark cannot be printed.	The watermark may not be correctly set.	Check the watermark settings.
	The watermark density may be set to a level that is too low.	Check the density settings.
	Watermarks cannot be printed in graphics applications in some cases.	No watermark can be printed if that is the case.
The staple function cannot be specified.	Stapling is not possible if "Paper Type" is set to "Thick" or "Transparency".	Check each setting in the printer driver.
	The Staple function requires optional finisher.	Install the required optional finisher and enable it using the printer driver.
Stapling cannot be performed.	When printing a large number of pages, stapling cannot be performed.	Change the number of pages to be printed.
	Stapling is not possible if the document contains pages of different sizes.	Check the document.
The stapling position is not as expected.	The orientation setting is not correct.	Check the stapling position in the printer driver setup dialog box.
The Punch function cannot be specified.	Hole punching cannot be specified if "Booklet", "Transparency", "Thick2", "Thick3", or "Envelope" is selected.	Check each setting in the printer driver.
	Optional finisher and a punch kit or Z folding unit are required.	Install the required optional finisher and enable it using the printer driver.
The pages are not punched.	Printed pages may be fed out without being punched if the paper is loaded into the paper source with an incorrect orientation.	Check the orientation setting.
The hole punch position is not as expected.	The orientation setting is not correct.	Check the stapling position in the printer driver setup dialog box, and then print.
The overlay is not printed properly.	Available computer memory space may be insufficient.	Simplify the overlay to reduce the data size.
Images are not printed properly.	Available computer memory space may be insufficient.	Simplify the images to reduce the data size.

Symptom	Cause	Remedy
Paper is not fed from the specified paper source.	Paper will not be fed from the specified paper source if that paper source is loaded with paper of a different size or orientation.	Load the paper source with paper of the appropriate size and orientation.
The field for user authentication (account track) setting is grayed out, disabling setting.	In the printer driver, the User Authentication (Account Track) function may be disabled.	In "Configure", specify a setting for user authentication (account track).

14.2.2 Other

Symptom	Cause	Remedy
Printer driver installation fails.	It has already been installed as a Web Service-supporting printer in Windows Vista/7/Server 2008.	In Windows Vista/7/Server 2008, printer driver installation is deemed as completed even if it is not completed if the installation has been performed using the Web Service print. Uninstall the printer in the Network window, and then reinstall it.
The print job remains though the printing is completed.	"Network discovery" may be disabled in Windows Vista/7/Server 2008.	To use the Web Service print in Windows Vista/7/Server 2008, enable "Network discovery" in "Network and Sharing Center" on the computer.

14.2.3 Error message

Message	Cause and remedy
Cannot connect to the network.	A connection to the network could not be established. Check if the network cable is correctly connected. In addition, check that the "Network Settings" parameters in Administrator mode have been correctly specified.

15

Appendix



Appendix

15 Appendix

15.1 Product specifications

Item		Specifications
Model		Built-in printer controller
Power requirements		Common with the main body
RAM		Common with the main body
Hard disk		Common with the main body
Interface		Ethernet port (1,000Base-T/100Base-TX/10Base-T) USB 2.0 (optional)
Frame type		Ethernet 802.2 Ethernet 802.3 Ethernet II Ethernet SNAP
Supported protocols		TCP/IP IPX/SPX NetBEUI AppleTalk (EtherTalk)
Printer language		PCL5e Emulation PCL XL ver 3.0 Emulation PostScript 3 Emulation (3016) XPS ver.1.0
Operating environment conditions		Temperature 50 to 86 °F (10 to 30 °C) Humidity 10% to 80% RH
Resolution	Data processing	600 × 600 dpi (Print and Fax functions) 400 × 400 dpi (Fax function) 200 × 200 dpi (Fax function)
	Printing	2400 dpi equivalent × 600 dpi
Supported paper sizes		Maximum: Width 314 mm, Length 458 mm Minimum: Width 100 mm, Length 140 mm
Printer fonts		<PCL> Latin 80 Fonts <Postscript 3 Emulation> Latin 137 Fonts
Compatible computers		IBM PC or compatible, and Mac (PowerPC or Intel Processor)

