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Introduction

1 Introduction

Thank you for purchasing this machine.

The MF350/250/201Plus is equipped with an integration printer controller that allows you to print directly from Windows-compatible computers or Macintosh computers.

This user manual describes the printing functions of the printer 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 User manuals – Copy/Print/Network Scan/Fax/Network Fax/Box Operations and Network Administrator.

For detailed safety information and operation precautions, refer to the User Manual.

For descriptions on trademarks and copyrights, refer to the User Manual.

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 printer 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 Macintosh operating systems, or software applications, refer to the corresponding manuals.

1.1.1 Contents

This manual consists of the following chapters:

Chapter 1 Introduction

Chapter 2 Overview of printer functions

Chapter 3 Precautions for installation

Chapter 4 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 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 Web Connection

Chapter 14 Troubleshooting

Chapter 15 Appendix

Chapter 16 Index

1.1.2 Product notation

Product name	Notation
MF350/250/201Plus, printer main body, and this machine	Machine or printer
Built-in network controller	Network controller
Printing system incorporating a printer controller and this machine	Printing system
Microsoft Windows	Windows

1.2 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.

1.3 User manuals

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

1.3.1 Printed manual

User manual

This manual contains operating procedures and descriptions of the most frequently used functions.

In addition, this manual contains notes and precautions that should be followed for safe use of the machine.

Be sure to read this manual before using the machine.

1.3.2 User manual CD manuals

Copy Operations

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

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

Print Operations (this manual)

This manual contains details of the printing functions that can be specified with the standard built-in printer controller.

Refer to this manual for operating procedures on using the printing functions.

Box Operations

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

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

Network Scan/Fax/Network Fax Operations

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

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

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

Network Administrator

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

Refer to this manual for details on using network functions.



Overview of printer functions

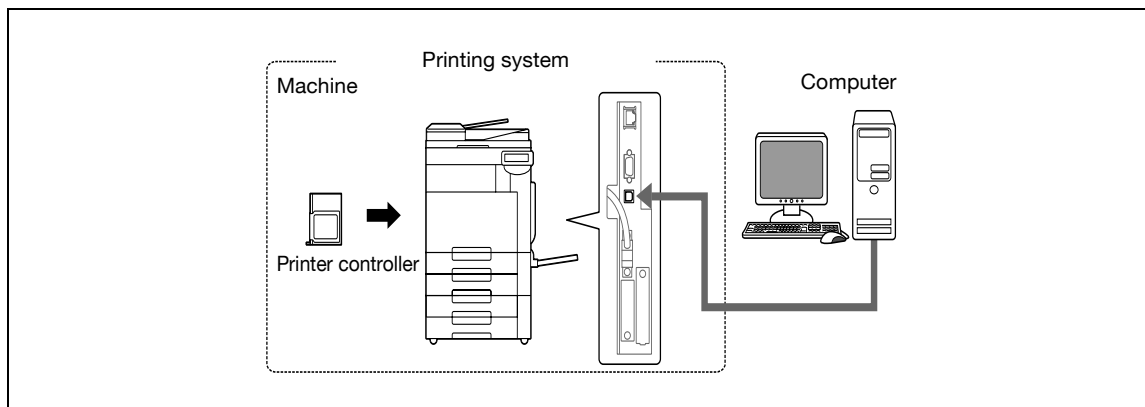
2 Overview of printer functions

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 built-in 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

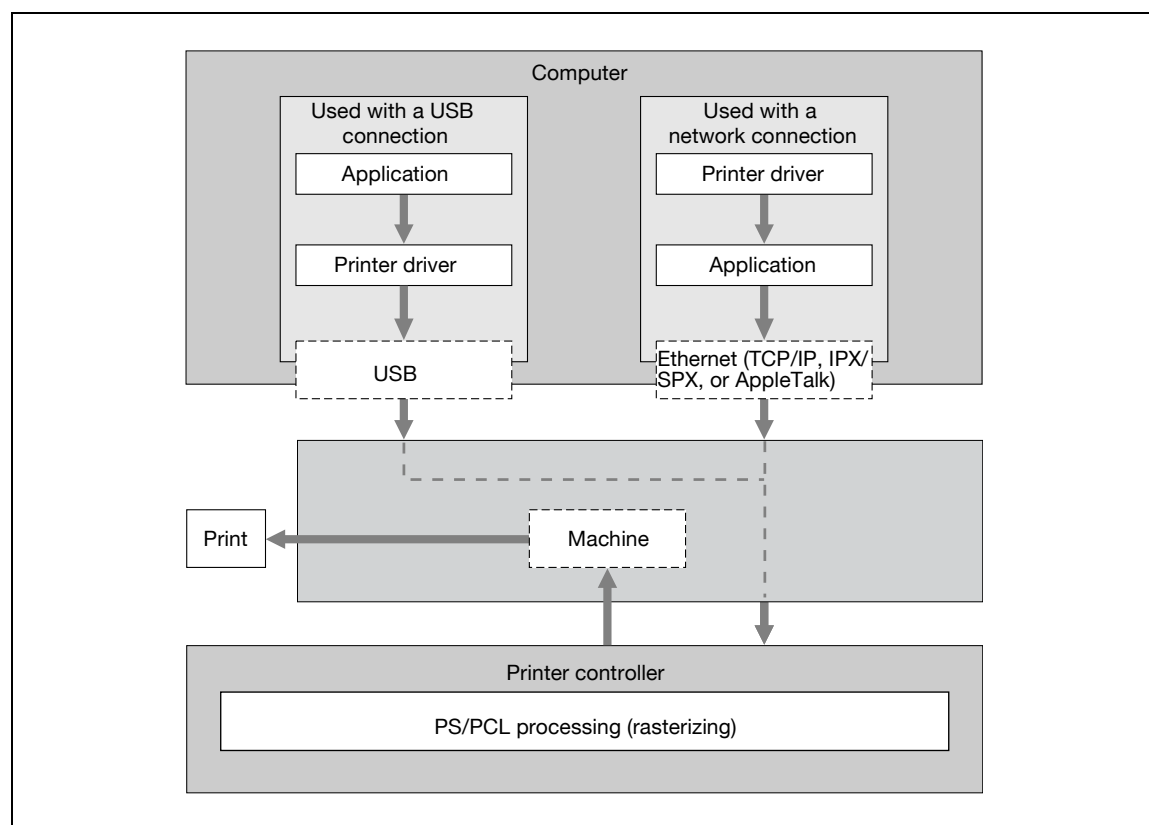
For details on the PC-fax transmission, refer to the User manual – Network Scan/Fax/Network Fax Operations.

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.



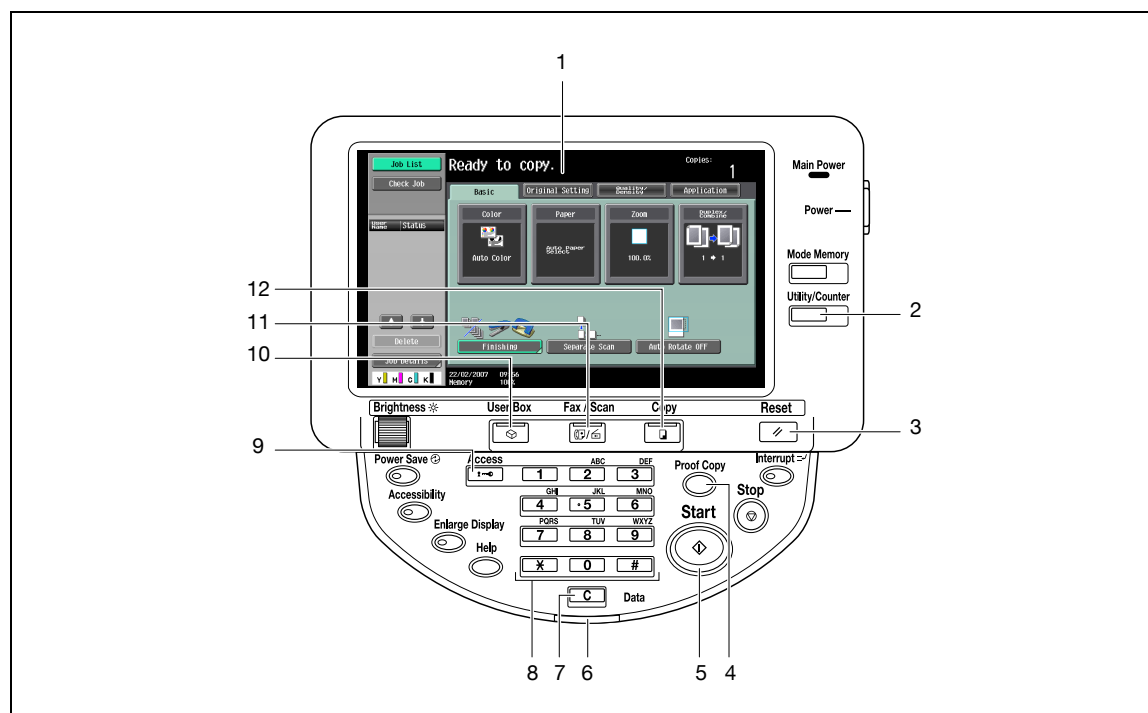
Original documents can be scanned in the copy function or network scan function while this machine is operating as a printer. To use the copy functions, press the [Copy] key on the control panel.

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 printer 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	Windows NT Workstation /Server Version4.0 (Service Pack 6 or later), Windows 2000 Professional /Server (Service Pack 3 or later), Windows XP Home Edition/Windows XP Professional, Windows XP Professional x64 Edition, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise x64 Edition, Windows Server 2003 Standard Edition, or Windows Server 2003, Standard x64 Edition
Processor	According to the environment recommended for the operating system
Memory	Capacity recommended for the operating system With sufficient memory resources in the operating system and application being used
Drive	CD-ROM
Web Browser (when using Web Connection)	Microsoft Internet Explorer Ver. 6 or later recommended (JavaScript and Cookies enabled) 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)

Macintosh

Item	Operating environment
Operating System	Mac OS 9.2, Mac OS X 10.2.8, Mac OS X 10.3, or Mac OS X 10.4
Processor	PowerPC, Intel Processor (Intel Processor is Mac OS X 10.4 only)
Memory	Capacity recommended for the operating system
Drive	CD-ROM
Web Browser (when using 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)

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), IPX/SPX (NetWare), and AppleTalk (EtherTalk) protocols.

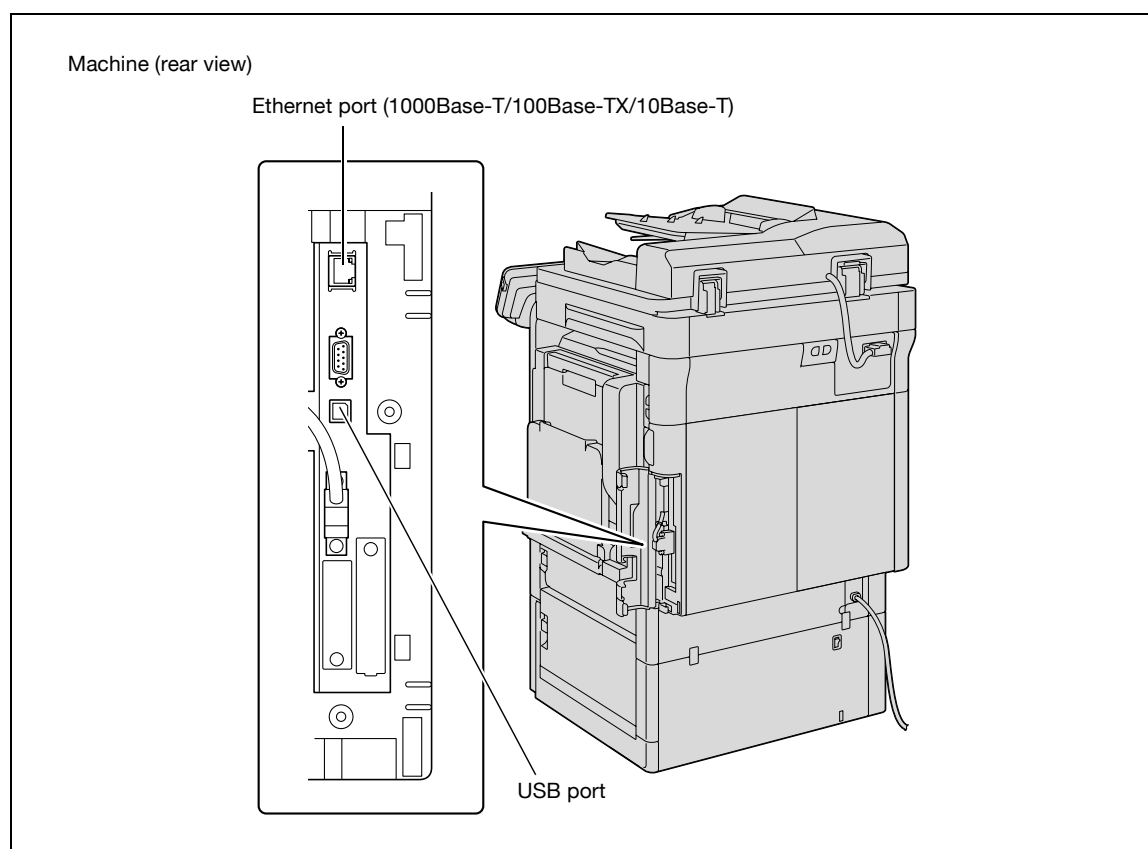
USB interface

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.

Connection diagram

The printer cables are connected to each port on this machine.



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.

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/PPS: Enable IPP print in the IPP Setting screen. For IPPS print, install the certificate in advance.
 - 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 CD-ROM contains the Latin TrueType fonts as screen fonts. The ScreenFont or Screen Fonts folder in the CD-ROM contains the screen fonts.
 - Install the screen fonts after adding the operating system standard fonts. For details, refer to Help of the operating system.
 - Macintosh fonts are compressed. Decompress them before installing.

2.3.2 Local connection

- 1 Connect this machine to a computer.
- 2 Install the printer driver.
- 3 Install the screen fonts.
 - The CD-ROM contains the Latin TrueType fonts as screen fonts. The ScreenFont or Screen Fonts folder in the CD-ROM 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 2-7.

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.

**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 12-40.



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 CD and the supported computer operating systems. Select the required printer driver.

Printer driver	Page description language	Supported operating systems
PCL Driver (PCL driver)	PCL6	Windows NT Workstation /Server Version4.0 (Service Pack 6 or later) Windows 2000 Professional /Server (Service Pack 3 or later) Windows XP Home Edition/Professional, Windows XP Professional x64 Edition Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise x64 Edition Windows Server 2003 Standard Edition, Windows Server 2003, Standard x64 Edition
PostScript Driver (PS driver)	PostScript3 Emulation	Windows 2000 Professional /Server (Service Pack 3 or later) Windows XP Home Edition/Professional, Windows XP Professional x64 Edition, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise x64 Edition Windows Server 2003 Standard Edition, Windows Server 2003, Standard x64 Edition
PostScript PPD driver (PS-PPD)		Mac OS 9.2 or later Mac OS X 10.2.8, Mac OS X 10.3, or Mac OS X 10.4
Fax driver		Windows NT Workstation /Server Version4.0 (Service Pack 6 or later) Windows 2000 Professional /Server (Service Pack 3 or later) Windows XP Home Edition/Professional, Windows XP Professional x64 Edition Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise x64 Edition Windows Server 2003 Standard Edition, Windows Server 2003, Standard x64 Edition



Note

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

For details on fax drivers, refer to the User manual – Network Scan/Fax/Network Fax 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), 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.	"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 4-25



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.

3.3.2 Windows Vista

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.	"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, 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: "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, 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, 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.	"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 10.2, 10.3, or 10.4

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

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 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.



Installation using the Add Printer wizard

4 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



Reminder

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

- 1 Insert the printer driver CD-ROM into the CD-ROM 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 CD-ROM 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:
Windows XP/Server 2003: PCL driver, PS driver, fax driver
- 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 CD-ROM from the CD-ROM 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 printer driver CD-ROM into the CD-ROM 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 CD-ROM 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:
Windows XP/Server 2003: PCL driver, PS driver, fax driver
- 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 CD-ROM from the CD-ROM 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 printer driver CD-ROM into the CD-ROM 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 CD-ROM 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: Windows XP/Server 2003: 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 CD-ROM from the CD-ROM 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**

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 printer driver CD-ROM into the CD-ROM 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 CD-ROM 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. Windows XP/Server 2003: PCL driver, PS driver, fax driver
- 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 CD-ROM from the CD-ROM drive.
This completes the printer driver installation.

4.2 Windows Vista

4.2.1 Network connection (LPR, Port9100, or SMB)

In Windows Vista, 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, 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 printer driver CD-ROM into the CD-ROM drive of the computer.
- 2** Click the [Start] button, and then click "Control Panel".
- 3** From "Hardware and Sound", click "Printer".
 - If Control Panel is displayed with Classic View, double-click "Printers".The Printers window appears.
- 4** Click "Add a printer" from the toolbar.
The Add Printer window appears.
- 5** Click "Add a network, wireless or Bluetooth printer".
 - 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".
 - 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 CD-ROM 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: Windows Vista: PCL driver, PS driver, fax driver
- 10** Click the [OK] button.
The "Printer" list appears.
- 11** Click the [Next] button.
- 12** 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".
- 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 CD-ROM from the CD-ROM drive.
This completes the printer driver installation.

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



Reminder

When installing on Windows Vista, 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 printer driver CD-ROM into the CD-ROM drive of the computer.
- 2** Click the [Start] button, and then click "Control Panel".
- 3** From "Hardware and Sound", click "Printer".
 - If Control Panel is displayed with Classic View, double-click "Printers".The Printers window appears.
- 4** Click "Add a printer" from the toolbar.
The Add Printer window appears.
- 5** Click "Add a local printer".
The Select a Printer Port dialog box appears.
- 6** Click "Create a new port", and select the port type.
 - When using an LPR/Port9100 connection, select "Standard TCP/IP Port".
 - When using an SMB connection, select "Local Port".
- 7** Click the [Next] 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 CD-ROM 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:
Windows Vista: PCL driver, PS driver, fax driver
- 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 CD-ROM from the CD-ROM 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



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Reminder

When installing on Windows Vista, administrator permissions are required.

- 1 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.
- 2 Click the [Start] button, and then click "Control Panel".
 - If Control Panel is displayed with Classic View, double-click "Printers".
- 3 From "Hardware and Sound", click "Printer".
The Printers window appears.
- 4 Click "Add a printer" from the toolbar.
The Add Printer window appears.
- 5 Click "Add a network, wireless or Bluetooth printer".
The connected printers are found.
- 6 In the window showing the search results, click "The printer that I want isn't Listed".
- 7 In the "Select a shared printer by name" box, enter the URL for 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 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 CD-ROM 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: Windows Vista: PCL driver, PS driver, fax driver
- 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 CD-ROM from the CD-ROM 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, 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 "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



Reminder

When installing on Windows Vista, administrator permissions are required.

- 1 Turn on the power of the machine while it is connected to the network.
 - To allow printers to be detected during installation, the machine must be connected to the network.
- 2 To use the Web Service print, check that "Network discovery" is enabled in "Network and Sharing Center" on the computer.
- 3 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.
- 4 Click the [Start] button, and then click "Network".

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

The selected Web Service print-supporting printer is found, and then the Found New Hardware Wizard dialog box appears.

 - If the User Account Control window appears, click the [Continue] button.
- 6 Follow the on-screen instructions.
 - The steps performed in the New Hardware Wizard dialog box are the same as those described in "Printer driver installation by specifying the IP address using the Add Printer Wizard". For details, refer to Steps 11 through 20 of "Printer driver installation by specifying the IP address using the Add Printer Wizard" on page 4-17.
 - 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".

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

When installing on Windows Vista, administrator permissions are required.

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

- 1** Turn on the power of the machine while it is connected to the network.
 - To allow printers to be detected during installation, the machine must be connected to the network.
- 2** To use the Web Service print, check that "Network discovery" is enabled in "Network and Sharing Center" on the computer.
- 3** Insert the printer driver CD-ROM into the CD-ROM drive of the computer.
- 4** Click the [Start] button, and then click "Control Panel".
- 5** From "Hardware and Sound", click "Printer".
The Printers window appears.
 - If Control Panel is displayed with Classic View, double-click "Printers".
- 6** Click "Add a printer" from the toolbar.
The Add Printer window appears.
- 7** Click "Add a local printer".
The Select a Printer Port dialog box appears.
- 8** Click "Create a new port", and select the port type.
 - Select "Standard TCP/IP Port".
- 9** Click the [Next] button.
- 10** 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.
- 11** 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 CD-ROM 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:
Windows Vista: PCL driver, PS driver, fax driver
- 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 CD-ROM from the CD-ROM drive.
This completes the printer driver installation.

4.2.4 Local connection

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



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Note

When a USB connection is used, the printer driver is installed easily with the Plug and Play feature. However, it 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 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 printer driver CD-ROM into the CD-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, fax driver
- 6 Follow the on-screen instructions.
 - If the "User Account Control" window appears, click the [Continue] 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 CD-ROM from the CD-ROM drive.
This completes the printer driver installation.