Item		Specifications
Printer driver	Konica Minolta PCL Driver (PCL driver)	32bit editions: Windows NT Workstation 4.0/Server 4.0 (Service Pack 6 or later) Windows 2000 Professional/Server (Service Pack 3 or later) Windows XP Home/Professional (Service Pack 2 or later) Windows Server 2003 Standard Windows Vista (All versions) Windows Server 2008 (All versions) Windows 7 (All versions)
		64bit editions: Windows XP Professional (Service Pack 2 or later) Windows Server 2003 Windows Vista (All versions) Windows Server 2008 (All versions) Windows Server 2008 R2 (All versions) Windows 7 (All versions)
	Konica Minolta PostScript Driver (PS driver)	32bit editions: Windows 2000 Professional/Server (Service Pack 3 or later) Windows XP Home/Professional (Service Pack 2 or later) Windows Server 2003 Standard Windows Vista (All versions) Windows Server 2008 (All versions) Windows 7 (All versions)
		64bit editions: Windows XP Professional (Service Pack 2 or later) Windows Server 2003 Windows Vista (All versions) Windows Server 2008 (All versions) Windows Server 2008 R2 (All versions) Windows 7 (All versions)
	KONICA MINOLTA XPS Driver (XPS driver)	32bit editions: Windows Vista (All versions) Windows Server 2008 (All versions) Windows 7 (All versions)
		64bit editions: Windows Vista (All versions) Windows Server 2008 (All versions) Windows Server 2008 R2 (All versions) Windows 7 (All versions)
	PostScript PPD driver (PS-PPD)	Mac OS 9.2 or later Mac OS X 10.2, Mac OS X 10.3, Mac OS X 10.4, Mac OS X 10.5 or Mac OS X 10.6
Fax driver		32bit editions: Windows NT Workstation 4.0/Server 4.0 (Service Pack 6 or later) Windows 2000 Professional/Server (Service Pack 3 or later) Windows XP Home/Professional (Service Pack 2 or later) Windows Server 2003 Standard Windows Vista (All versions) Windows Server 2008 (All versions) Windows 7 (All versions)
		64bit editions: Windows XP Professional (Service Pack 2 or later) Windows Server 2003 Windows Vista (All versions) Windows Server 2008 (All versions) Windows Server 2008 R2 (All versions) Windows 7 (All versions)

Item	Specifications
Utility	PageScope Web Connection Compatible Web browsers: Microsoft Internet Explorer Ver. 6 or later recommended (JavaScript and Cookies enabled) Microsoft XML parser MSXML3.X must be installed when Internet Explorer Ver. 5.5 is being used. Netscape Navigator Ver. 7.02 or later (JavaScript and Cookies enabled) Mozilla Firefox Ver. 1.0 or later (JavaScript and Cookies enabled) Adobe® Flash® (Plug-in Ver. 7.0 or later required if "Flash" is selected as the display format)
Operating environment for MetaFrame	The operation of this driver has been confirmed only in the following environments. Server OS: Windows 2000 Advanced server/ Windows 2003 Enterprise Server MetaFrame: Citrix® MetaFrame® Presentation Server 3.0 Citrix® MetaFrame® Presentation Server 4.0 Client OS: Windows 2000/Windows XP ICAClient: ICA32bit * For operating in an environment other than those described, contact your service representative.

15.2 Configuration page

KONICA MINOLTA 601

Configuration Page

Print Operation Menu Map

Basic Setting

Default Paper Size = A4
 Paper Tray = Auto
 Output Tray = Elevate Tray
 Binding Position = Left Binding
 Double-Sided = Off
 Staple = Off
 Hole-Punch = Off
 Orientation = Portrait
 # of Sets = 1
 No Matching Paper in Tray Setting = Stop Printing (Tray Fixed)
 Spool Setting = On
 Convert = Off
 PDL Setting = Auto
 Banner Setting = Disable
 Banner Paper Tray = Auto

PCL Setting

Font Source = 1
 Font Number = 0
 Font Point = 12.00
 Font Pitch = 10.00
 Symbol Set = PC-8, Code Page 437
 Line/Page = 64 [Line / Page]
 CR/LF Mapping = Off

PS Setting

Print Reports = Disable
 Text RGB Source = 4
 Text Destination Profile = Auto
 Image RGB Source = 4
 Image Destination Profile = Auto
 Graphics RGB Source = 4
 Graphics Destination Profile = Auto
 Simulation Profile = None

XPS Settings

Verify XPS Digital Signature = Disable

Test Print

Configuration
 PCL Font List
 PS Font List
 Demo Page

I/F Setting

Network Rx Timeout = 60 [sec.]
 USB Timeout = 60 [sec.]
 Print XPS Errors = Enable

Installed

Printer HDD = Installed
 Printer Memory = 1024 [MByte]

Printer Information

Installed Tray

Tray 1 = A4
 Tray 2 = A4
 Tray 3 = A4
 Tray 4 = A3
 LCT = None

Option

Duplex Unit = Installed
 Finisher = Available
 Punch Unit = Available
 Fold Unit = Available
 Fax Unit = Available
 Mailbin Unit = Not Available

Firmware Version

Printer Controller = A0PN0Y0-3000-G00-14

Network

MAC Address

MAC Address = 00:50:AA:28:00:08

TCP/IP

TCP/IP = Enable
 IP Address = 10.11.32.98
 Subnet Mask = 255.255.240.0
 Default Gateway = 10.11.32.1
 RAW Port 0 = 9100
 RAW Port 1 = 9112
 RAW Port 2 = 9113
 RAW Port 3 = 9114
 RAW Port 4 = 9115
 RAW Port 5 = 9116

Netware

Netware = Disable

Appletalk

Appletalk = Enable

SMB

SMB = Enable

15.3 Font list

15.3.1 PCL Font List

KONICA MINOLTA 601

PCL Font List

P.1

Resident Fonts

Font	Pitch/Point	Escape Sequence	Font #	Font ID
Courier	Scalable	<esc>(01X<esc>(s0p10h0s0b4099T	00000	
CG Times	Scalable	<esc>(01X<esc>(slp12v0s0b4101T	00001	
CG Times Bold	Scalable	<esc>(01X<esc>(slp12v0s3b4101T	00002	
<i>CG Times Italic</i>	Scalable	<esc>(01X<esc>(slp12v1s0b4101T	00003	
<i>CG Times Bold Italic</i>	Scalable	<esc>(01X<esc>(slp12v1s3b4101T	00004	
CG Omega	Scalable	<esc>(01X<esc>(slp12v0s0b4113T	00005	
CG Omega Bold	Scalable	<esc>(01X<esc>(slp12v0s3b4113T	00006	
<i>CG Omega Italic</i>	Scalable	<esc>(01X<esc>(slp12v1s0b4113T	00007	
<i>CG Omega Bold Italic</i>	Scalable	<esc>(01X<esc>(slp12v1s3b4113T	00008	
<i>Coronet</i>	Scalable	<esc>(01X<esc>(slp12v1s0b4116T	00009	
Clarendon Condensed	Scalable	<esc>(01X<esc>(slp12v4s3b4140T	00010	
Univers Medium	Scalable	<esc>(01X<esc>(slp12v0s0b4148T	00011	
Univers Bold	Scalable	<esc>(01X<esc>(slp12v0s3b4148T	00012	
<i>Univers Medium Italic</i>	Scalable	<esc>(01X<esc>(slp12v1s0b4148T	00013	
<i>Univers Bold Italic</i>	Scalable	<esc>(01X<esc>(slp12v1s3b4148T	00014	
Univers Condensed Medium	Scalable	<esc>(01X<esc>(slp12v4s0b4148T	00015	
Univers Condensed Bold	Scalable	<esc>(01X<esc>(slp12v4s3b4148T	00016	
<i>Univers Condensed Medium Italic</i>	Scalable	<esc>(01X<esc>(slp12v5s0b4148T	00017	
<i>Univers Condensed Bold Italic</i>	Scalable	<esc>(01X<esc>(slp12v5s3b4148T	00018	
Antique Olive	Scalable	<esc>(01X<esc>(slp12v0s0b4168T	00019	
Antique Olive Bold	Scalable	<esc>(01X<esc>(slp12v0s3b4168T	00020	
<i>Antique Olive Italic</i>	Scalable	<esc>(01X<esc>(slp12v1s0b4168T	00021	
Garamond Antiqua	Scalable	<esc>(01X<esc>(slp12v0s0b4197T	00022	
Garamond Halbfett	Scalable	<esc>(01X<esc>(slp12v0s3b4197T	00023	
<i>Garamond Kursiv</i>	Scalable	<esc>(01X<esc>(slp12v1s0b4197T	00024	

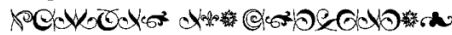
15.3.2 PS Font List

KONICA MINOLTA 601

PS Font List

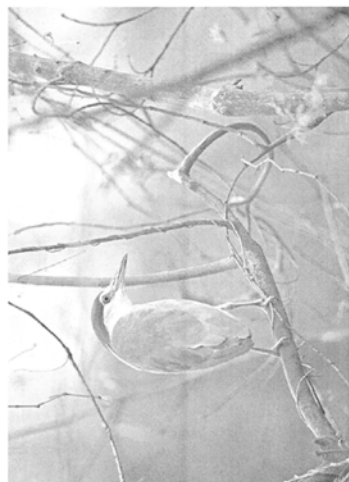
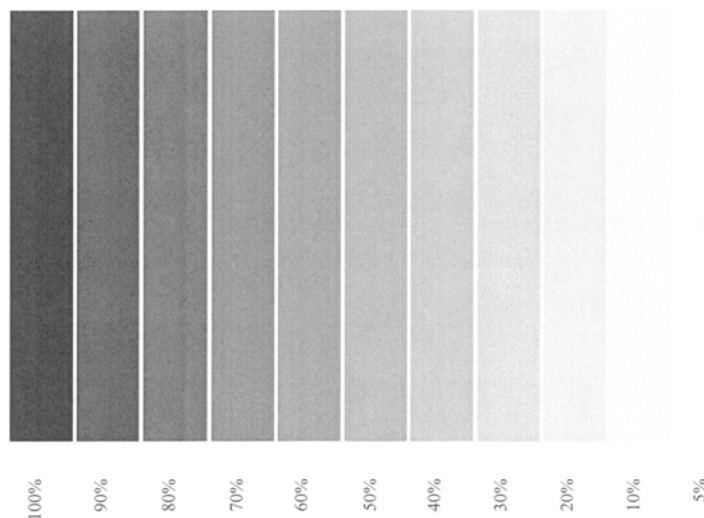
P.3