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 printer driver CD-ROM into the CD-ROM 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 CD-ROM 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:
Windows 2000: PCL driver, PS driver, fax driver
- 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 CD-ROM from the CD-ROM 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.



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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 using the Add Printer Wizard



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Reminder

When installing on Windows 2000, administrator permissions are required.

- 1 Insert the printer driver CD-ROM into the CD-ROM 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 CD-ROM 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:
Windows 2000: PCL driver, PS driver, fax driver
- 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 CD-ROM from the CD-ROM 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



Reminder

When installing on Windows 2000, administrator permissions are required.

- 1 Insert the printer driver CD-ROM into the CD-ROM 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 CD-ROM 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: Windows 2000: PCL driver, PS driver
- 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 CD-ROM from the CD-ROM 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.

- 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 printer driver CD-ROM into the CD-ROM 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 CD-ROM 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. Windows 2000: PCL driver, PS driver, fax driver
- 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 CD-ROM from the CD-ROM 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 printer driver CD-ROM into the CD-ROM 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 CD-ROM 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:
Windows NT 4.0: PCL driver, fax driver
- 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 CD-ROM from the CD-ROM 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, or 10.4

5.1.1 Installing the printer driver

- 1 Start up the Macintosh computer.
- 2 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.
 - Exit all running applications, if any.
- 3 Open the folder on the CD-ROM 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:GENERIC_35C-4_102.pkg
 - OS X 10.3:GENERIC_35C-4_103.pkg
 - OS X 10.4:GENERIC_35C-4_103.pkg
- 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 Easy Install dialog box, click the [Install] button.
 - 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 Macintosh 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)

In OS 10.4, this machine can be connected with Bonjour, 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 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 (Bonjour settings)

- 1 Select "HDD" - "Applications" - "Utility" 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.
 - 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.
- 3 From the "Printer Name" list, select the desired model name and connection (Bonjour).
- 4 Select "GENERIC" in "Print Using", select the desired model from the list of models, and then click the [Add] button.

If the selected printer is registered in the printer list, 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.

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

Adding a printer (AppleTalk settings)

- 1 Select "HDD" - "Applications" - "Utility" 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.
 - 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.
- 3 From the "Printer Name" list, select the desired model name and connection (AppleTalk).
- 4 Select "GENERIC" in "Print Using", select the desired model from the list of models, and then click the [Add] button.

If the selected printer is registered in the printer list, 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.

Specifying the TCP/IP setting for this machine (LPR settings)

- 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 (LPR settings)

- 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 (LPR settings)

Specify the TCP/IP setting for the Macintosh 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 Macintosh computer is connected, and then specify the IP address and subnet mask.
- 6 Click the close button at the upper left corner of the dialog box.
 - When the "Apply configuration changes?" message appears, click the [Apply] button.

Adding a printer (LPR settings)

- 1 Select "HDD" - "Applications" - "Utility" 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. The "Printer Browser" appears.
- 3 Click the [IP Printer] button.
- 4 From "Protocol", select "LPD".
- 5 In "Address", enter the IP address of this machine.
- 6 Select "GENERIC" in "Print Using", select the desired model from the list of models, and then click the [Add] button.

If the selected printer is registered in the printer list, 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.

Specifying the TCP/IP setting for this machine (IPP settings)

- 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 (IPP settings)

Specify the TCP/IP setting for the Macintosh 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 Macintosh computer is connected, and then specify the IP address and subnet mask.
- 6 Click the close button at the upper left corner of the dialog box.
 - When the "Apply configuration changes?" message appears, click the [Apply] button.

Adding a printer (IPP settings)

- 1 Select "HDD" - "Applications" - "Utility" 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. The "Printer Browser" appears.
- 3 Click the [IP Printer] button.
- 4 From "Protocol", select "IPP".
- 5 In "Address", enter the IP address of this machine. In "Queue", enter "ipp".
- 6 Select "GENERIC" in "Print Using", select the desired model from the list of models, and then click the [Add] button.

If the selected printer is registered in the printer 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.

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 Bonjour settings for this machine (Rendezvous settings)

→ 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 (Rendezvous settings)

- 1 Select "HDD" - "Applications" - "Utility" 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 "GENERIC" 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 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 Macintosh 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 (AppleTalk)

- 1 Select "HDD" - "Applications" - "Utility" 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 "GENERIC" 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 TCP/IP setting for this machine (LPR settings)

- 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 (LPR settings)

- 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 (LPR settings)

Specify the TCP/IP setting for the Macintosh 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 Macintosh computer is connected, and then specify the IP address and subnet mask.
- 6 Click the close button at the upper left corner of the dialog box.
 - When the "Apply configuration changes?" message appears, click the [Apply] button.

Adding a printer (LPR settings)

- 1 Select "HDD" - "Applications" - "Utility" 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 "GENERIC" 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 TCP/IP setting for this machine (IPP settings)

- 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 (IPP settings)

Specify the TCP/IP setting for the Macintosh 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 Macintosh computer is connected, and then specify the IP address and subnet mask.
- 6 Click the close button at the upper left corner of the dialog box.
 - When the "Apply configuration changes?" message appears, click the [Apply] button.

Adding a printer (IPP settings)

- 1 Select "HDD" - "Applications" - "Utility" 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 "IPP".
- 5 In "Printer Address", enter the IP address of this machine.
 - Leave "Queue Name" blank.
- 6 Select "GENERIC" 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 Macintosh computer.

- 1 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.
- 2 Open the folder on the CD-ROM 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 GENERIC35C-4UVxxx.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 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 Macintosh 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 (AppleTalk settings)

- 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 TCP/IP setting for this machine (LPR settings)

- 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 (LPR settings)

- 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 (LPR settings)

Specify the TCP/IP setting for the Macintosh 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 Macintosh 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 (LPR settings)

- 1 Select "HDD" - "Applications" - "Utility", 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.



Reminder

When installing on NT4.0/2000/XP/Vista/Server 2003, administrator permissions are required.

- 1 Insert the printer driver CD-ROM into the CD-ROM 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 CD-ROM 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/Vista/Server 2003: PCL driver, PS 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.

7.1.1 Uninstallation

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

- 1 Open the Printers window or Printers and Faxes window.
- 2 Select the icon of the printer to be deleted.
- 3 Press the [Delete] key on the computer keyboard to delete the printer driver.
- 4 Follow the on-screen instructions.

When the driver has been deleted, the icon disappears from the Printers window or the Printers and Faxes window.
For Windows NT 4.0, this completes the driver uninstallation.
For Windows 2000/XP/Vista/Sever 2003, 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, right-click space in the Printers window and click "Run as administrator", then click "Server Properties".
 - 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, 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, 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 preceding method, 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 driver, PostScript 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, 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 Macintosh OS X

- 1 Open the [Printer Setup Utility] (or [Print Center]) located in "Applications" - "Utilities" of "Hard Disk".
- 2 Select the printer name to be deleted, and then click the [Delete] button.
The selected printer is deleted.
- 3 Close the printer list.
- 4 Drag the following file, which is located in "Library" - "Printers" - "PPDs" - "Contents" - "Resources" - "ja.lproj" of "Hard Disk", to the "Trash" icon.
 - "GENERIC 25C-4.gz"
 - "GENERIC 35C-4.gz"
- 5 Delete the unnecessary files from "Library" - "Printers".
 - Drag the "35C-4" folder, which is located in "Library" - "Printers" - "GENERIC", to the "Trash" icon.
 - For Mac OS 10.2, drag all the "GENERIC 35C-4" folders, which are located in "Library" - "Printers" - "PPDPlugins", to the "Trash" icon.
- 6 Restart the computer.
This completes the printer driver uninstallation.

7.2.2 For Macintosh OS 9.2

- 1 Drag the printer icon on the desktop to the "Trash" icon.
- 2 Drag PPD file "GENERIC35C-4UVxxx.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.



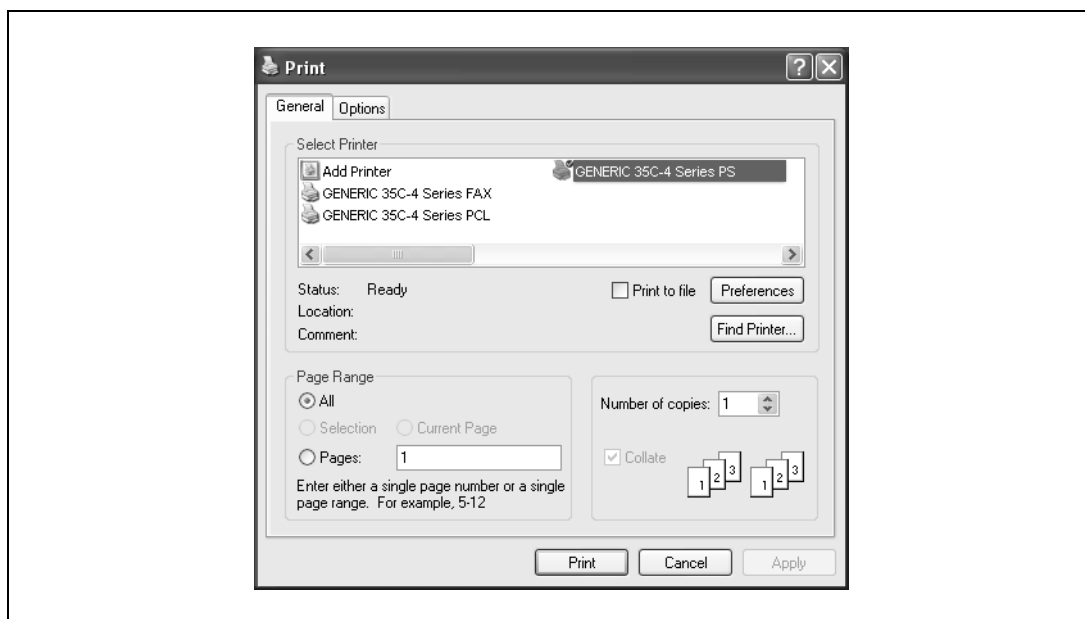
Print functions of the PCL/PS drivers for Windows

8 Print functions of the PCL/PS 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.

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.



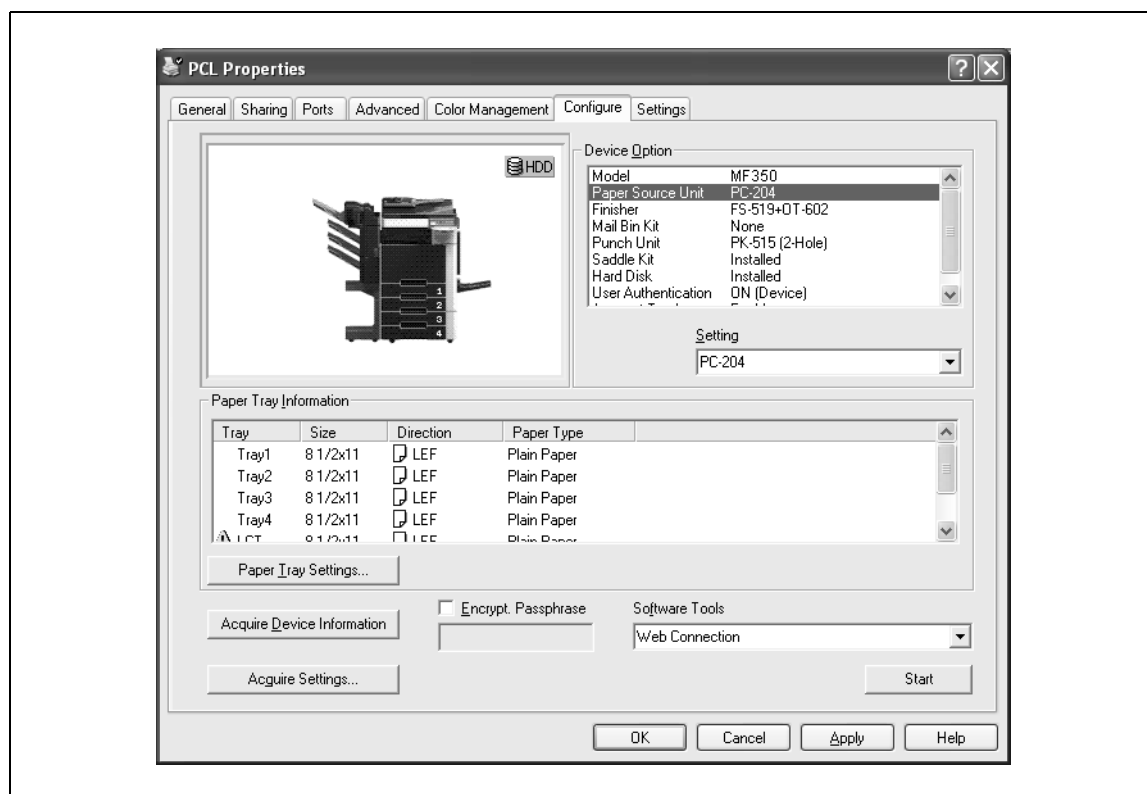
Reminder

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 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, click the [Start] button to open the "Control Panel", select "Hardware and Sound", and then click "Printers".
 - In Windows Vista, if Control Panel is displayed with Classic View, double-click "Printers".
- 2 Right-click the icon of the installed printer, and then 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 Web Connection.

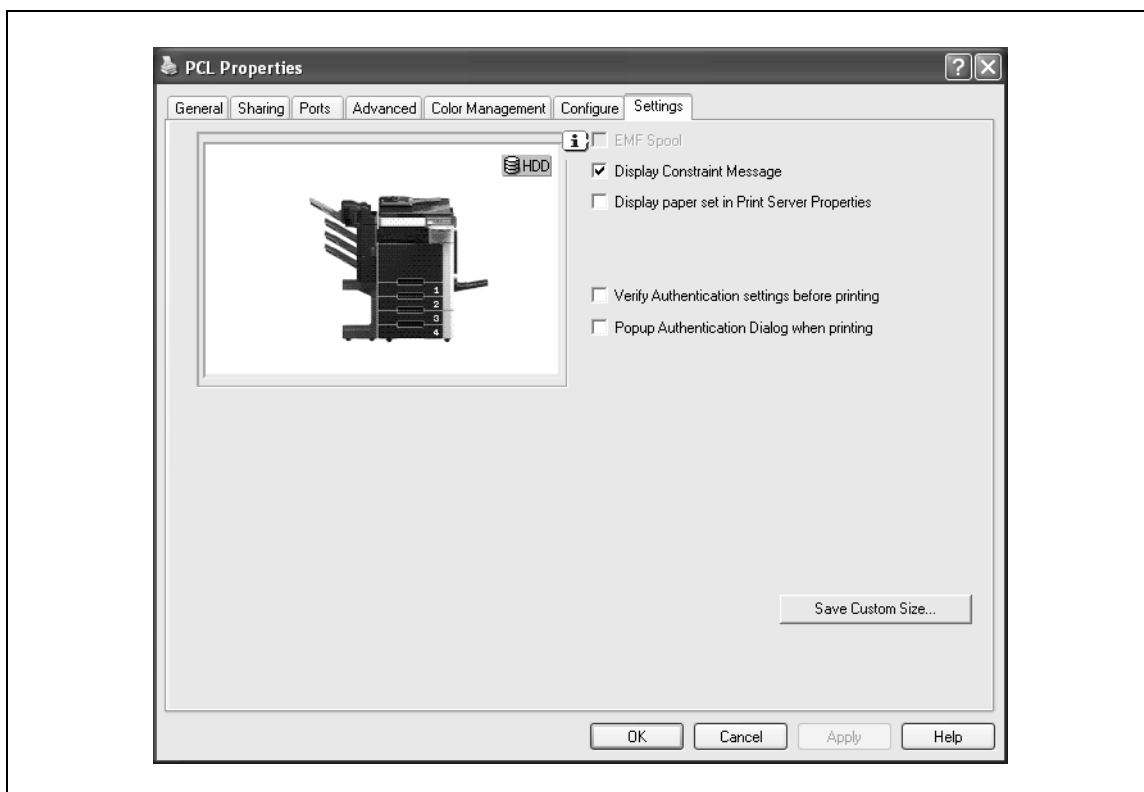
**Note**

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 11-28.

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.
Save Custom Size	Saves the custom paper sizes.



Note

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

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 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, click the [Start] button to open the "Control Panel", select "Hardware and Sound", and then click "Printers".
 - In Windows Vista, if Control Panel is displayed with Classic View, double-click "Printers".
- 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.



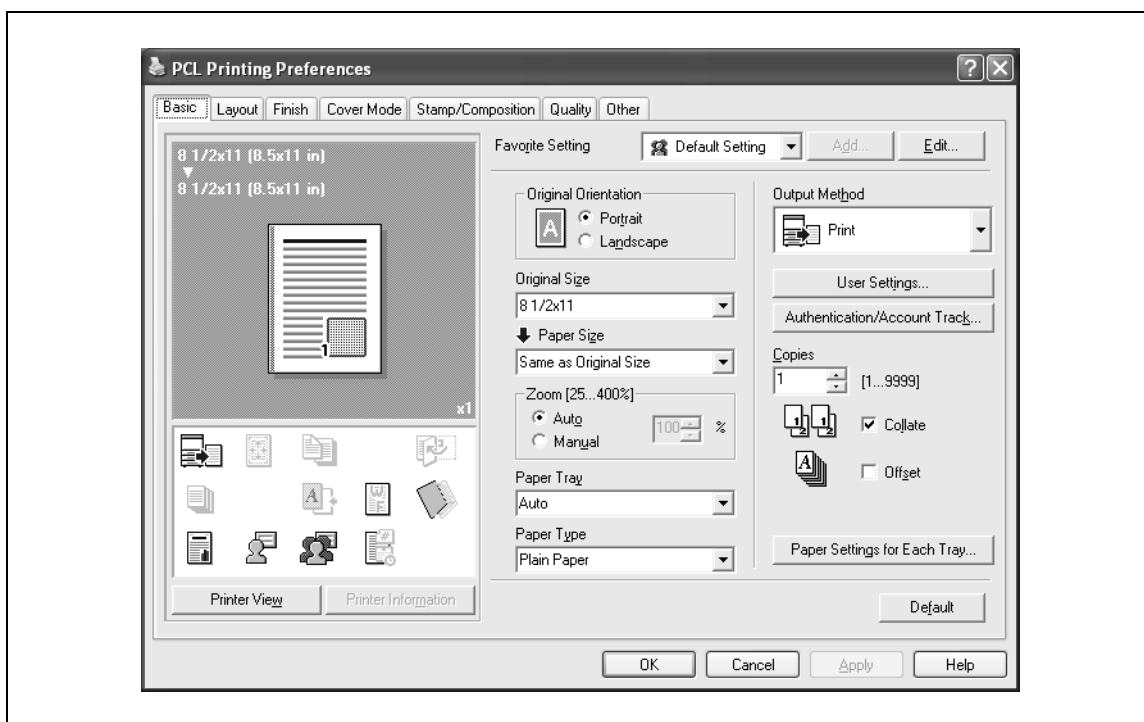
Detail

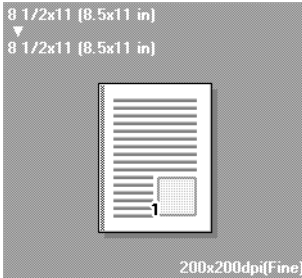

For the function and settings of the printer driver, refer to "Parameter details" on page 8-9.

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.



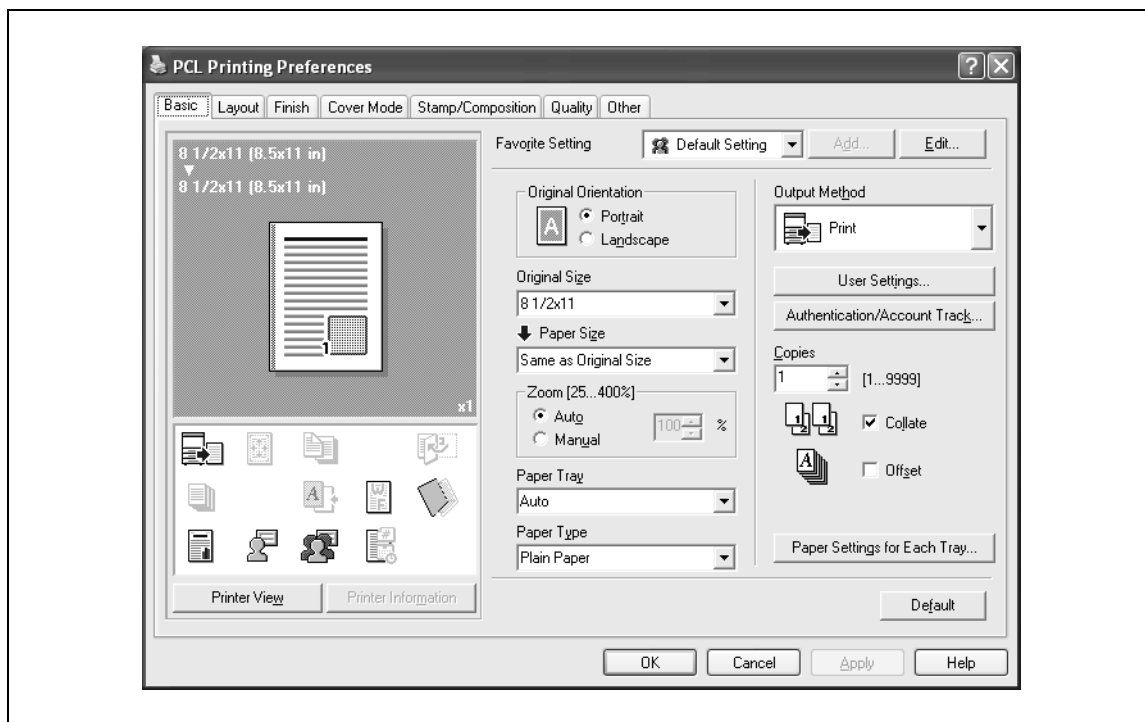
Item	Description
OK	Click this button to close the dialog box and apply any settings that have been changed.
Cancel	Click this button to cancel any settings that have been changed and close the dialog box.
Help	Click this button to display the help for each item on the currently displayed dialog box.
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.</p> <p>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>200x200dpi[Fine]</p> <p>Paper</p> </div> <div style="text-align: center;">  <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 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.
[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 999	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

The paper size "12 × 18" is equivalent to 304.8 × 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 first. You can register a non-standard size by selecting "Custom Size" from the paper size option or original size option.

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 × 11 size data on 11 × 17 size paper, specify "8 1/2 × 11W" as the paper size and "Bypass Tray" as the paper tray with the printer driver. To print, set 11 × 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 × 11W" from [Change Size] and enter 11 × 17 size.

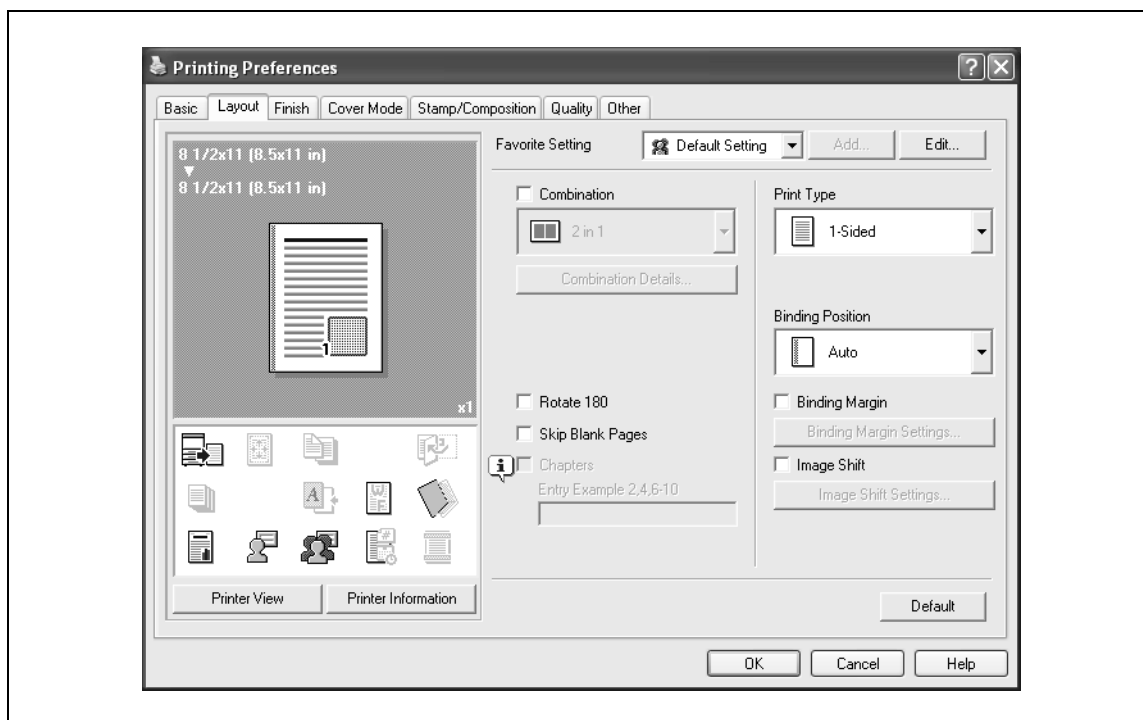
Specify "Duplex Side 2" to print on the back side of a page.



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".
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" or "Booklet".
Page Number	—	Specifies the page to be printed on the front side when "Chapters" is ON.
Print Type	1-Sided, 2-Sided, Booklet	Specifies duplex printing and booklet printing.
Binding Position	Auto, Left Bind, Right Bind, Top Bind	Specifies the binding position.
Page Margin	ON/OFF	Specifies the binding margin. Click the [Binding Margin Settings] button to specify the margin values.
[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.

Function name	Option	Description
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.



...

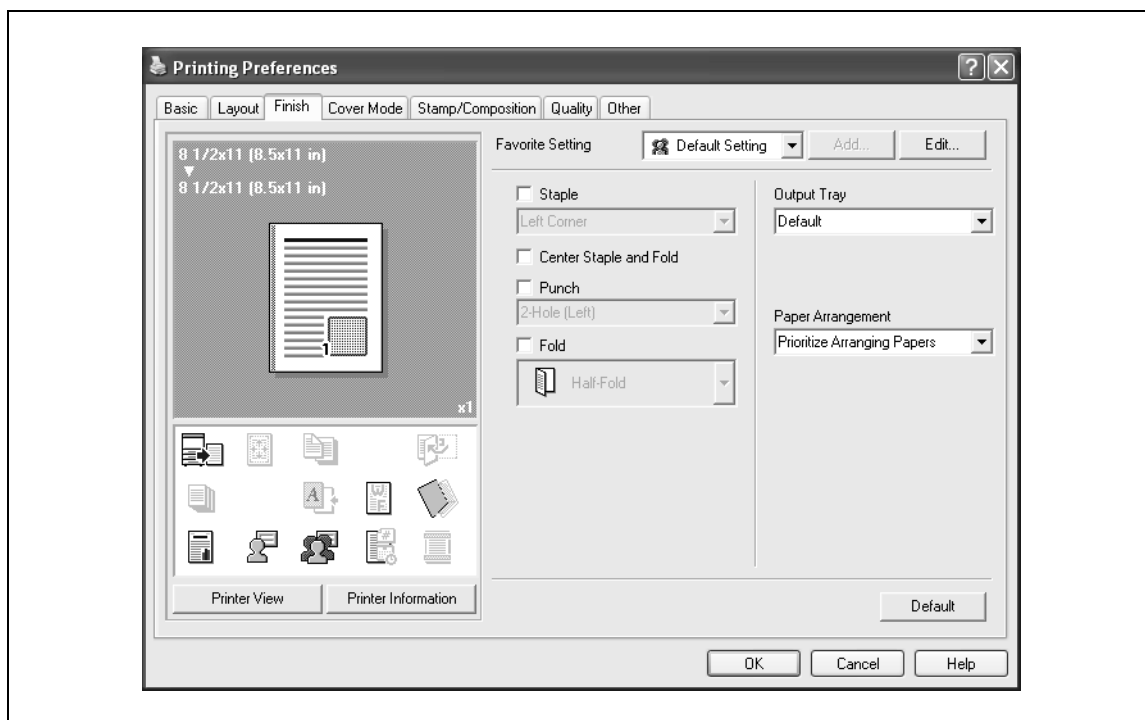
Note

"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 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.
Paper Arrangement	Prioritize Arranging Papers, Prioritize Productivity	Specifies the method for adjusting the binding position for 2-sided print. The binding position is adjusted after receiving all data for finishing priority. The data is received and printed for productivity priority.

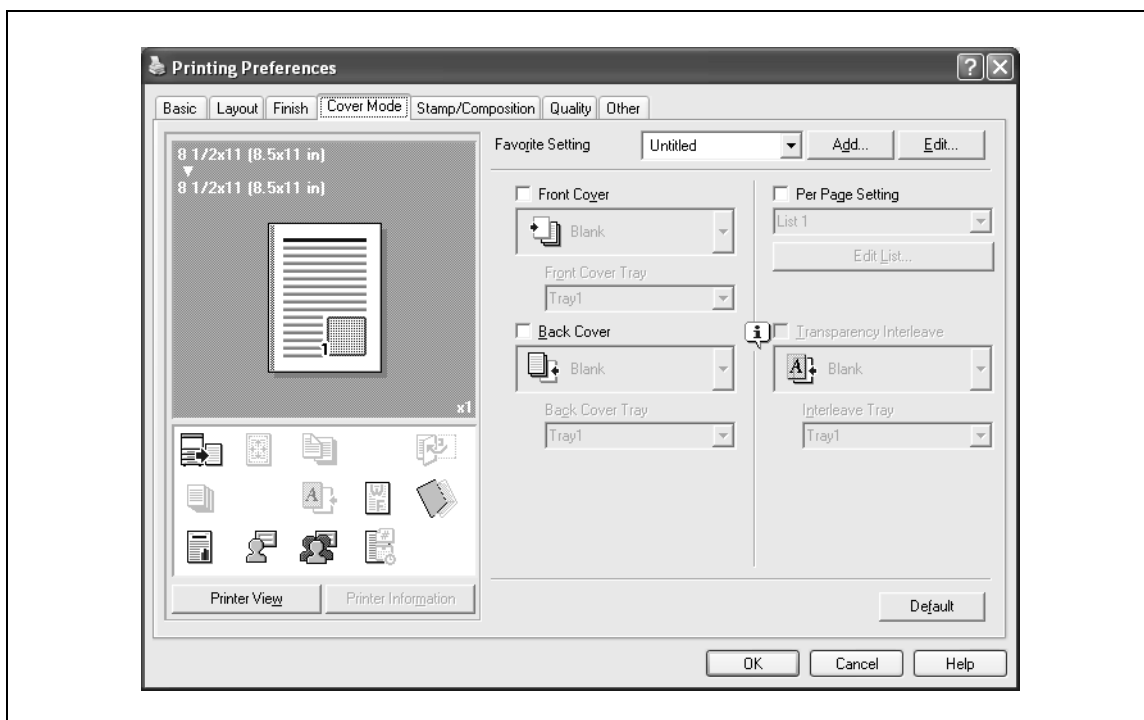


Note

"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.

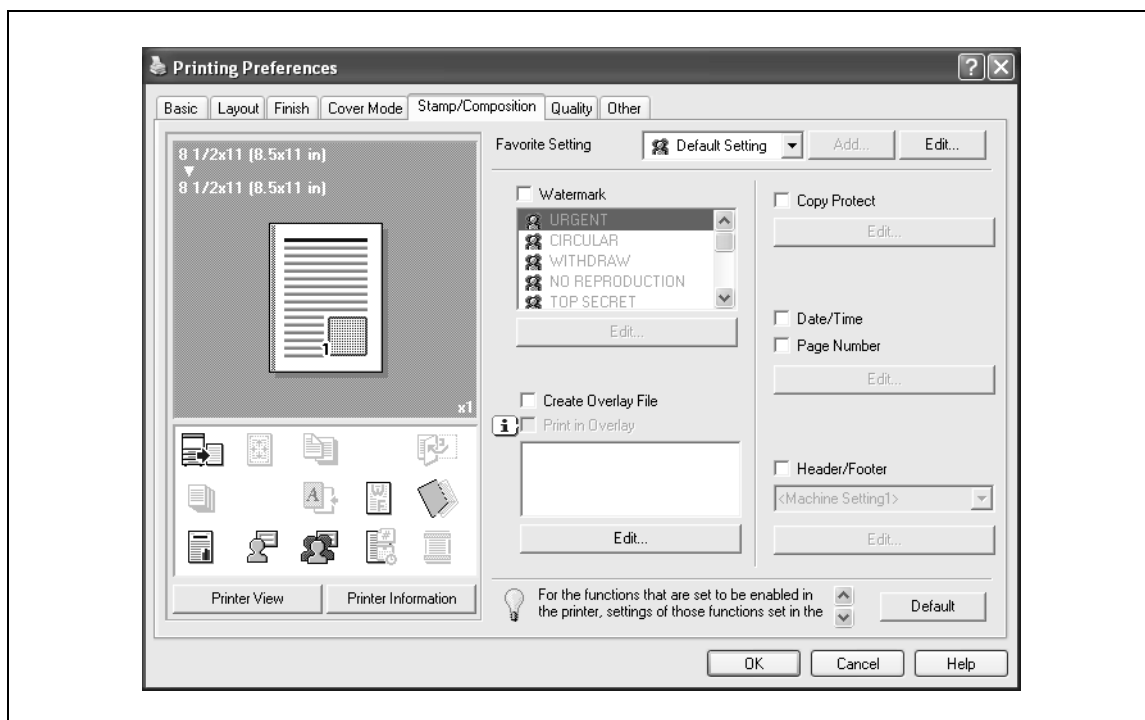
8.4.4 Cover Mode tab



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.
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.
[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.
	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.
	Paper Tray	Specifies the paper tray used for printing from the "Change Setting" drop-down list.
	Staple	Specifies the number of staples and the stapling position from the "Change Setting" drop-down list.

Function name	Option	Description
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.

8.4.5 Stamp/Composition tab



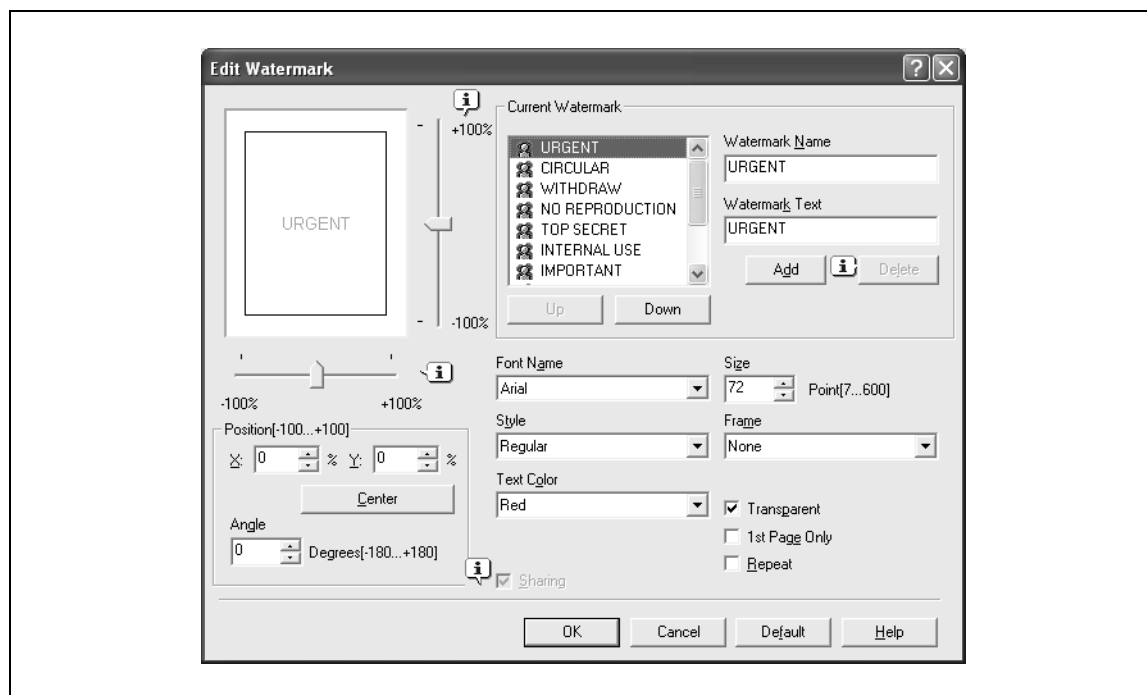
Function name	Option	Description
Watermark	ON/OFF	Prints a watermark (text stamp) on the page being printed. [Edit] allows you to add, change and delete Watermarks.
[Edit]	—	For details, refer to "Editing watermark" on page 8-18.
Create Overlay File	ON/OFF	Create overlay data by checking this to print 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	Prints a special pattern to prevent copying. [Edit] allows you to specify items, positions and the composition to be printed.
[Edit]	—	For details, refer to "Eding copy protect" on page 8-19.
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 8-21.
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	Specifies the pages to be printed.
	Text Color	Specifies the text color used for printing.

**Note**

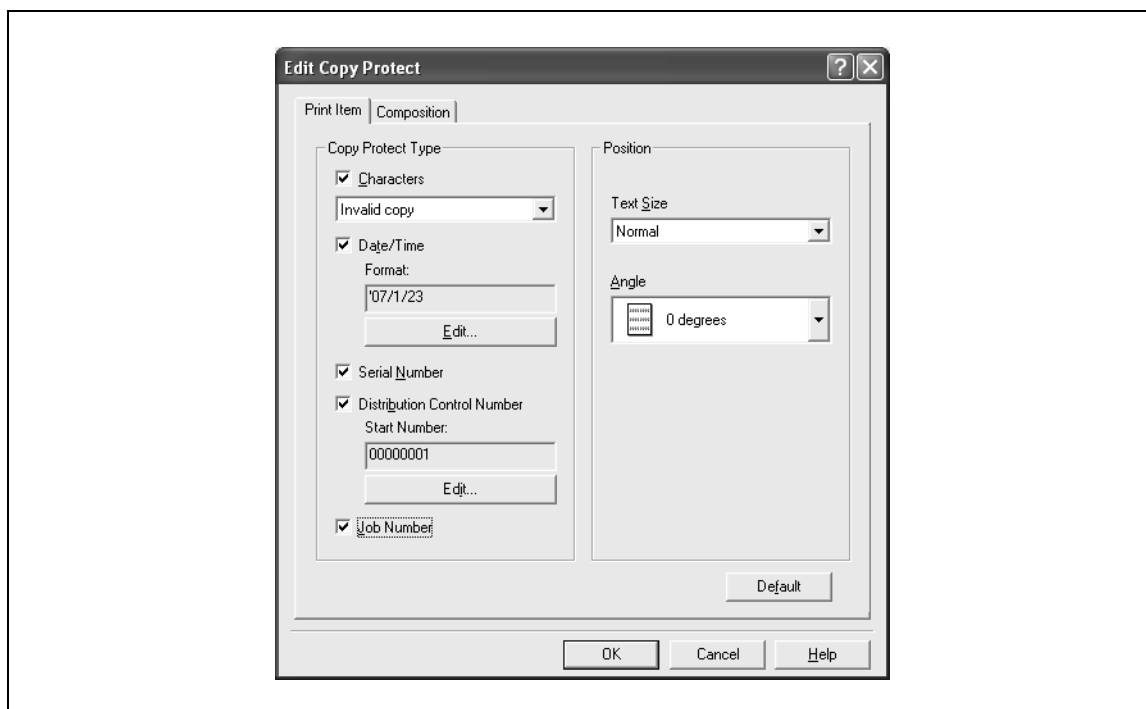
For Windows Vista x64, "Watermark" cannot be selected with any of the following functions at the same time: User Authentication, Account Track, Per Page Setting, Verify Authentication settings before printing, Popup Authentication Dialog when printing

Editing watermark

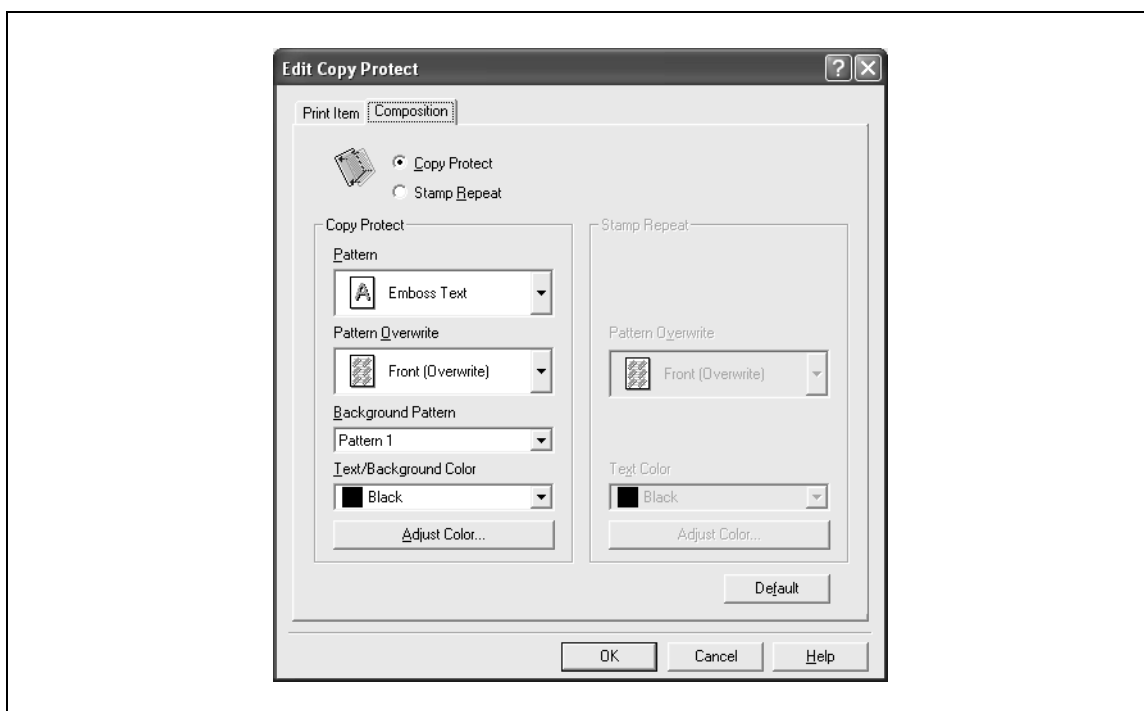


Function name	Description
Watermark Name	Enter the name of the watermark.
Watermark Text	Enter the text to be printed as the watermark.
[Add]	Click to create a new watermark.
[Delete]	Click to delete the selected watermark.
Position	Specifies the vertical and horizontal positions. The watermark position 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.
Text Color	Specifies the watermark text color.
Transparent	Prints the watermark as a transparent image.
1st Page Only	Prints the watermark on the first page only.
Repeat	Prints the watermark repeatedly on a single page.
Sharing	Specifies whether to register the watermark as public or private.