Resident Fonts

Font		Font #
<i>Helvetica Oblique</i>	Helvetica-Oblique	00060
Helvetica Bold	Helvetica-Bold	00061
<i>Helvetica Bold Oblique</i>	Helvetica-BoldOblique	00062
Helvetica Narrow	Helvetica-Narrow	00063
<i>Helvetica Narrow Oblique</i>	Helvetica-Narrow-Oblique	00064
Helvetica Narrow Bold	Helvetica-Narrow-Bold	00065
<i>Helvetica Narrow Bold Oblique</i>	Helvetica-Narrow-BoldOblique	00066
Helvetica Condensed Medium	Helvetica-Condensed	00067
<i>Helvetica Condensed Oblique</i>	Helvetica-Condensed-Oblique	00068
Helvetica Condensed Bold	Helvetica-Condensed-Bold	00069
<i>Helvetica Condensed Bold Oblique</i>	Helvetica-Condensed-BoldOblique	00070
Hoefler Text Black	HoeflerText-Regular	00071
<i>Hoefler Text Italic</i>	HoeflerText-Italic	00072
Hoefler Text	HoeflerText-Black	00073
<i>Hoefler Text Black Italic</i>	HoeflerText-BlackItalic	00074
	HoeflerText-Ornaments	00075
Joanna MT	JoannaMT	00076
<i>Joanna MT Italic</i>	JoannaMT-Italic	00077
Joanna MT Bold	JoannaMT-Bold	00078
<i>Joanna MT Bold Italic</i>	JoannaMT-BoldItalic	00079
Letter Gothic	LetterGothic	00080
<i>Letter Gothic Slanted</i>	LetterGothic-Slanted	00081
Letter Gothic Bold	LetterGothic-Bold	00082
<i>Letter Gothic Bold Slanted</i>	LetterGothic-BoldSlanted	00083
ITC Lubalin Graph Book	LubalinGraph-Book	00084
<i>ITC Lubalin Graph Book Oblique</i>	LubalinGraph-BookOblique	00085
ITC Lubalin Graph Demi	LubalinGraph-Demi	00086
<i>ITC Lubalin Graph Demi Oblique</i>	LubalinGraph-DemiOblique	00087
<i>Marigold</i>	Marigold	00088
Monaco	Monaco	00089

15.3.3 Demo page

Test Page



The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog .
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog
The quick brown fox jumps over the laz
The quick brown fox jumps over th
The quick brown fox jumps over
The quick brown fox jumps ove
The quick brown fox jump

15.4 PPD driver (for Linux and applications)

15.4.1 PPD driver types

The PPD driver contains the PPD information for Mac OS 9, Linux, and applications.

Driver for Linux: Install for use with Linux

(Contains PPD for Linux and PPD for OpenOffice)

Driver for applications: Install the driver when using applications such as Adobe PageMaker that require the PPD driver.

15.4.2 About the PPD driver for Linux

Operating environment

Supported operating systems: Red Hat Linux 9/SuSE Linux 8.2

Supported PostScript level: 3.0

CUPS: 1.1.23, 1.2.x

To register the PPD driver for Linux

- 1 Copy the PPD file to the CUPS model directory. (/usr/share/cups/model when mainly Linux)
- 2 In CUPS Printing System, click the [Add Printer] button, and then specify PPD to add this machine.



Note

For details on CUPS, click the [Help] button in the CUPS Web management page.

To set up the PPD driver for Linux

Specify the functions by clicking the [Configure Printer] button in CUPS Printing System.

To register the PPD driver for OpenOffice

- 1 In CUPS Printing System, click the [Add Printer] button, and then specify PPD to add this machine.
- 2 Open the OpenOffice Printer Administrator tool.
- 3 Click the [New Printer] button.
- 4 In the Choose a device type dialog box, select "Add a printer", and then click the [Next] button.
- 5 In the Choose a driver dialog box, click the [Import] button.
- 6 Select "KONICA MINOLTA 751/601 PPD", and then click the [OK] button.
- 7 From the "Please Select a Suitable driver." list, select "KONICA MINOLTA 751/601 PPD", and then click the [Next] button.
- 8 In the Choose a command line dialog box, select the printer that was added to CUPS, and then click the [Next] button.
- 9 Click the [Finish] button.

To print with OpenOffice

- 1 From the [File] menu in OpenOffice, select "Print".
- 2 Select "KONICA MINOLTA 751/601 PPD" in "Printer name".
- 3 Click the [Properties] button.
- 4 Select the desired setting from the "Page size" drop-down list, and then click the [OK] button. To specify settings other than the page size, click the [Configure Printer] button in CUPS Printing System.
- 5 To print, click the [OK] button in the OpenOffice print dialog box.

15.4.3 About the PPD driver for applications

PPD registration destination (example: Adobe PageMaker)

- For PageMaker 6.0
Copy the PPD file to RSR\CPPD4, which is under the folder to which PageMaker is installed.
- For PageMaker 6.5/7.0
Copy the PPD file to RSRC\<Language>\PPD4, which is under the folder to which PageMaker is installed.