Editing copy protect



Function name	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.
Text Size	Specifies the text size of a pattern.
Angle	Specifies the pattern angle.



Function name	Description
Copy Protect	Embeds a hidden pattern that appears on copies.
Stamp Repeat	Prints a text pattern.

The following settings are available when "Copy Protect" is selected.

Function name	Description
Pattern	Specifies the embedding method of a pattern.
Pattern Overwrite	Specifies the order for printing a pattern on the original.
Background Pattern	Specifies the pattern background.
Text/Background Color	Specifies the color of the pattern. The density and color contrast can be specified by clicking the [Adjust Color] button.

The following settings are available when "Stamp Repeat" is selected.

Function name	Description
Pattern Overwrite	Specifies the order for printing a pattern on the original.
Text Color	Specifies the color of the pattern. The density and color contrast can be specified by clicking the [Adjust Color] button.

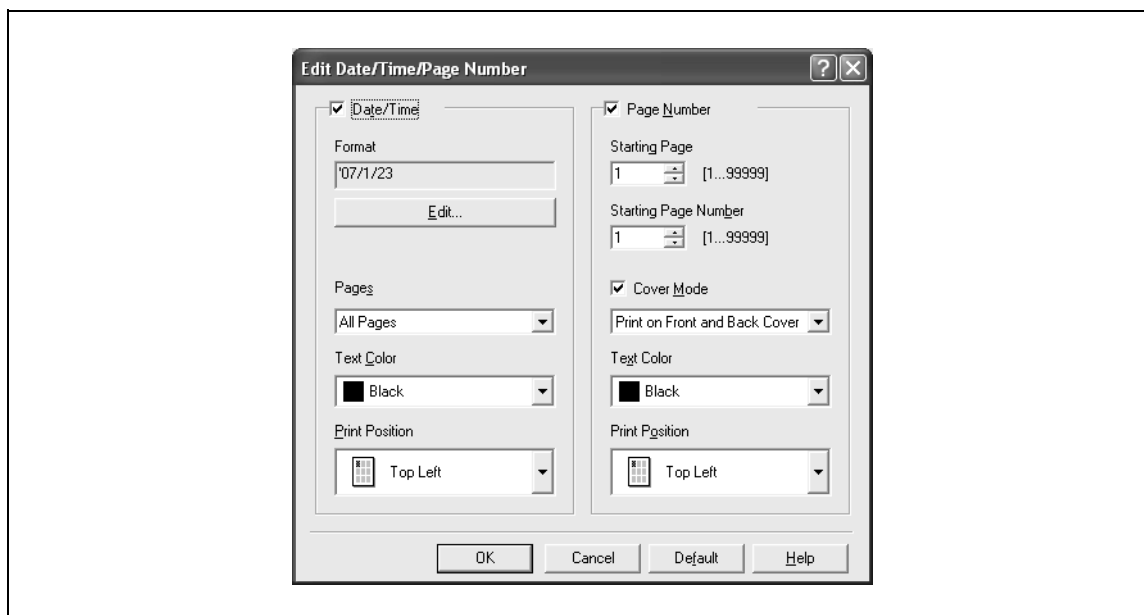


Note

"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



Function name	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	Specifies the pages to print the date and time.
Text Color	Specifies the text color used for printing.
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.
Text Color	Specifies the text color used for printing.
Print Position	Specifies the print position.

8.4.6 Quality tab



Function name	Option	Description
Select Color	Full Color, Gray Scale, 2 Color	Specifies the color to be printed.
Quality Adjustment	—	Adjusts the image quality. You can select "Simple" to adjust entire documents or "Detail" to adjust the text, photos, figures, tables, and graphs in the original.
Color Settings	Document, Photo, DTP, Web, CAD	Prints with a quality suitable for the selected original document. Document: Prints with a quality suitable for documents with many characters. Photo: Prints with a quality suitable for photos. DTP: Prints with a quality suitable for documents produced using DTP. Web: Prints with a quality suitable for Web page printing. CAD: Prints with a quality suitable for CAD data printing.
Resolution	—	Indicates the resolution. You may not change this item.
Pattern	Fine, Coarse	Specifies the graphic pattern details.
Image Compression	Best Quality (quality priority), Maximum Compression (speed priority)	Specifies the compression ratio for a graphic image.
Glossy Mode	ON/OFF	Prints using a gloss finish.
Toner Save	ON/OFF	Controls the print density and saves the toner consumption.
Edge Enhancement	ON/OFF	Highlights the edge of characters, graphics and images to make small characters more visible. You can specify it when "Gray Scale" is selected for the color.
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**

"2 Color" option of the "Select Color" is only for the PCL driver. "2 Color" option allows you to specify a combination of two colors.

The "Pattern" and "Image Compression" functions are only for the PCL driver.

The PS driver allows you to manage the profile through "Quality Adjustment". For details, refer to "ICC profile settings" on page 11-33.

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.
Check Driver Version	—	Displays the printer driver version information.

**Note**

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

"Excel Job Control" and "Remove White Background" settings are not available for Windows XP Professional x64, Windows Vista x64 and Windows Server 2003 x64.

"Excel Job Control" can be changed only when the printer driver setting dialog is displayed in the "Printers" ("Printers and Faxes" for Windows XP/Server 2003) window.



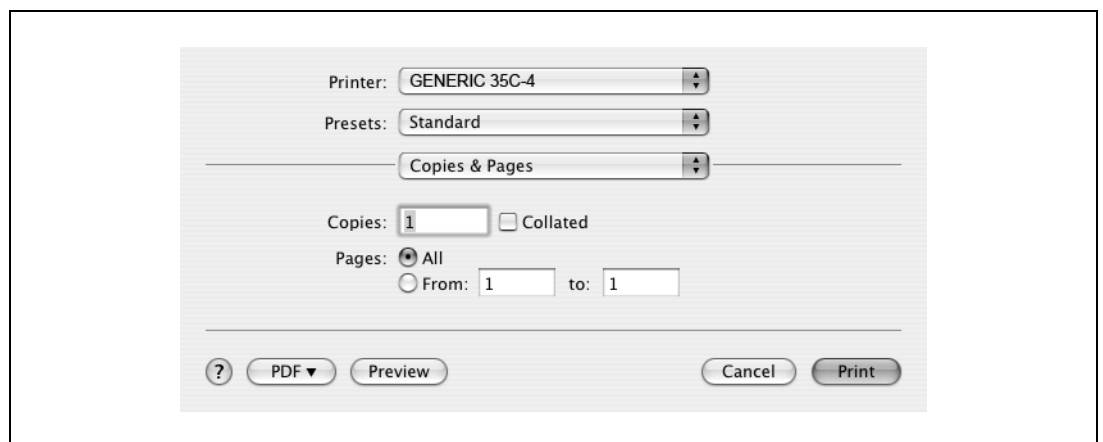
Print function of Mac OS X

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)" on page 5-4, and "Selecting and connecting the printer (OS 10.2 and 10.3)" on page 5-8.
 - 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.



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.

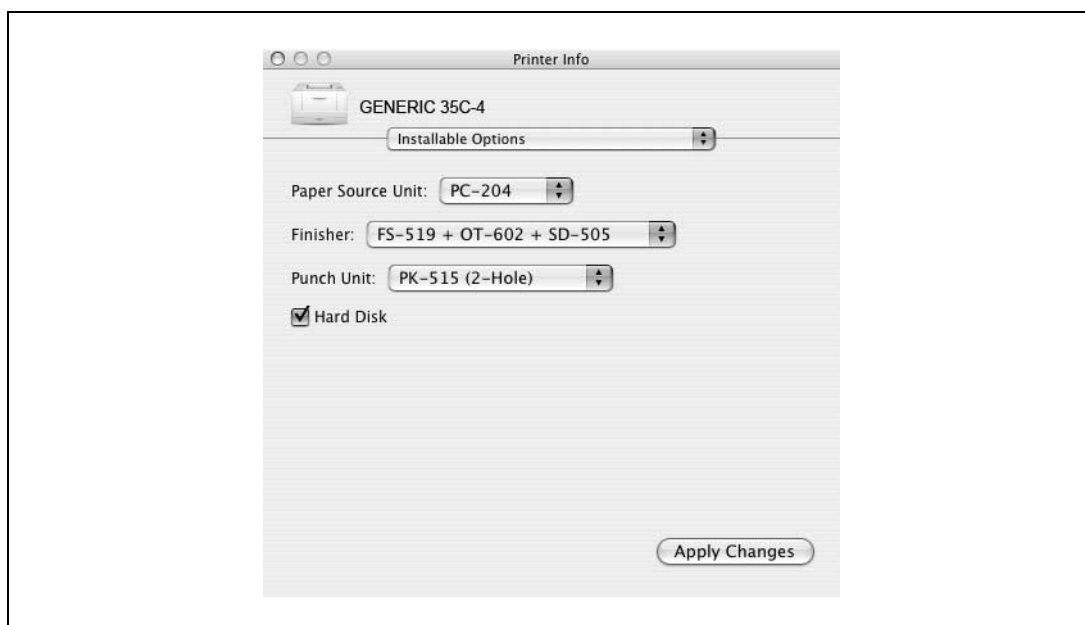


Reminder

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 [Printer Setup Utility] (or [Print Center]) located in "Applications" - "Utilities" of "Hard Disk", and then select this machine.
- 2 From the [Printer] menu, select "Show Info".
The "Printer Info" dialog box appears.
- 3 Select "Installable Options".
- 4 Select the options that are installed on this machine.



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

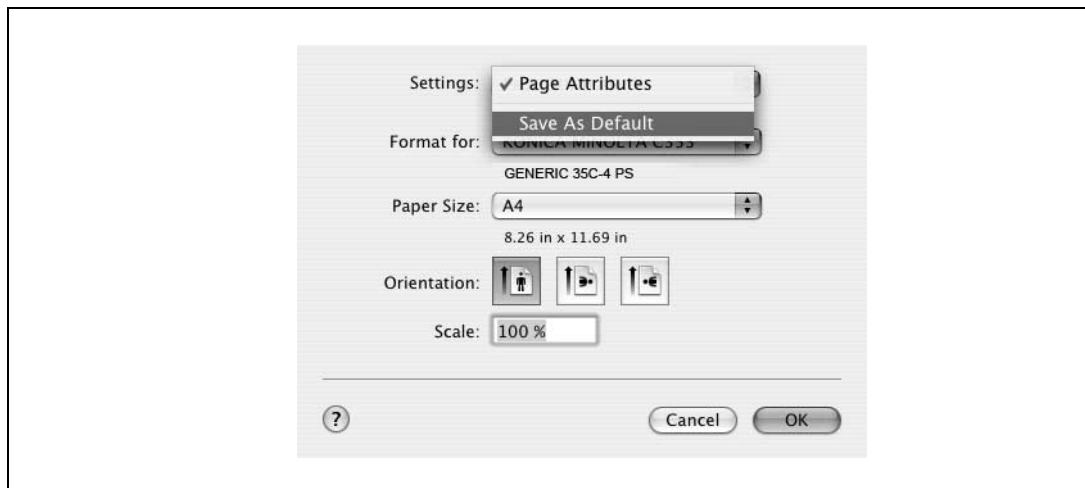
9.2.2 Registration of the default settings

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.

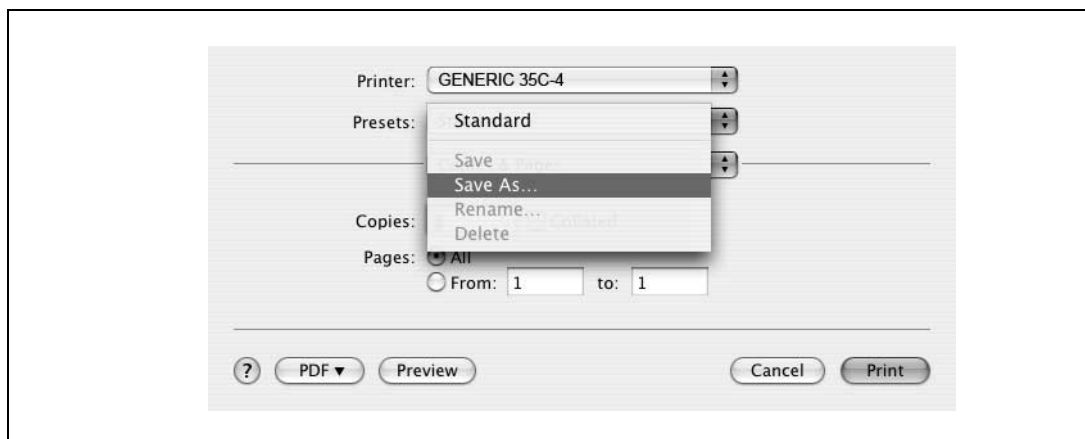
To register the settings, save the settings in the printer driver setting.

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.

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



- 2 In the "Print" dialog box, select "Presets" and save the printer driver functions by selecting "Save As".
 - When use this setting, select from "Presets".

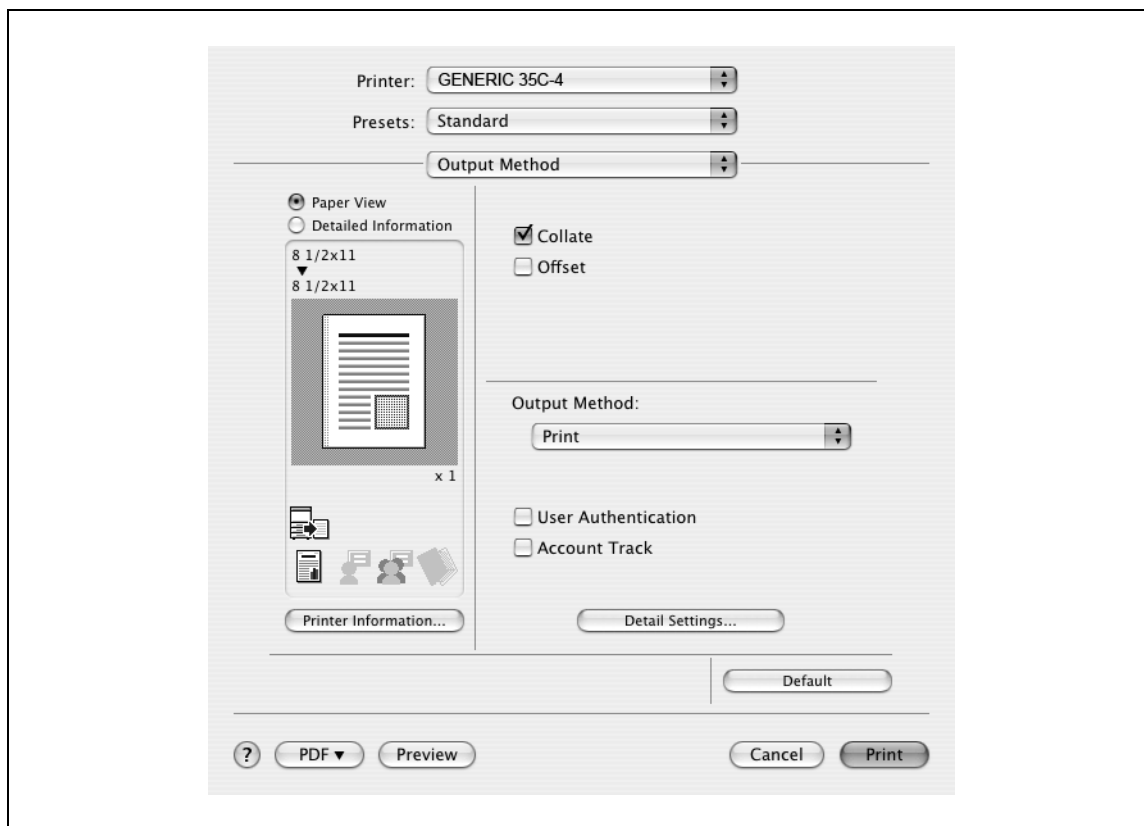


Detail

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.
? (Help)	Click this button to display the help for each item on the currently displayed dialog box.
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.



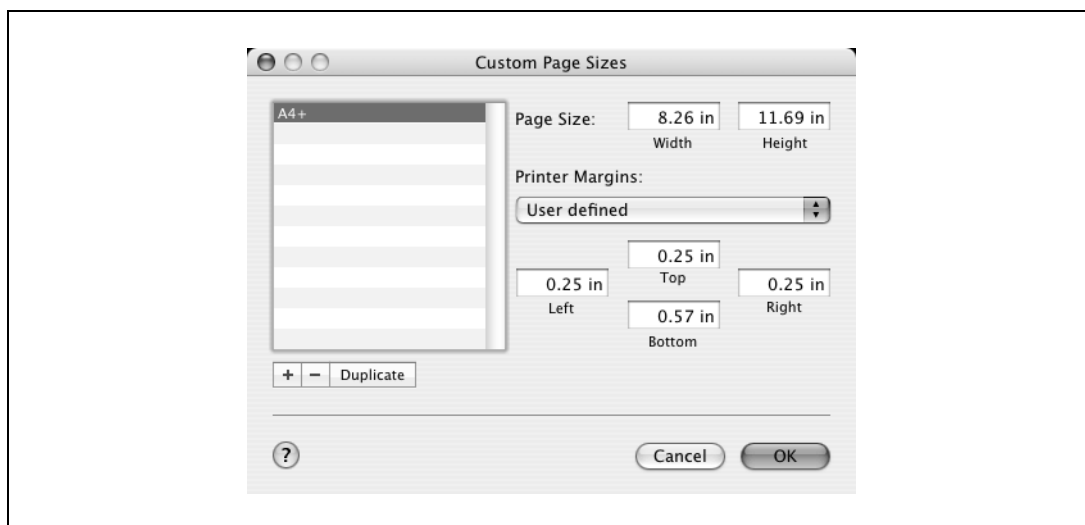
Detail

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

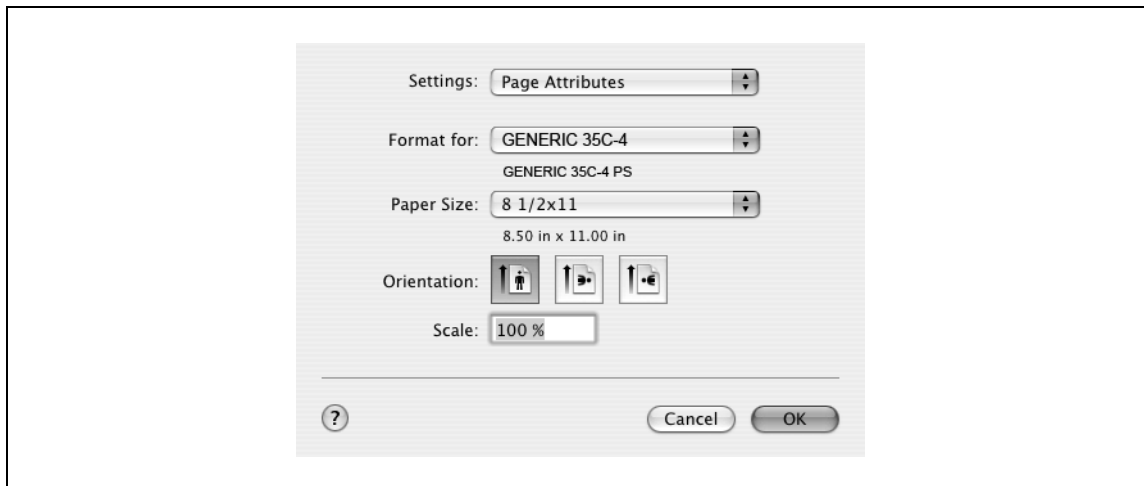
This saves the custom paper size, which can be selected from the Paper Size drop-down list that is displayed when "Page Attributes" is selected.