To print

- 1 Select [File], then [Print].
- 2 From the "Model" box in the print dialog box, select this machine.
- 3 Specify "Paper Setting" or "Features" for the printer.
- 4 To print, click the [Print] button.

15.5 Glossary

Term	Definition
10Base-T/ 10B100Base-TX/ 1000Base-T	A set specifications under the Ethernet standards. Uses cables consisting of pairs of twisted copper wires. The transmission speed of 10Base-T is 10 Mbps, of 100Base-TX is 100 Mbps, and of 1000Base-T is 1000 Mbps.
Adobe® Flash®	Software developed by Adobe Systems Inc. (formerly developed by Macromedia, Inc.), and used to create data combining vector-graphic animation and sound, and the format of this data file. The bidirectional content can be manipulated using a keyboard and a mouse. The files can be kept relatively compact, and they can be accessed with the Web browser plug-in.
AppleTalk	A generic name for the protocol suite developed by Apple Computer for computer networking.
bit	Abbreviation for Binary Digit. The smallest unit of information (data quantity) on a computer or printer. Displays data using 0 or 1.
BMP	Abbreviation for Bitmap. A file format for saving image data which uses the .bmp extension. Commonly used on Windows platforms. You can specify the color depth from monochrome (2 values) to full color (16,777,216 colors). Images are not usually compressed when saved.
Bonjour	Mac 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 for Bootstrap Protocol. A protocol in which a client computer on a TCP/IP network automatically specifies the network settings from the server. Currently, DHCP, which is an advanced protocol based on BOOTP, is mainly used.
Brightness	Brightness of a display screen
Byte	Unit of information (data quantity) on a computer or printer. Configured as 1 byte equals 8 bits.
Client	A computer that uses the services provided by a server through a network.
Default gateway	A device, such as a computer or router, used as a gateway to access computers not on the same LAN.
DHCP	Abbreviation for Dynamic Host Configuration Protocol. A protocol in which a client computer on a TCP/IP network automatically specifies the network settings from the server. With collective management of the IP address for DHCP clients on the DHCP server, you can avoid duplication of an address and you can build a network easily.
DNS	Abbreviation for Domain Name System. A system that acquires the supported IP addresses from host names in a network environment. DNS allows the user to access other computers over a network by specifying host names, instead of difficult to memorize and understand IP addresses.
DPI (dpi)	Abbreviation for Dots Per Inch. A resolution unit used by printers and scanners. Indicates how many dots per inch are represented in an image. The higher the value, the higher the resolution.
Driver	Software that works as a bridge between a computer and a peripheral device.
Ethernet	LAN transmission line standard
Frame type	Type of communication format used in a NetWare environment. Communication is not possible if the same frame type is not used.
FTP	Abbreviation for File Transfer Protocol. A protocol for transferring files over the Internet or an intranet on the TCP/IP network.
Gateway	Hardware and software used as the point where a network is connected to a network. A gateway also changes data formats, addresses, and protocols according to the connected network.
Gray Scale	Monochrome image expressive form using the gradation information from black to white
Hard disk	Large capacity storage device for storing data. The data can be stored even if the power is turned off.
Host Name	Displayed name of a device over a network.
HTTP	Abbreviation for HyperText Transfer Protocol. A protocol used to send and receive data between a Web server and a client (Web browser). Documents containing images, recordings, and video clips can be exchanged with the expressive form information.

Term	Definition
ID & Print	Function that allows you to print the job that was sent from the printer driver when performing user authentication by entering the ID and password from the control panel or positioning the finger or an IC card on the authentication unit that is connected to this machine. To use an authentication unit, it must be installed on this machine, and the finger vein pattern for each user must be registered.
Install	To install hardware, operating systems, applications, printer drivers on to a computer
IPP	Abbreviation for Internet Printing Protocol. A protocol that sends and receives print data and controls printers over the Internet on a TCP/IP network. Data can also be sent to printers in remote areas to print over the Internet.
IPX	One of protocols used with NetWare. Operates at the network layer of the OSI reference model.
IPX/SPX	Abbreviation for Internetwork Packet Exchange/Sequenced Packet Exchange. A protocol developed by Novell, Inc. that is commonly used under a NetWare environment.
IP address	A code (address) that is used to identify individual network devices over the Internet. A maximum of three digits for four numbers are displayed such as 192.168.1.10. IP addresses are assigned to devices, including computers, which are connected to the Internet.
LAN	Abbreviation for Local Area Network. A network which connects computers on the same floor, in the same building, or in neighboring buildings.
Local printer	A printer connected to a parallel or USB port of a computer.
LPD	Abbreviation for Line Printer Daemon. A printer protocol that uses TCP/IP and is platform-independent. Originally developed for BSD UNIX, it has become the standard printing protocol and can be used with any general computer.
LPR/LPD	Abbreviation for Line Printer Request/Line Printer Daemon. A printing method over a network in a Windows NT system or UNIX system. Using TCP/IP, you can output print data from Windows or Unix to a printer over a network.
MAC address	Abbreviation for Media Access Control address. With a special ID number for each Ethernet card, data can be sent and received between the cards. A number consists of 48 bits. The first 24 bits consist of a special number for each manufacturer controlling and assigning IEEE. The last 24 bits consist of a number that the manufacturer assigns uniquely to the card.
Memory	Storage device for storing data temporally. When the power is turned off the data may or may not be erased.
NDPS	Abbreviation for Novell Distributed Print Services. Provides a highly efficient printing solution in an NDS environment. By using the NDPS as a printer server, you can output from the desired printer, automatically download the printer driver of a newly installed printer, simplify and automate complicated management environments related to printer use, and integrate management related to the network printer.
NDS	Abbreviation for Novell Directory Services. The servers and printers on a network and the shared resources of the user's information, as well as the user's access authority over these items can be consolidated in the hierarchy structure.
NetBIOS	Abbreviation for Network Basic Input Output System. A communication interface developed by IBM.
NetBEUI	Abbreviation for NetBIOS Extended User Interface. A network protocol developed by IBM. By simply specifying the computer name, you can build a small-scale network.
NetWare	Network operating system developed by Novell. NetWare IPX/SPX is used as the communication protocol.
Nprinter/Rprinter	Remote printer support module for using a printer server under a NetWare environment. Use NetWare 3.x with Rprinter, and NetWare 4.x with Nprinter.
OHP/OHT	Transparent sheet used for OHP (overhead projector). Used for a presentation, etc.
OS	Abbreviation for Operating System. Basic software for controlling the system of a computer. Windows, MacOS, and Unix are Operating Systems.
Outline font	A font using lines and curves to display an outline of a character. Large-size characters can be displayed on a screen or printed with no jagged edges.
PDF	Abbreviation for Portable Document Format. An electronically formatted document which uses the .pdf extension. Based on the PostScript format, you can use the free Adobe Acrobat Reader software to view documents.
PDL	Abbreviation for Page Description Language. The language for specifying the print image per page to a printer when printing using a page printer.
Peer-to-peer	A network format that allows connected devices to communicate without using a dedicated server.

Term	Definition
Plug-and-play	Ability to automatically find and use the appropriate driver when a peripheral device is connected to a computer.
PostScript	A typical page-descriptive language developed by Adobe and is commonly used for high quality printing.
PPD	Abbreviation for PostScript Printer Description. A file used to describe the resolution, usable paper size, and the PostScript printer model special information.
Preview	A function that allows you to view an image before processing a print or scan job.
Print Job	Print request transmitted from a computer to a printing device.
Print queue	A software system which queues the generated print job in the devices.
Printer buffer	Memory domain temporarily used for data processing of a print job
Printer driver	Software that works as a bridge between a computer and a printer.
Profile	Color attribute file The dedicated file that contains the summarized correlation of the input and output of each primary color used so that the color input and output devices can reproduce the color.
Property	Attribute information When using a printer driver, various functions can be specified in the file properties. In the file properties, you can check the attribute information of the file.
Protocol	The rules that allow computers to communicate with other computers or peripheral devices
Proxy server	A server that is installed to act as an intermediary connection between each client and different servers to effectively ensure security over the entire system for Internet connections
PServer	A print server module under a NetWare environment. Monitors, changes, pauses, restarts, or cancels a print job.
Queue name	Name specified to each device that allows printing when network printing.
Resolution	Displays the ability to reproduce the details of images and print matter correctly.
RIP	Abbreviation for Raster Image Processor. Process that develops picture images from described text data using the PostScript page description language. The processor is usually integrated in the printer.
Samba	UNIX server software that uses SMB (Server Message Block) so that UNIX system resources can be used from a Windows environment.
Screen font	A font for displaying text and symbols on a CRT monitor.
Shared printer	A printer setup that allows the printer to be used by multiple computers connected to a server over a network.
SLP	Abbreviation for Service Location Protocol. A protocol capable of finding services over a TCP/IP network and automatically specifying a client.
SMB	Abbreviation for Server Message Block. A protocol that shares files and printers over a network and which is mainly used by Microsoft Windows.
SMTP	Abbreviation for Simple Mail Transfer Protocol. A protocol for sending and forwarding e-mail.
SNMP	Abbreviation for Simple Network Management Protocol. A management protocol in a network environment using TCP/IP.
Spool	Abbreviation for Simultaneous Peripheral Operation On-Line. For printer output, data is not sent directly to the printer, it is temporarily stored in another location, then sent to the printer collectively.
Subnet mask	The unit used to divide a TCP/IP network into small networks (subnetworks). It is used to identify the bits in a network address that are higher than the IP address.
TCP/IP	Abbreviation for Transmission Control Protocol/Internet Protocol. This is virtually the standard Internet protocol. IP addresses are used to identify respective network devices.
TrueType	An outline font. It was developed by Apple Computer and Microsoft. It is used as a standard by Mac and Microsoft Windows. It can be used both on a display and in print.
Uninstall	To delete software installed on a computer
USB	Abbreviation for Universal Serial Bus. A general interface standard for connecting a mouse, printer, and other devices to a computer.
Web browser	Software for viewing Web pages. Internet Explorer and Netscape Navigator are this type of software.