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

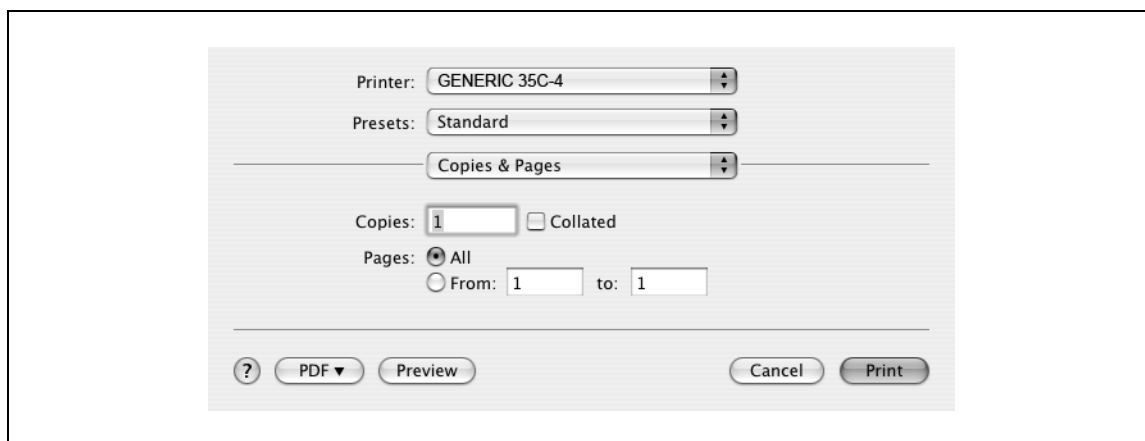
The paper size "12 × 18" is equivalent to 304.8 × 457.2 mm which is slightly larger than A3.

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.

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 × 11 size data on 11 × 17 size paper, specify "8 1/2 × 11W" as the paper size and "Bypass Tray" as the paper tray with the printer driver. To print, set 11 × 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 × 11W" from [Change Size] and enter 11 × 17 sizes.

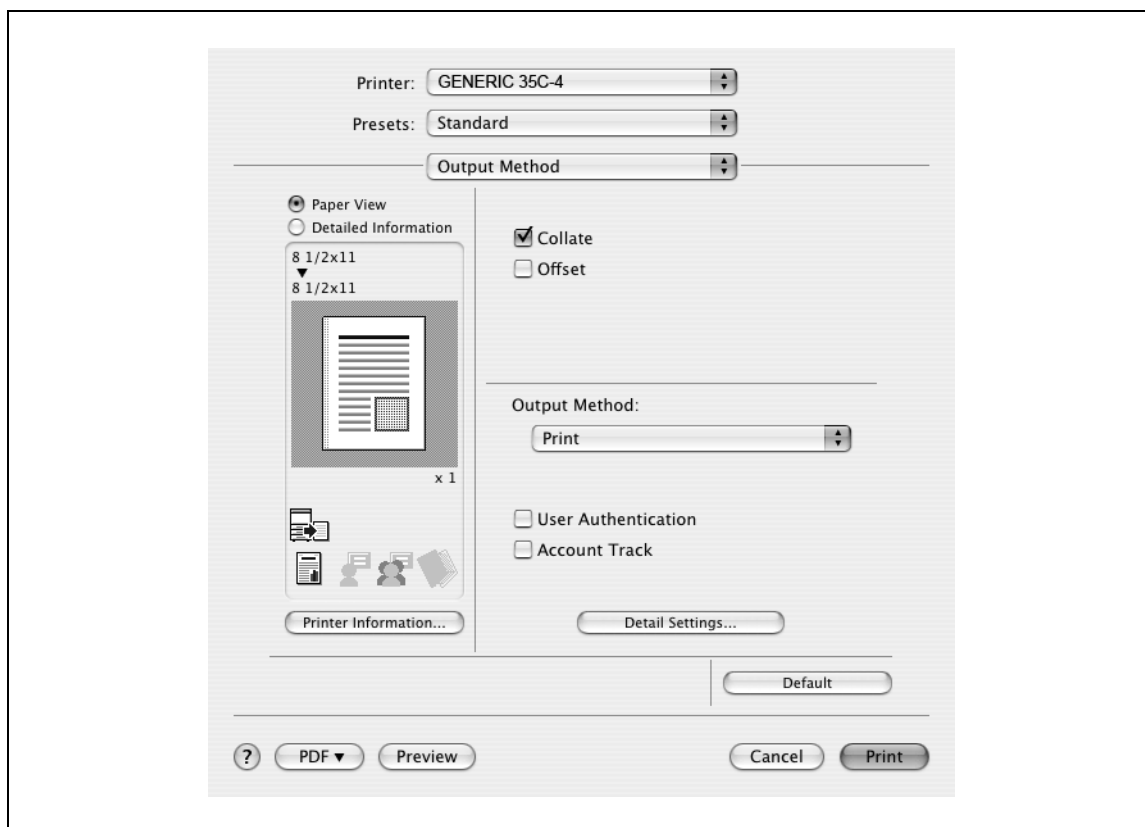
9.5.2 Copies & Pages

→ In the [File] menu, select "Print".



Function name	Option	Description
Copies	1 to 999	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.

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.
[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 division 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.



Function name	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 key.



Function name	Description
Popup Authentication Dialog when printing	Displays the User Authentication and Account Track 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 key for the entered characters is automatically created, which is to be used for communication with this machine.



Note

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

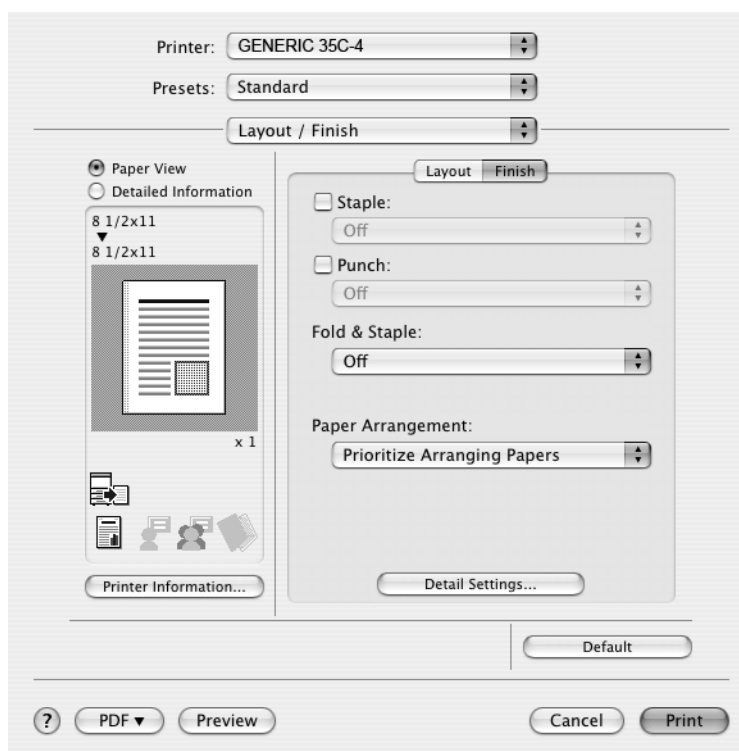
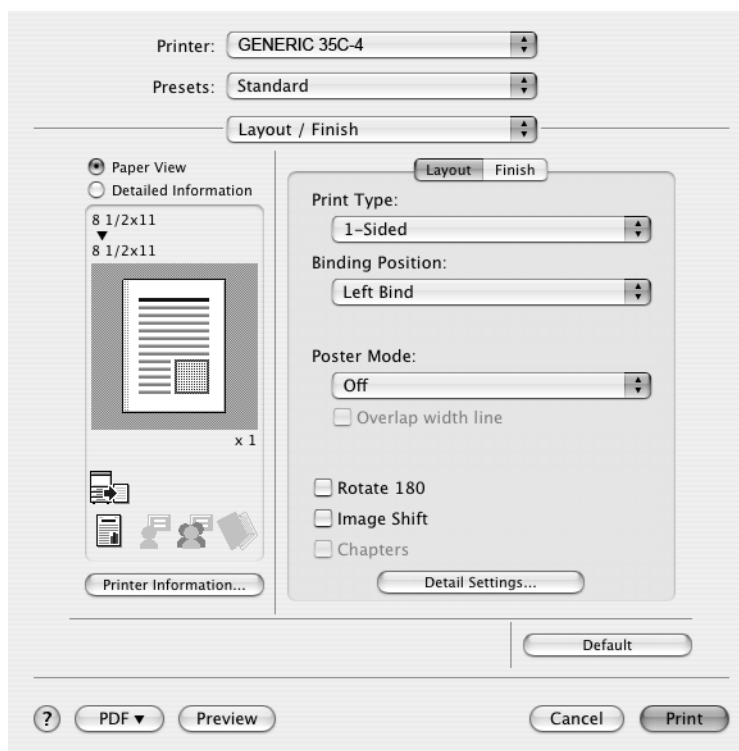


Detail

For the procedure for specifying "Encryption Passphrase" to be defined by the user, refer to "Specifying a user-defined encryption passphrase" on page 11-28.

9.5.4 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.
Poster Mode	2 × 2, 3 × 3, 4 × 4	Prints one sheet of an original divided on multiple pages. "Poster Mode Overlap" allows you to specify the presence of the border frame.
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	Specifies to half fold and center staple.
Paper Arrangement	Finishing Priority, productivity priority	Specifies the method for adjusting the binding position for 2-sided print. The binding position is adjusted after receiving all data for finishing priority. When Productivity Priority is specified, the machine processes data reception and printing concurrently.

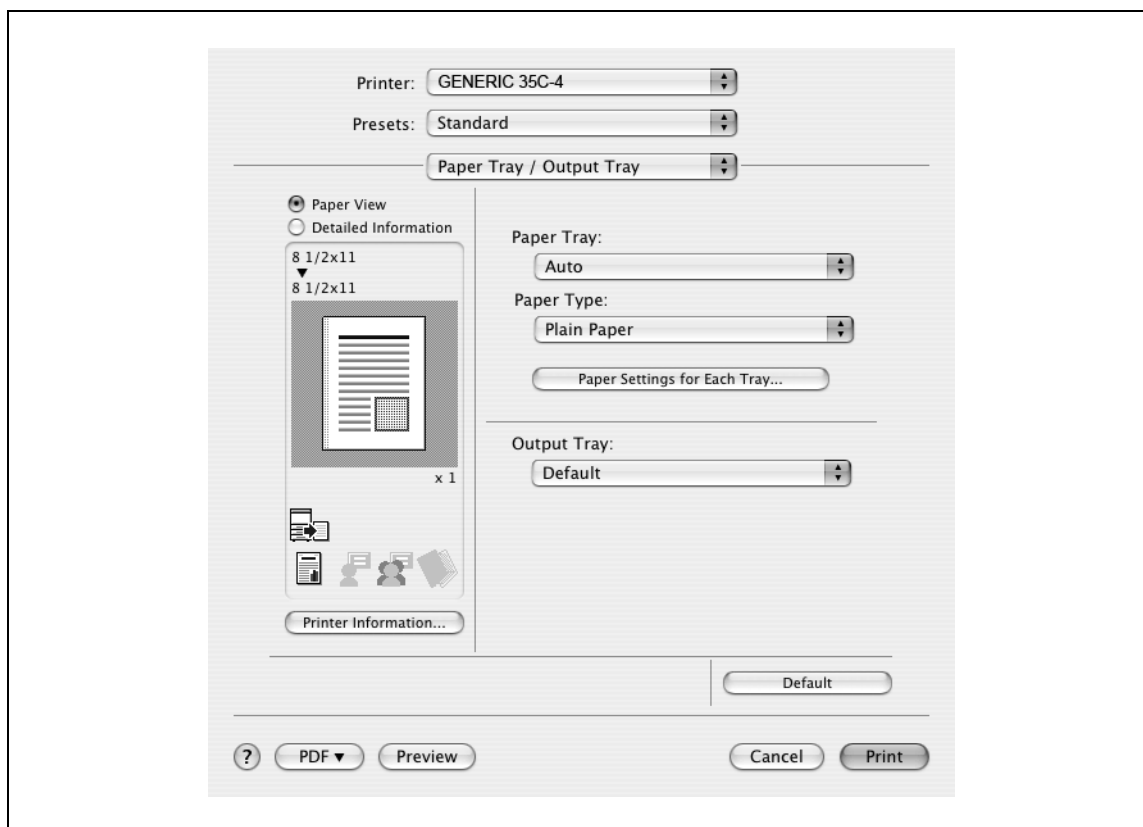


Note

"Staple" and "Saddle Stitch/Fold" functions are available only if the optional finisher is installed.

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

9.5.5 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, tray 1-3, pin 5-6	Specifies the tray where to output the printed pages. The selectable items differ depending on the options that are installed.

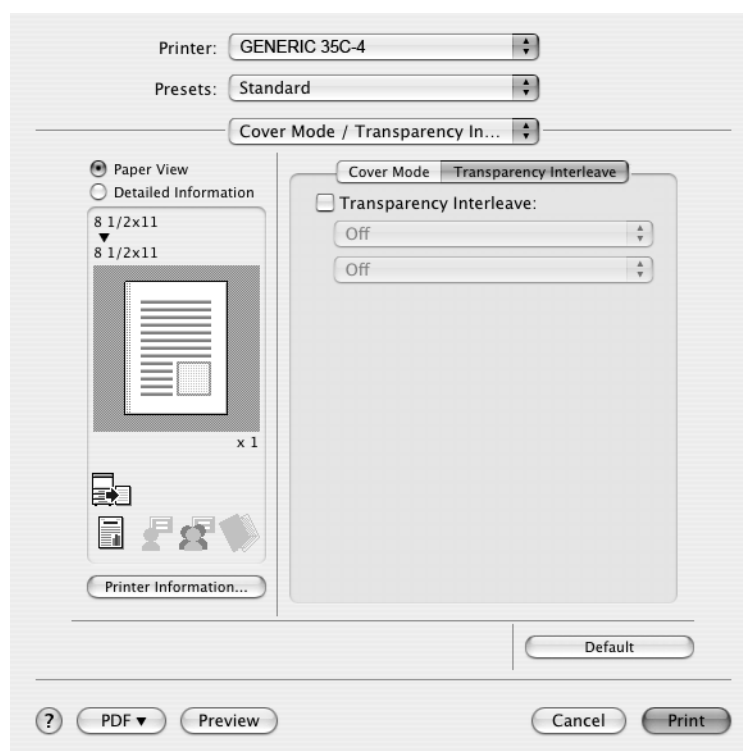
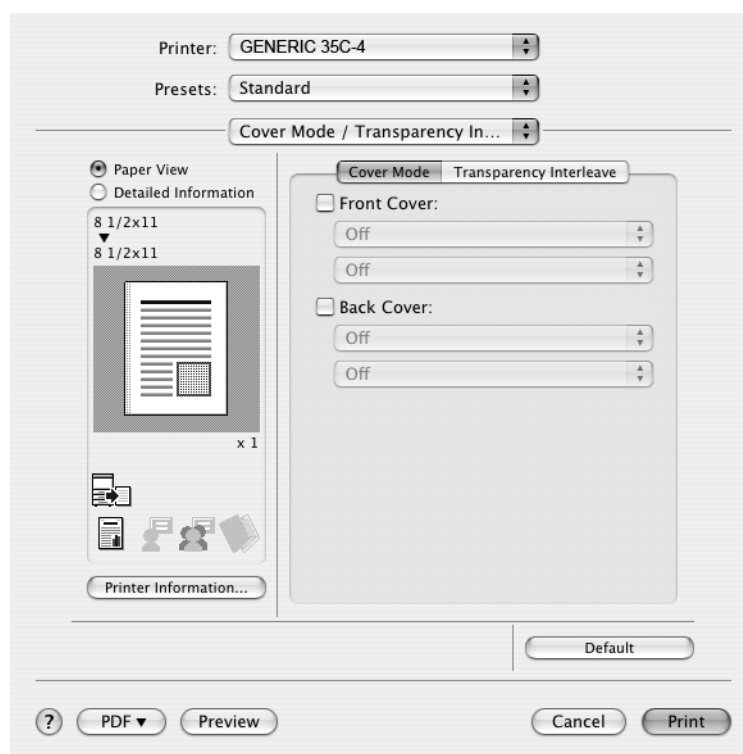


Note

Specify "Duplex Side 2" to print on the back side of a page.

9.5.6 Cover Mode/Transparency Interleave

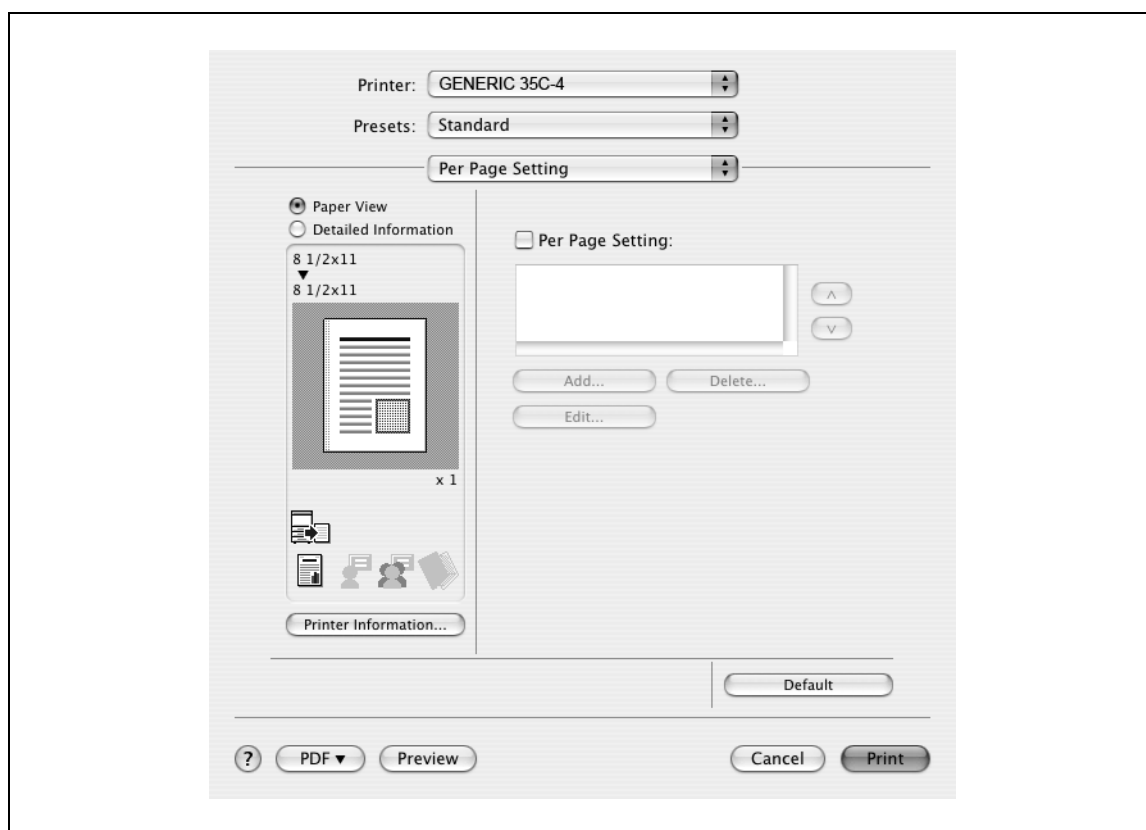
You can switch between the Cover Mode dialog box and the Transparency Interleave dialog box.



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, manual paper feed	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, manual paper feed	Selects the paper tray for the back cover page. The selectable items differ depending on the options that are installed.
Transparency Inter-leave	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.

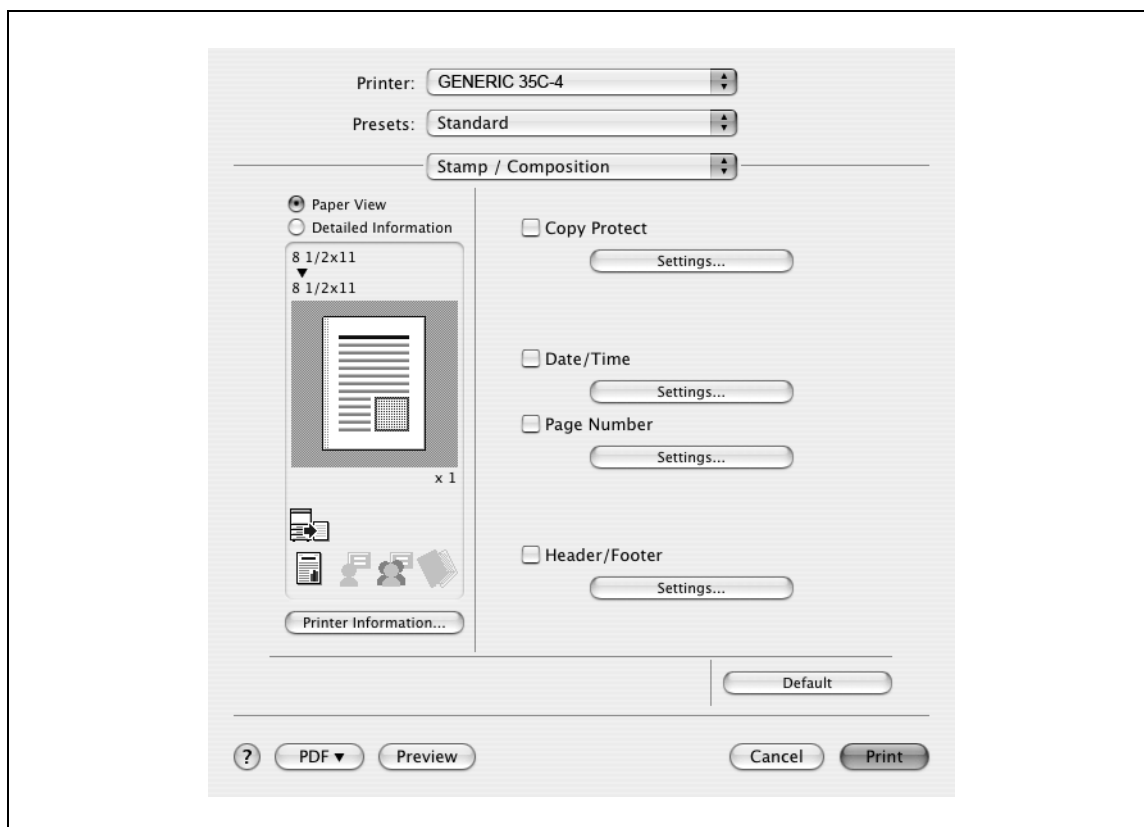
9.5.7 Per Page Setting

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.



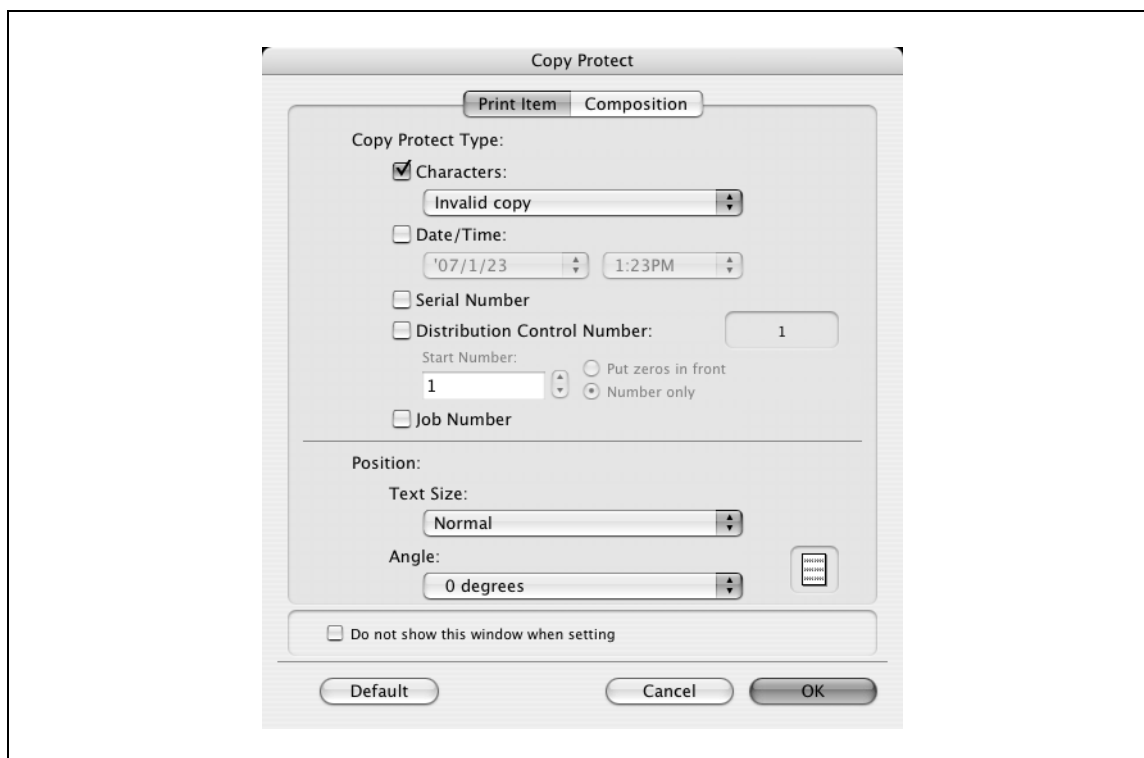
Function name	Option	Description
Per Page Setting	ON/OFF	Inserts paper between pages and switches the paper and tray for each page.
[Add]	—	Creates a conditioned list.
[Delete]	—	Deletes the list.
[Edit]	—	Edits the conditioned list.

9.5.8 Stamp/Composition

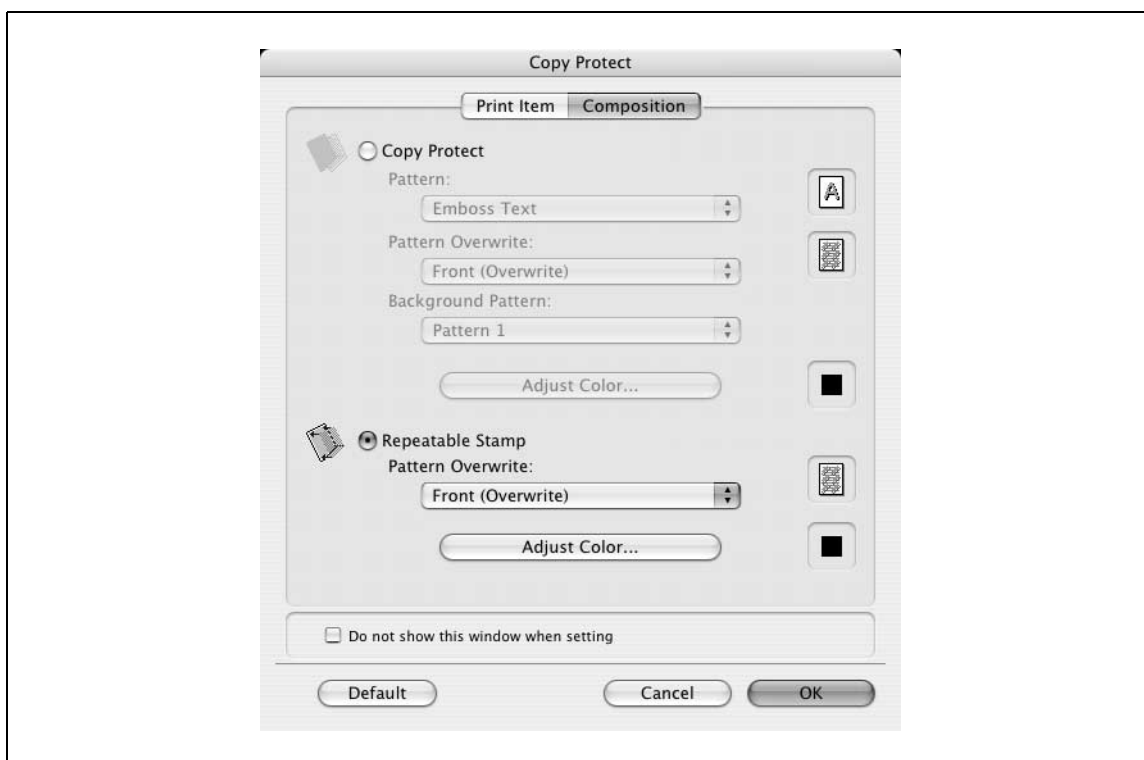


Function name	Option	Description
Copy Protect	ON/OFF	Prints a special pattern to prevent copying. You can specify items, positions and the composition to be printed by clicking the [Settings] button.
[Settings]	—	For details, refer to "Editing copy protect" on page 9-19.
Date/Time	ON/OFF	You can print 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 9-21.
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 9-21.
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 9-22.

Editing copy protect



Function name	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.
Text Size	Specifies the text size of a pattern.
Angle	Specifies the pattern angle.



The following settings are available when "Copy Protect" is selected.

Function name	Description
Copy Protect	Embeds a hidden pattern that appears on unauthorized copies.
Pattern	Specifies the embedding method of a pattern.
Pattern Overwrite	Specifies the order for printing a pattern on the original.
Background Pattern	Specifies the pattern background.
Adjust Color	Specifies the color of the pattern.

The following settings are available when "Repeatable Stamp" is selected.

Function name	Description
Repeatable Stamp	Prints a text pattern.
Pattern Overwrite	Specifies the order for printing a pattern on the original.
Adjust Color	Specifies the color of the pattern.

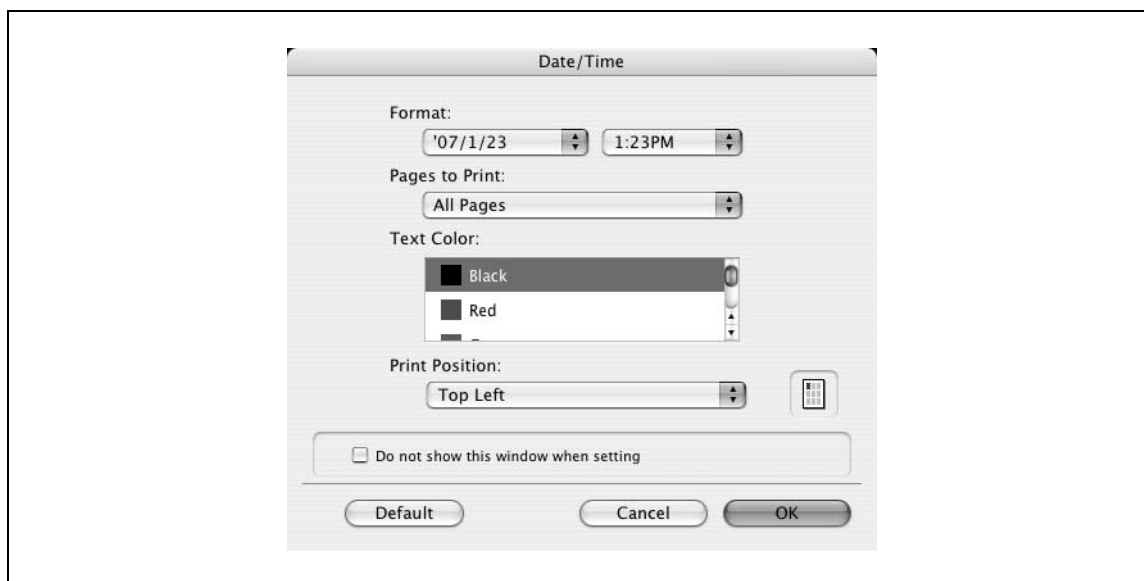


Note

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

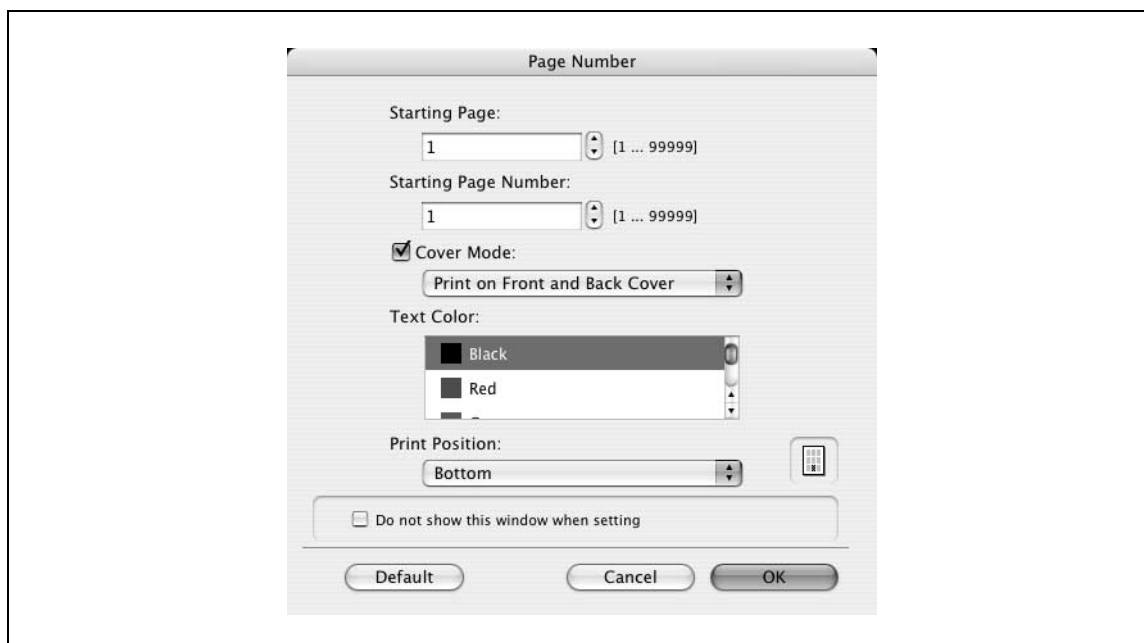
Different setting items are available for "Copy Protect" and "Repeatable Stamp".

Editing date/time



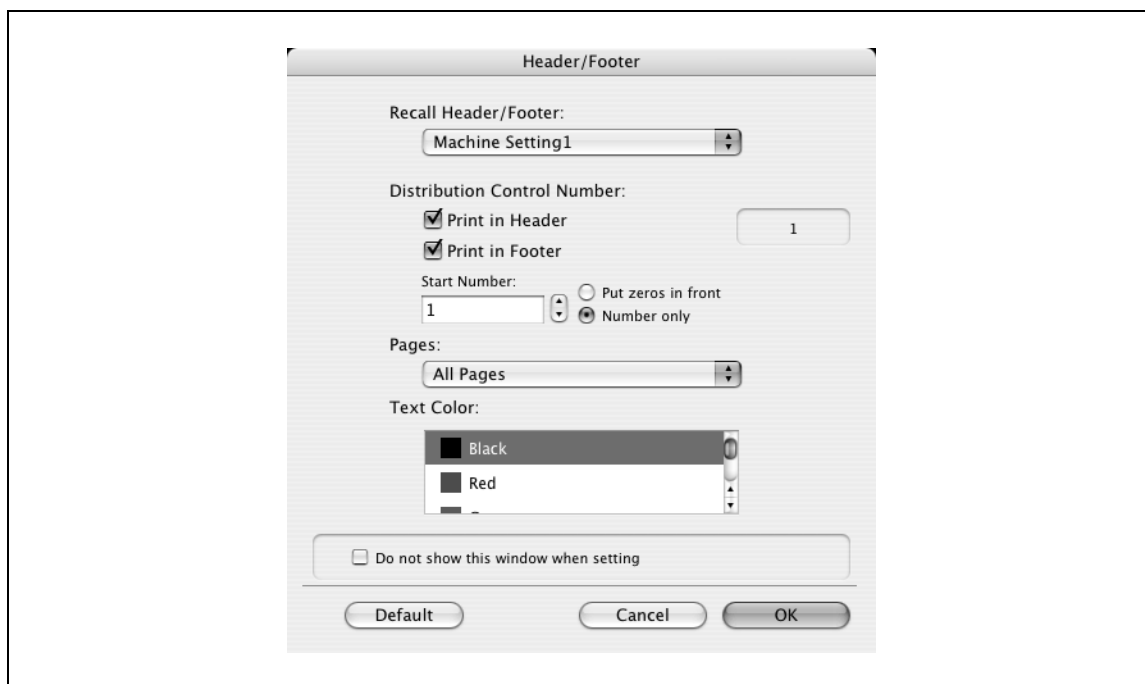
Function name	Description
Format	Displays the format for the date and time to be printed.
Pages	Specifies the pages to print the date and time.
Text Color	Specifies the text color used for printing.
Print Position	Specifies the print position.

Editing page number



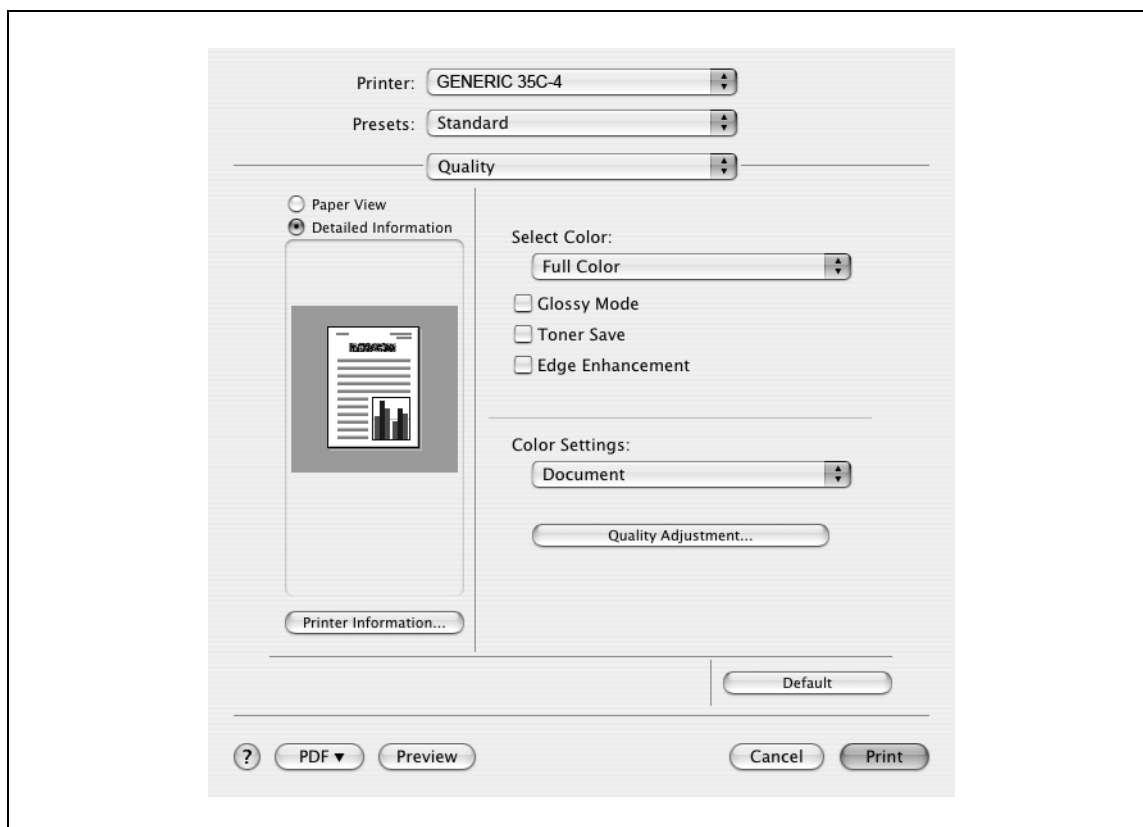
Function name	Description
Starting Page	Specifies the page to start printing the page number.
Starting Page Number	Specifies the start number for printing the page number.
Cover Mode	If cover pages are attached, specifies whether to print the page number on the front cover page or the back cover page.
Text Color	Specifies the text color used for printing.
Print Position	Specifies the print position.

Editing header/footer



Function name	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.
Text Color	Specifies the text color used for printing.

9.5.9 Quality



Function name	Option	Description
Select Color	Full Color, Gray Scale	Specifies the color to be printed.
Glossy Mode	ON/OFF	Prints using a gloss finish.
Toner Save	ON/OFF	Controls the print density and saves the toner consumption.
Edge Enhancement	ON/OFF	Highlights the edge of characters, graphics and images to make small characters more visible. You can specify it when "Gray Scale" is selected for the color.
Color Settings	Document, photo, DTP, Web, CAD	Prints with a quality suitable for the selected original document. Document: Prints with a quality suitable for documents with many characters. Photo: Prints with a quality suitable for photos. DTP: Prints with a quality suitable for documents produced using DTP. Web: Prints with a quality suitable for Web page printing. CAD: Prints with a quality suitable for CAD data printing.
Quality Adjustment	—	Adjusts the image quality. You can select "Simple" to adjust entire documents or "Detail" to adjust the text, photos, figures, tables, and graphs in the original. You can also manage the profile.



Detail

For details on profile management, refer to "ICC profile settings" on page 11-33.

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

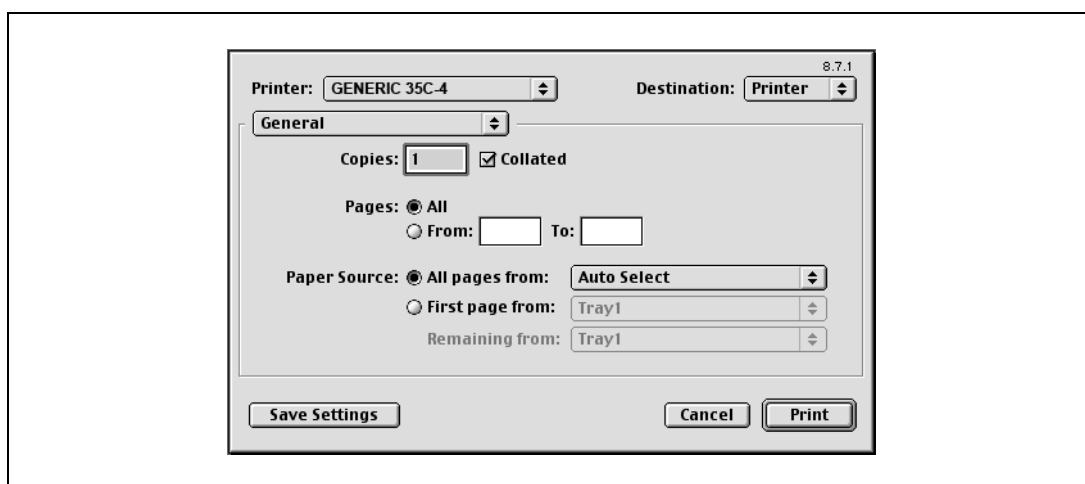
Print function of Mac OS 9.2

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 5-12.
 - 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.