Term	Definition
WINS	Abbreviation for Windows Internet Naming Service. A service for recalling named servers for the conversion of computer names and IP address in a Windows environment.
XPS	Abbreviation for XML Paper Specification. One of the electronic document formats developed by Microsoft Corporation. It is first supported in Windows Vista.

16

Index

16 Index

Numerics

- 1-Sided *8-11, 9-13*
- 2-Sided *8-11, 9-13, 10-9*
- 2-Sided Print *12-17*

A

- A4/A3 LTR/LGR Auto Switch *12-10*
- Access method *13-3*
- Account Track *9-10, 11-26, 13-8*
- Add Printer *4-3, 4-5, 4-7, 4-11, 4-12, 4-14, 4-17, 4-21, 4-23, 4-24, 4-27*
- Administrator mode *13-11, 13-18*
- Administrator password *13-11*
- Administrator Settings *12-40*
- Administrator Settings screen *12-40*
- AppleTalk *3-8, 5-5, 5-9, 5-13*
- Authentication unit *11-29*
- Authentication/Account Track *8-9*
- Auto Delete Secure Document *12-45*

B

- Back Cover *8-14, 9-18, 10-9*
- Banner Paper Tray *12-21*
- Banner Sheet Setting *12-11*
- Basic tab *8-9*
- Binding Direction *10-9*
- Binding Direction Adjustment *12-12*
- Binding Margin *8-11*
- Binding Position *8-11, 9-13, 12-18*
- Bonjour *3-8, 5-4, 5-9*
- Booklet *10-9*
- Border *10-8*
- Box *13-15, 13-21*

C

- Cannot print *14-3*
- Center Staple and Fold *8-13*
- Chapters *8-11, 9-13*
- Collate *8-9, 9-10*
- Collated *9-9, 10-8*
- Color Matching *10-9*
- Color Settings *8-21, 9-27, 10-9*
- Combination *8-11, 10-9*
- Common setting *8-8, 9-6*
- Compatible computer *2-7*
- Confidential Document Access Method *11-10, 11-13*
- Configuration page *15-6*
- Configure tab *8-5*
- Connection method *3-6*
- Control panel *2-5*
- Copies *8-9, 9-9, 10-8*
- Copies & Pages *9-9*

- Copy Protect *8-16, 9-21*
- Cover Mode tab *8-14*
- Cover Mode/Transparency Interleave *9-18*
- CR/LF Mapping *12-27*
- Create Overlay File *8-16*
- Custom Page Size *10-7*
- Custom paper size *9-7*
- Custom Size *8-9*
- Custom size *9-7*

D

- Date/Time *8-16, 9-21*
- Default setting *8-7, 9-5, 10-5*
- Delete Secure Print Documents *12-44*
- Demo page *15-9*
- Device Option *8-5*
- Direct Print *13-16*
- Driver Password Encryption Setting *12-58*

E

- Edge Enhancement *8-21, 9-27, 10-9*
- Editing copy protect *9-22*
- Editing date/time *8-20, 9-24*
- Editing header/footer *9-26*
- Editing page number *8-20, 9-25*
- Editing watermark *8-17*
- Encrypt. Passphrase *8-5*
- Encryption Passphrase *9-11, 12-58*
- Error message *14-6*
- Ethernet *2-8*

F

- Fax driver *3-4*
- Finish tab *8-13*
- Fold *8-13, 10-9*
- Fold & Staple *9-13*
- Font list *15-7*
- Font Settings *8-21, 12-22*
- Font Size *12-25*
- Front Cover *8-14, 9-18, 10-9*

G

- General *10-8*
- Glossary *15-12*
- Glossy Mode *8-21, 9-27, 10-9*

H

- Header/Footer *8-16, 9-21*

I

- I/F Timeout *12-53*
- ID & Print *8-10, 11-29*
- Image Compression *8-21*
- Image Shift *8-11, 9-13*

Information 13-13

Initialization 8-4, 9-4, 10-4

Install 5-3, 5-13

Interface 2-8

IPP 3-6, 3-8, 4-7, 4-14, 4-24, 5-7, 5-11

IPPS 3-6, 4-7, 4-14, 4-24

J

Job 13-14

L

Layout (Pages per sheet) 10-8

Layout direction 10-8

Layout tab 8-11

Layout/Finish 9-13

Line/Page 12-26

Linux 15-10

Local connection 2-10, 4-9, 4-18, 4-26

Log off 13-7, 13-9

Log on 13-7, 13-9

LPD 4-3, 4-10, 4-21, 4-27, 5-6, 5-10, 5-14

LPR 3-6, 3-8, 4-3, 4-10, 4-21, 4-27, 5-6, 5-10, 5-14

M

Mac 2-7, 5-3

Maintenance 13-18

Manual conventions 1-4

N

NetWare 3-9, 6-3

Network 13-24

Network connection 2-9, 4-3, 4-5, 4-7, 4-10, 4-14, 4-16, 4-21, 4-23, 4-24, 4-27

Network window 4-16

Number of Copies 12-7

O

Offset 8-9, 9-10, 10-9

Operating environment 2-7, 13-3

Operating system 2-7

Options 9-4, 10-4

Orientation 9-8, 10-6

Original Direction 12-8

Original Orientation 8-9

Original Size 8-9

OS 9.2 5-13

OS X 10.2 5-3

OS X 10.3 5-3

OS X 10.4 5-3

Other tab 8-22

Output Method 8-9, 9-10, 10-9

Output Tray 8-13, 9-17, 10-9

Output Tray Settings 12-43

P

Page Attributes 9-8, 10-6

Page Number 8-16, 9-21

Pages 9-9, 10-8

Pages per sheet 10-8

PageScope Web Connection 13-3

Paper 10-6

Paper Arrangement 8-13, 9-13

Paper Size 8-9, 9-8, 12-16

Paper Source 10-8

Paper Tray 8-9, 9-17, 12-14

Paper Tray Information 8-5

Paper Tray/Output Tray 9-17

Paper Type 8-9, 9-17

Parameter details 8-9, 9-8, 10-6

Password 12-40

Pattern 8-21

PC-fax 2-3

PCL 3-4

PCL driver 3-4, 8-3

PCL Font List 15-7

PDL Setting 12-5

Per Page Setting 8-14, 9-20

Plug and play 4-9, 4-18, 4-26

Port9100 3-6, 4-3, 4-10, 4-21

Poster Mode 9-13

PostScript 3-4

PPD driver 3-4, 15-10

PPD file 5-13

Print 8-9, 9-10

Print Data Capture 12-56

Print in Overlay 8-16

Print PS Errors 12-28

Print Reports 12-33

Print Setting 13-22

Print Type 8-11, 9-13, 10-9

Print without Authentication 12-52

Print XPS Errors 12-54

Print/Fax Output Settings 12-42

Printer controller 2-3

Printer description file 5-13

Printer driver 3-4

Printer driver uninstallation 7-5

Printer Info 9-4

Printing flow 2-4

Printing operation 8-3, 9-3, 10-3

Product specification 15-3

Profile management 8-21, 9-27

Prohibit Functions When Authentication Error 11-13

Proof Print 8-9, 9-10, 11-3

Proof print 10-9

Properties screen 8-4

PS driver 3-4, 8-3

PS Font List 15-8

Public user *13-10*
Punch *8-13, 9-13, 10-9, 12-20*
Pure Black *10-9*

Q

Quality *9-27*
Quality Adjustment *8-21, 9-27*
Quality tab *8-21*

R

Recalling a job *11-5, 11-10, 11-19*
Registered user *13-10*
Release Held Job *11-5*
Rendezvous *5-9*
Resolution *8-21, 10-9*
Rotate 180 *8-11*
Rotate 180° *9-13*

S

Save in User Box *8-9, 9-10, 11-16*
Save in User Box and Print *9-10*
Save in User Box/Print *8-9, 11-16*
Scale *9-8, 10-6*
Screen *10-9*
Secure Print *8-9, 9-10, 11-7*
Secure Print User Box *11-10*
Secured document *11-10*
Security *13-20*
Select Color *8-21, 9-27, 10-9*
Selecting the printer *5-4, 5-9, 5-13*
Setting up *2-9*
Settings tab *8-6*
Setup method *3-6*
Skip Blank Pages *8-11*
SMB *3-6, 4-5, 4-10, 4-23*
Smoothing *10-9*
Spool Print Jobs in HDD before RIP *12-9*
Stamp/Composition *9-21*
Stamp/Composition tab *8-16*
Staple *8-13, 9-13, 10-9, 12-19*
Store Address *13-17, 13-23*
Structure of page *13-5*
Symbol Set *12-24*

T

Toner Save *8-21, 9-27, 10-9*
Transparency Interleave *8-14, 9-18, 10-9*
Troubleshooting *14-3*

U

Unable to print *14-5*
Unable to specify *14-5*
USB *2-8, 3-6, 4-9, 4-18, 4-26*
Use Document *11-10*
User Authentication *9-10, 13-8*
User authentication *11-22*
User box administrator *13-12*

User manuals *1-6*
User mode *13-13*
User Settings *12-3*

V

Verify XPS Digital Signature *12-30*

W

Watermark *8-16*
Web browser *13-3*
Web Service *4-16*
Web Service print *4-16*
Windows *2-7*
Windows 2000 *4-21*
Windows 7 *4-10*
Windows NT 4.0 *4-27*
Windows Server 2003 *4-3*
Windows Server 2008 *4-10*
Windows Vista *4-10*
Windows XP *4-3*

X

XPS driver *8-3*

Z

Zoom *8-9*