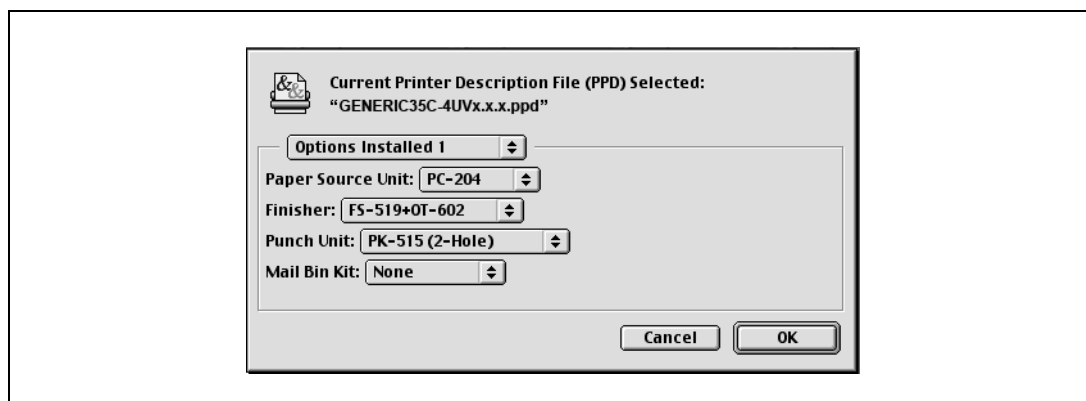
Reminder

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 5-12.

10.2.2 Registration of the default settings

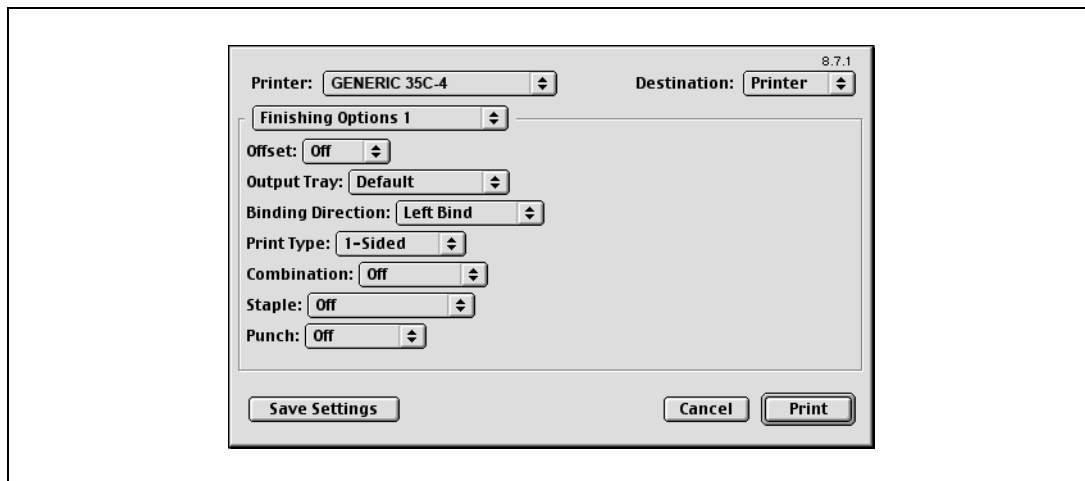
The settings specified for the functions of this machine when printing can only be applied while using the application. When the application is quit, the settings return to their default settings.



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.

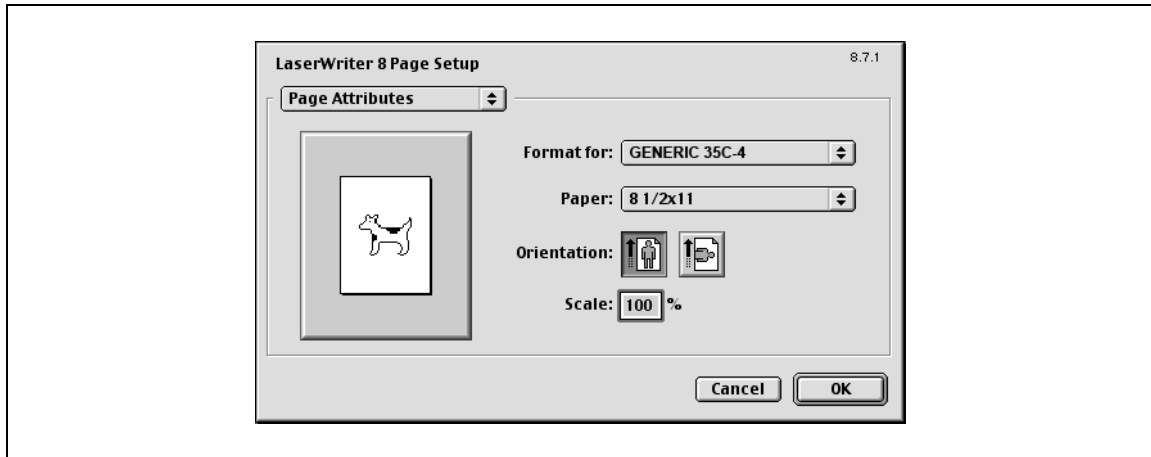
The "General" settings on the Print dialog box cannot be saved.

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").



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



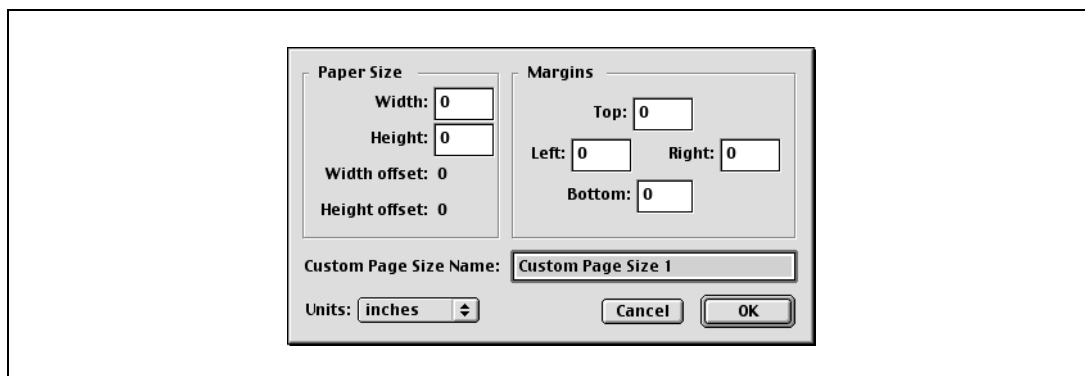
Note

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 the [Add] button.
- 4 Specify settings for the following:
 - Paper size: Specifies the intended paper size.
 - Printer 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.
 - Unit: Selects the specified unit.

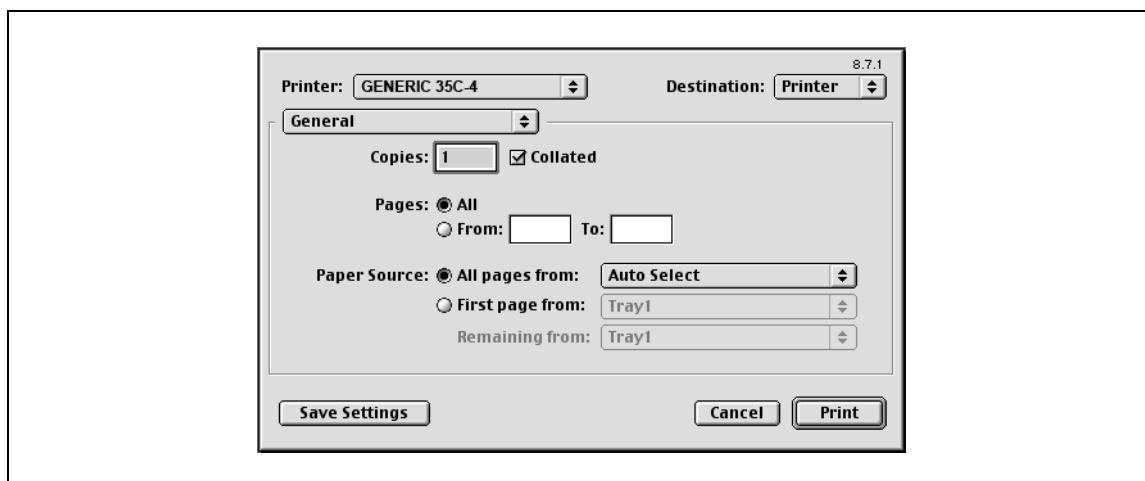


- 5 Click the [OK] button.

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

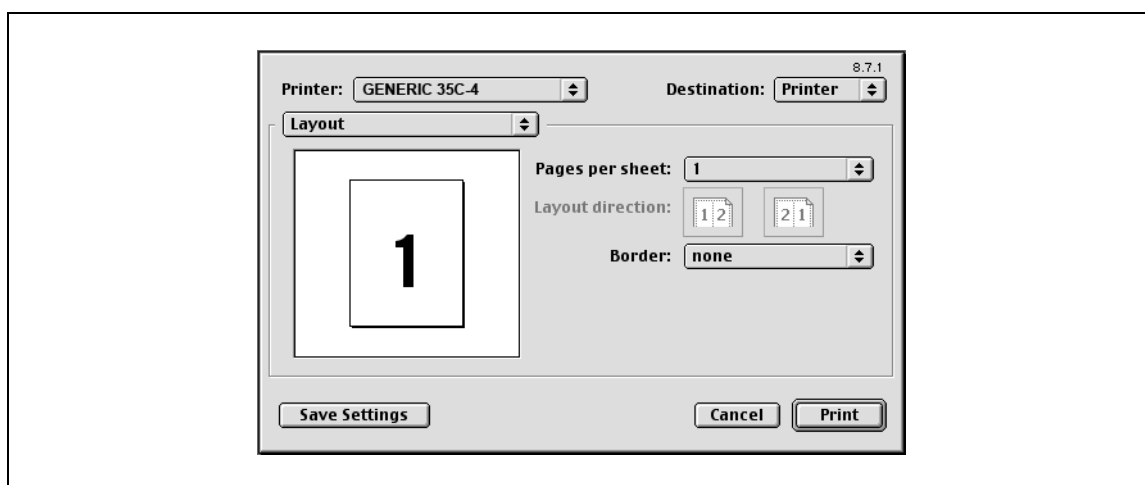
→ In the [File] menu, select "Print".



Function name	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)

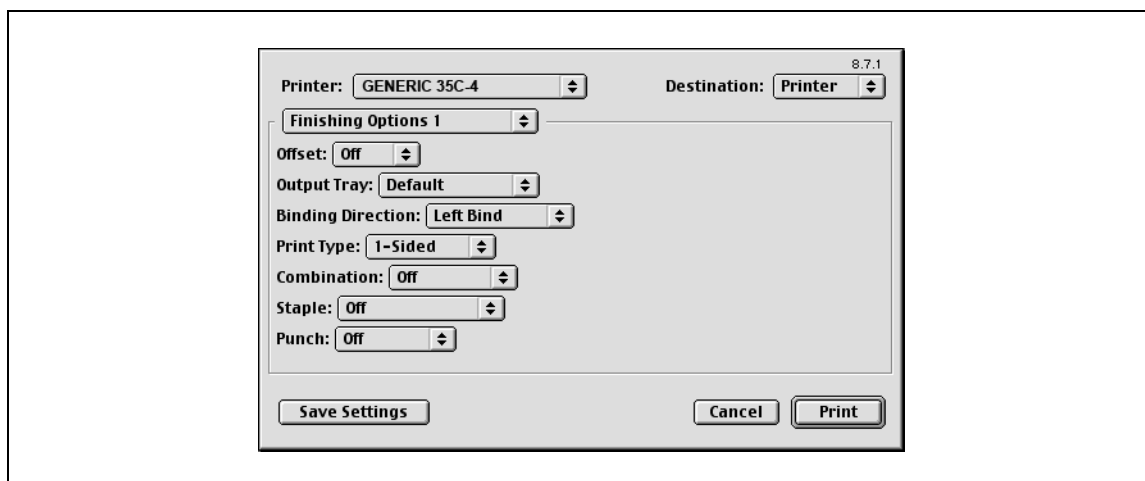
→ Specify to print multiple pages on one page.



Function name	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 5)

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



Function name	Description
Offset	Specifies offset.
Output Tray	Selects the output tray.
Binding Direction	Selects the binding direction.
Print Type	Performs 2-sided printing.
Combination	Performs booklet printing.
Staple	Performs stapling.
Punch	Performs hole punching.
Fold	Performs folding.
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.
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.
Select Color	Specifies whether to print in color or gray scale.
Glossy Mode	Prints using a gloss finish.
Color Settings	Prints with a quality suitable for the original.
Color Matching (Text)	Adjusts the color quality of the text in a document.
Pure Black (Text)	Specifies whether to enable pure black of the text in a document.
Screen (Text)	Specifies screening of the text in a document.
Color Matching (Photo)	Adjusts the color quality of the photo in the original.
Pure Black (Photo)	Specifies whether to enable pure black of the photo in the original.
Screen (Photo)	Specifies screening of the photo in the original.
Smoothing (Photo)	Specifies smoothing of the photo in the original.

Function name	Description
Color Settings (Graphic)	Adjusts the color quality of a chart and graph in the original to the text or photo settings.
Smoothing (Graphic)	Adjusts smoothing of a chart and graph in the original to the text or photo settings.
Toner Save	Controls the print density and saves the toner consumption.
Edge Enhancement	Highlights the edge of characters, graphics and images to make small characters more visible. It can be specified when "Gray Scale" is selected for the color.

**Reminder**

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

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



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 four printer drivers support setup of this feature:

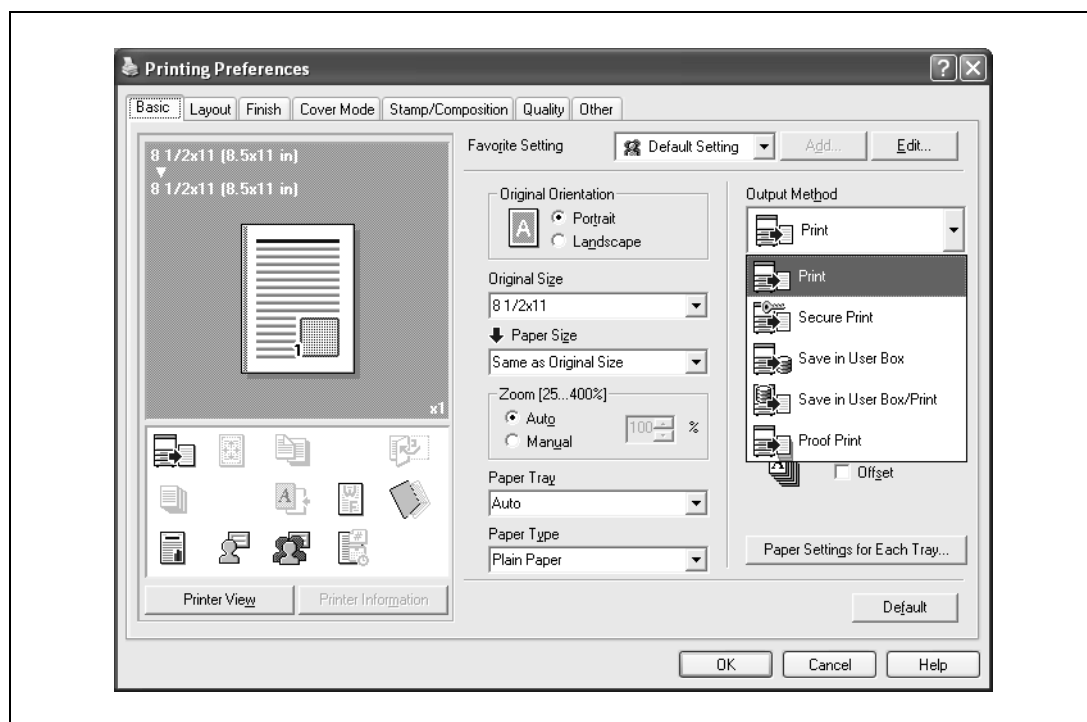
- PCL Printer Driver for Windows
- PostScript Printer Driver for Windows
- PostScript PPD Printer Driver for Mac OS X
- PostScript PPD Printer Driver for Mac OS 9.2

Print with following settings specified:

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

For Windows

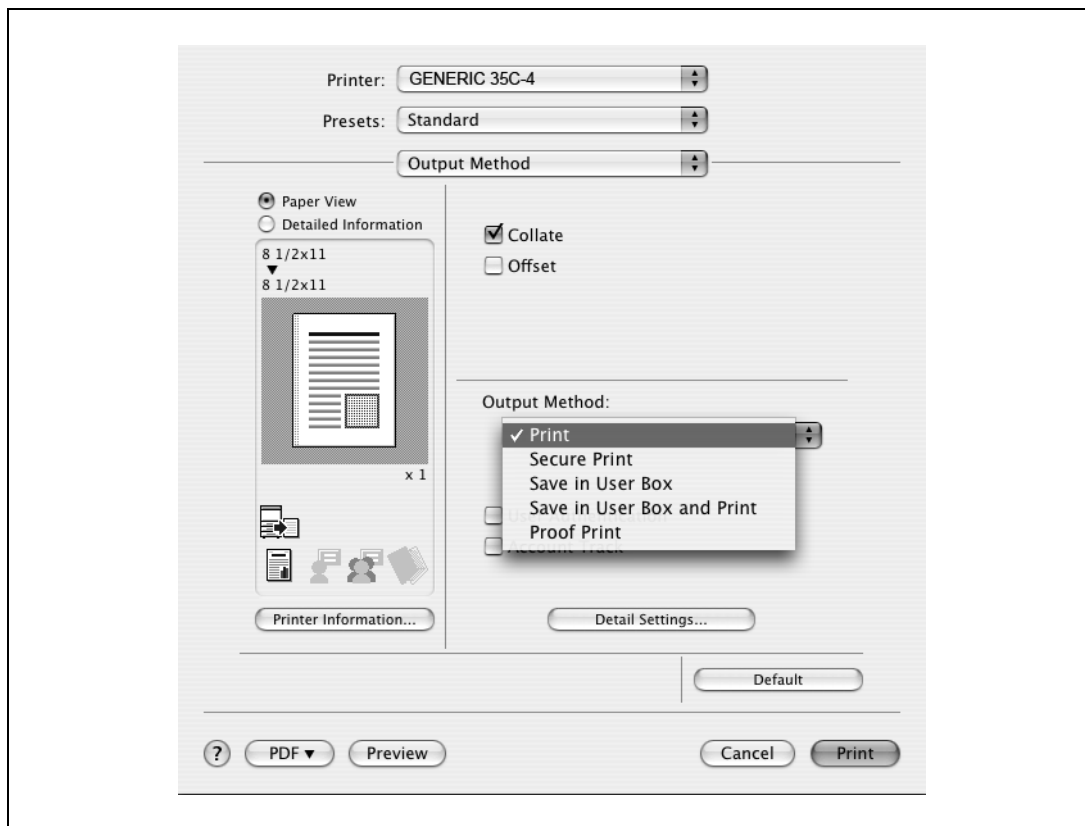
- 1 Click the Basic tab.
- 2 Select "Proof Print" from options under "Output Method".



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

For Macintosh OS X

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



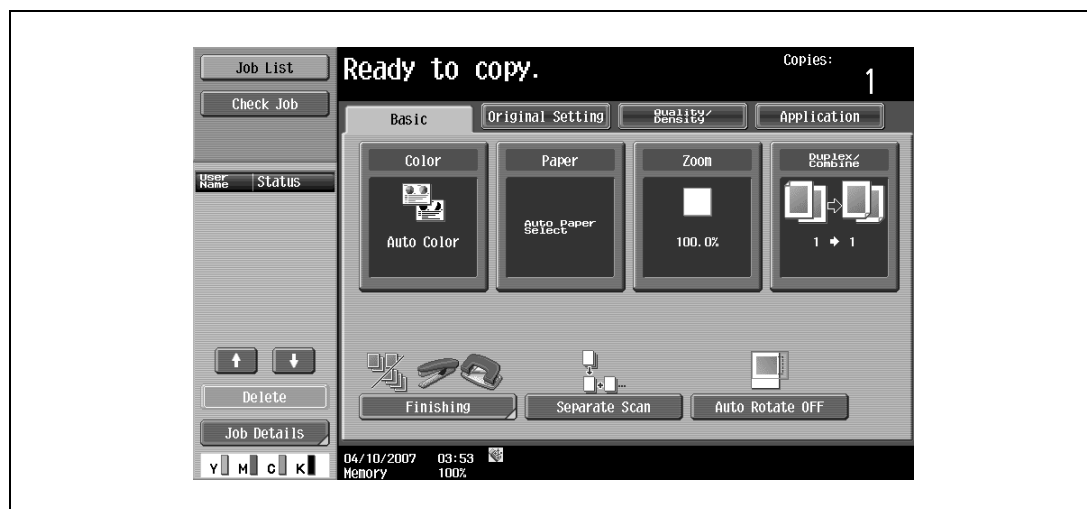
- 3 Specify the number of copies to be printed.
One copy is printed for checking.

**Note**

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

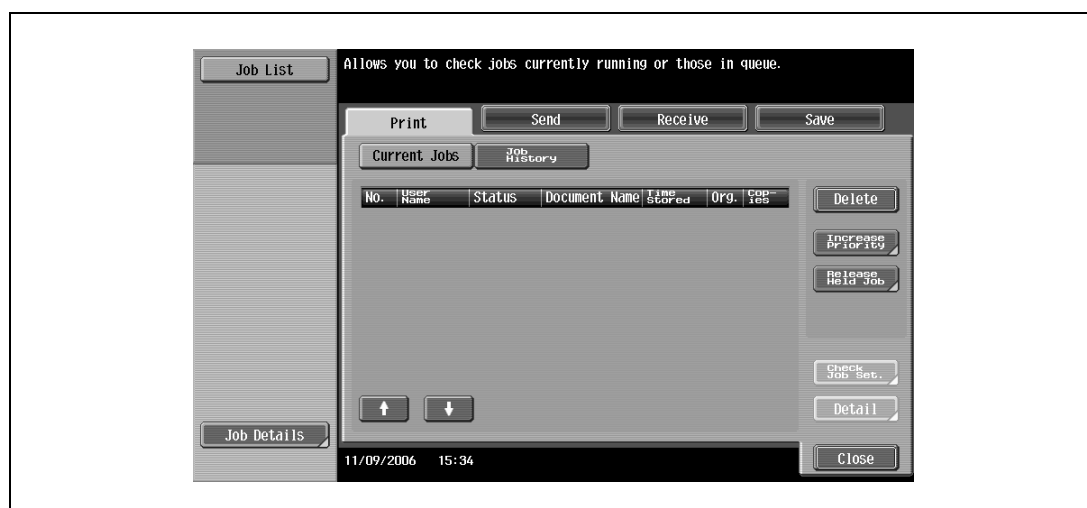
11.1.2 Recalling a job from the control panel

- 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.



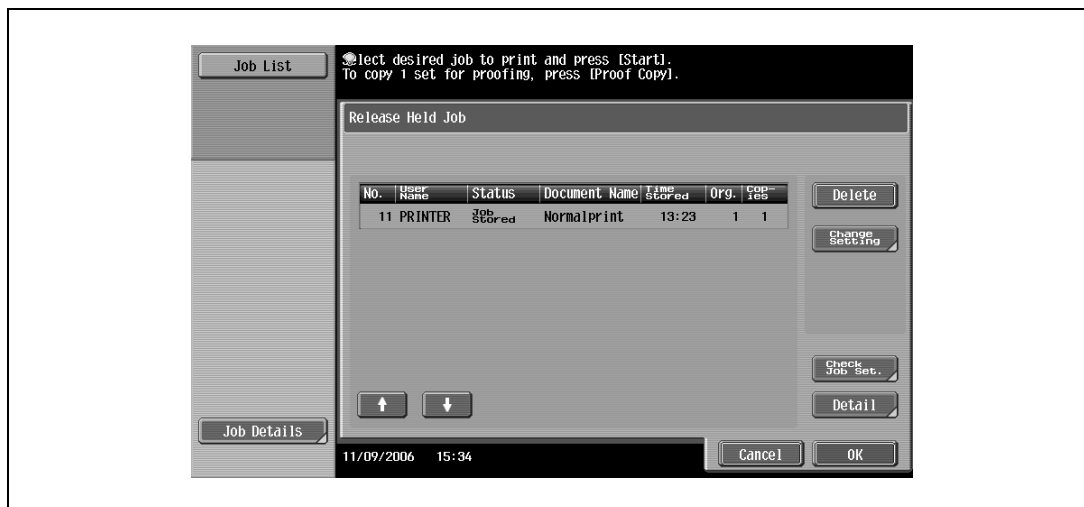
The Print screen appears.

- 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 three printer drivers support setup of this feature:

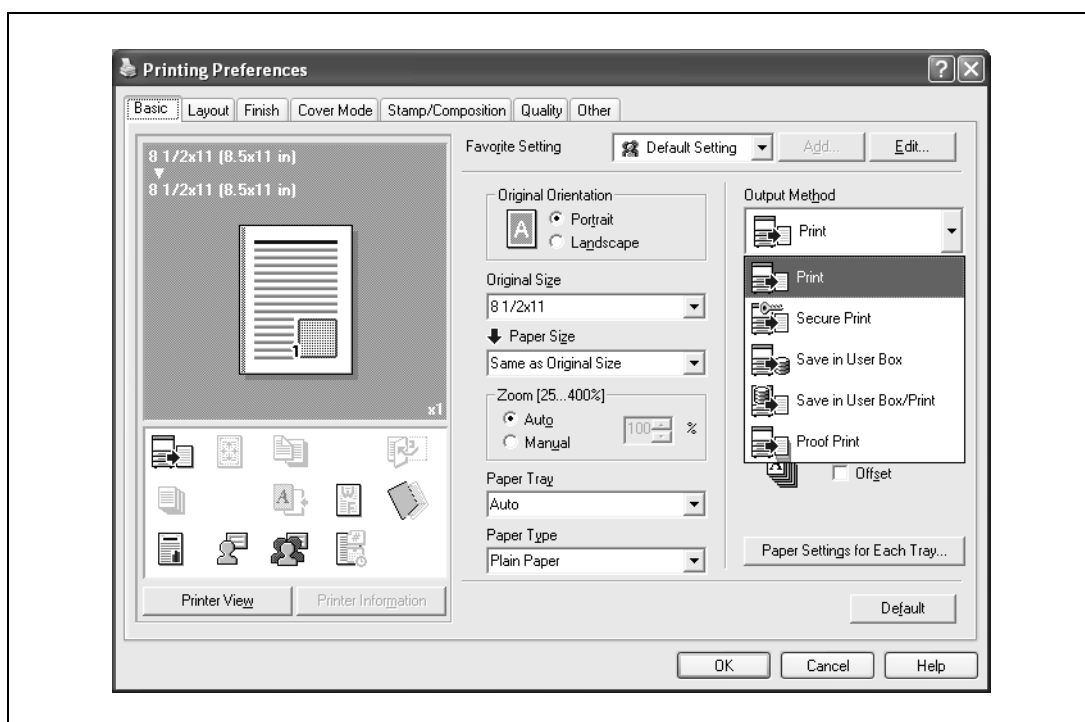
- PCL Printer Driver for Windows
- PostScript Printer Driver for Windows
- PostScript PPD Printer Driver for Mac OS X

Print with the following setting specified:

- Output Method: "Secure Print"

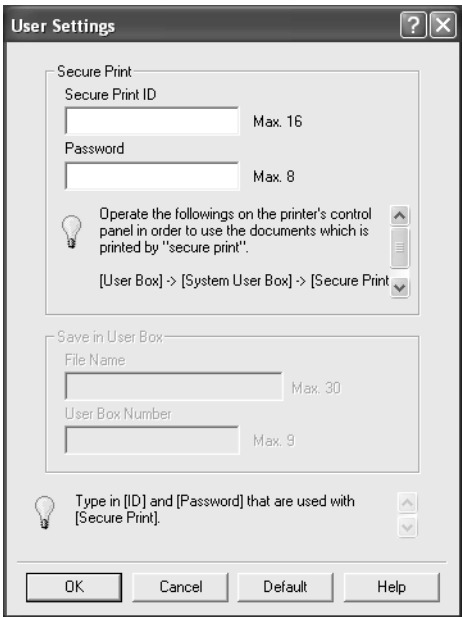
For Windows

- 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.



The image shows a 'User Settings' dialog box with the following sections:

- Secure Print**
 - Secure Print ID: [Text Field] Max. 16
 - Password: [Text Field] Max. 8
 - Instructions: Operate the followings on the printer's control panel in order to use the documents which is printed by "secure print".
 - Navigation: [User Box] -> [System User Box] -> [Secure Print]
- Save in User Box**
 - File Name: [Text Field] Max. 30
 - User Box Number: [Text Field] Max. 9
- Secure Print**
 - Instructions: Type in [ID] and [Password] that are used with [Secure Print].

Buttons at the bottom: OK, Cancel, Default, Help.

4 Print the document.

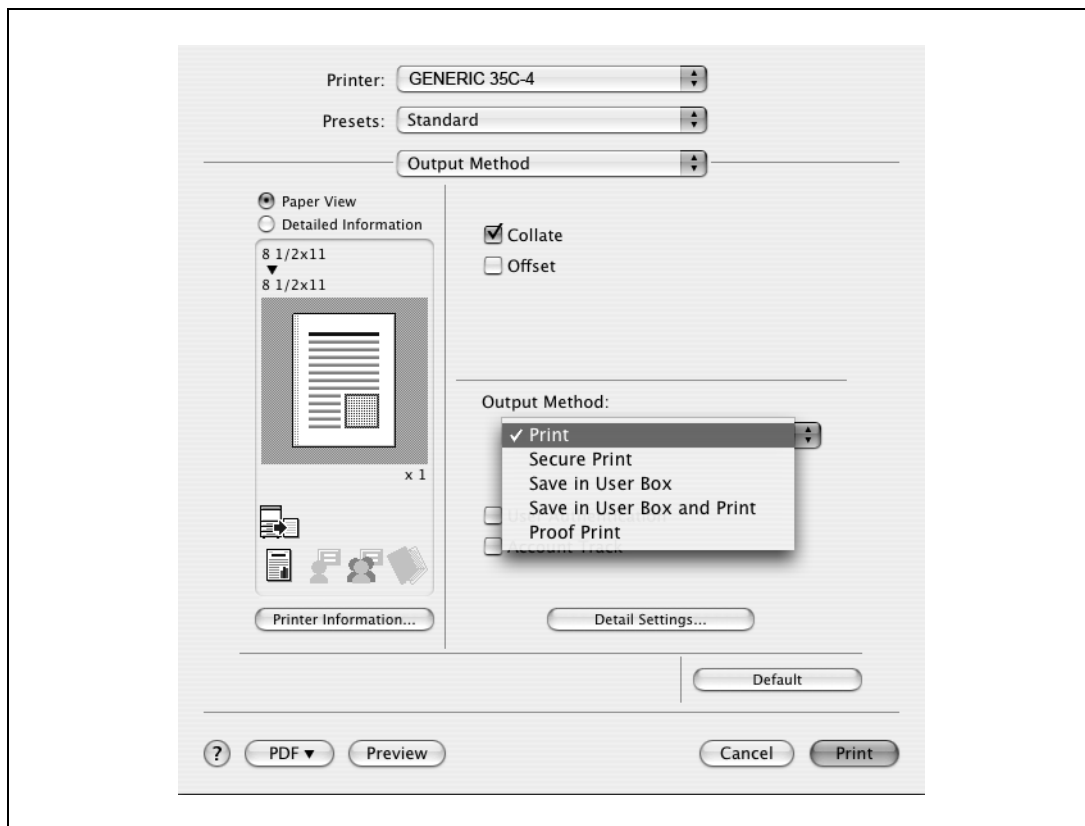


Reminder

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 Macintosh 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*.



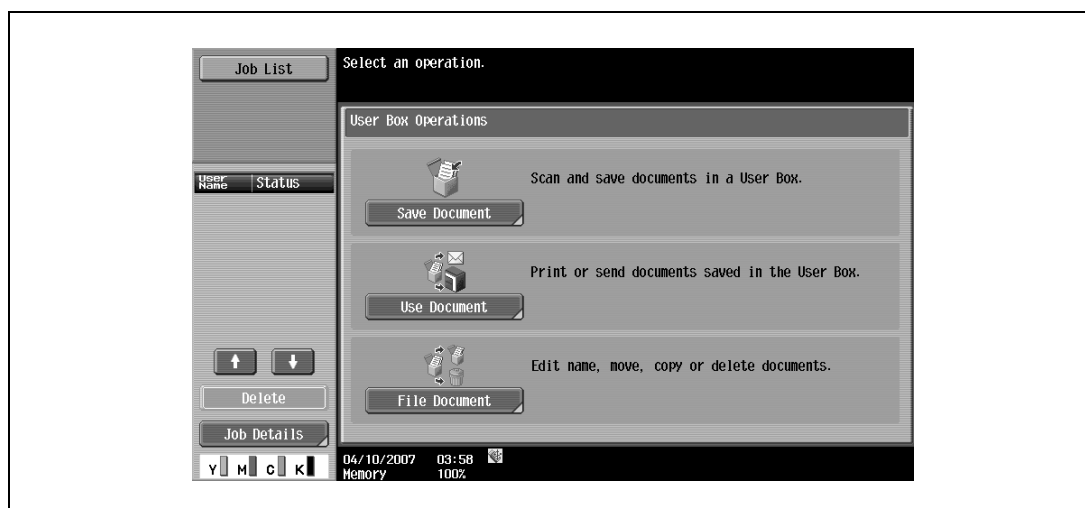
Note

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 12-38.

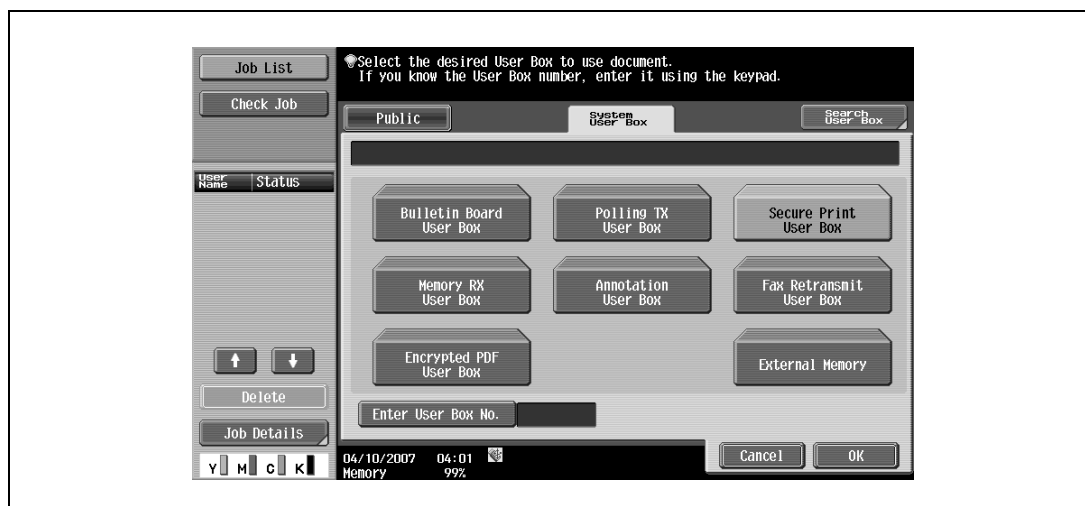
To manually delete a secured document that was printed, operate in the Administrator mode. For details, refer to "Delete Secure Print Documents" on page 12-37.

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

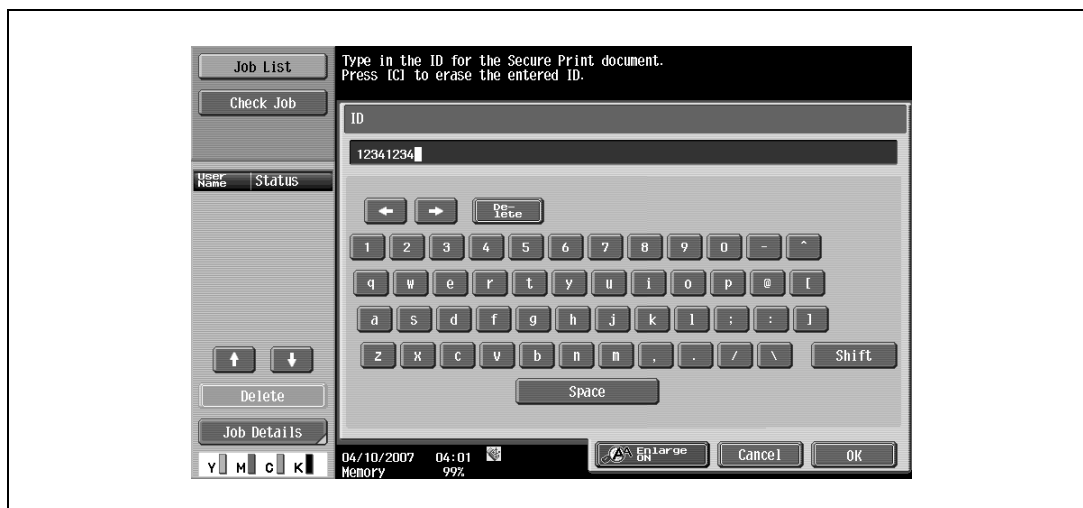
- 1 Press the [User Box] key in the control panel of this machine, and then touch [Use Document].



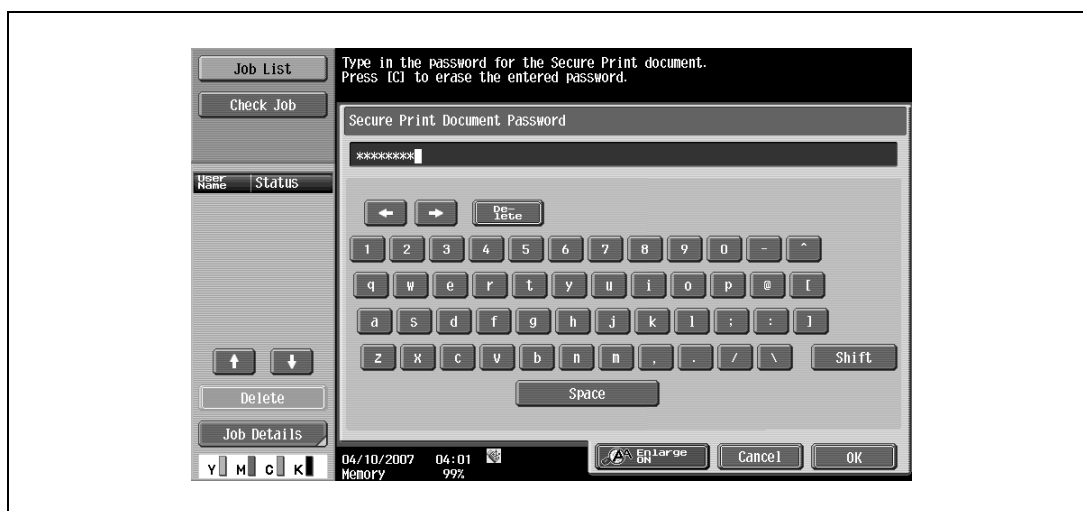
- 2 Select [System User Box], touch [Secure Print User Box], and then touch [OK].



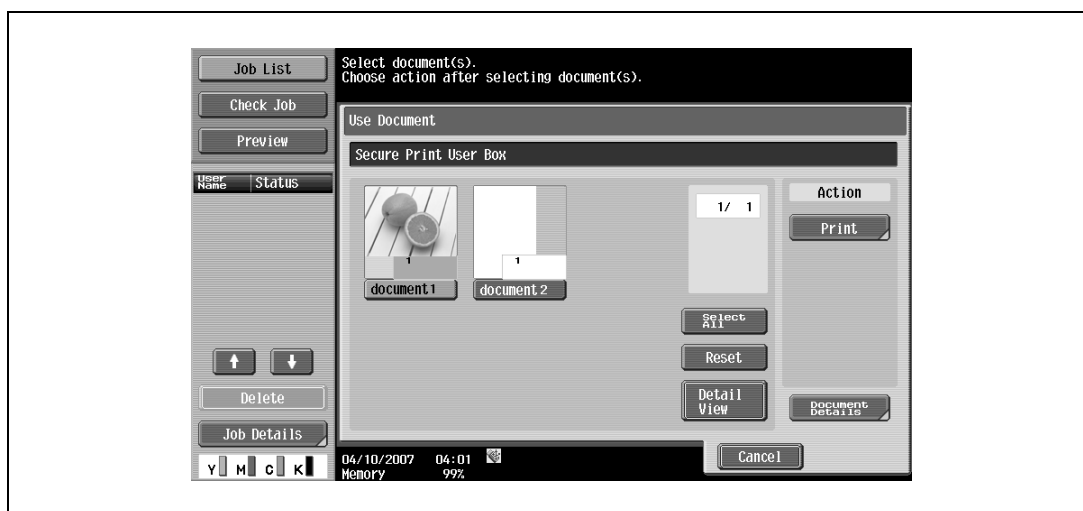
- 3 Type in the ID for the secured document, and then touch [OK].



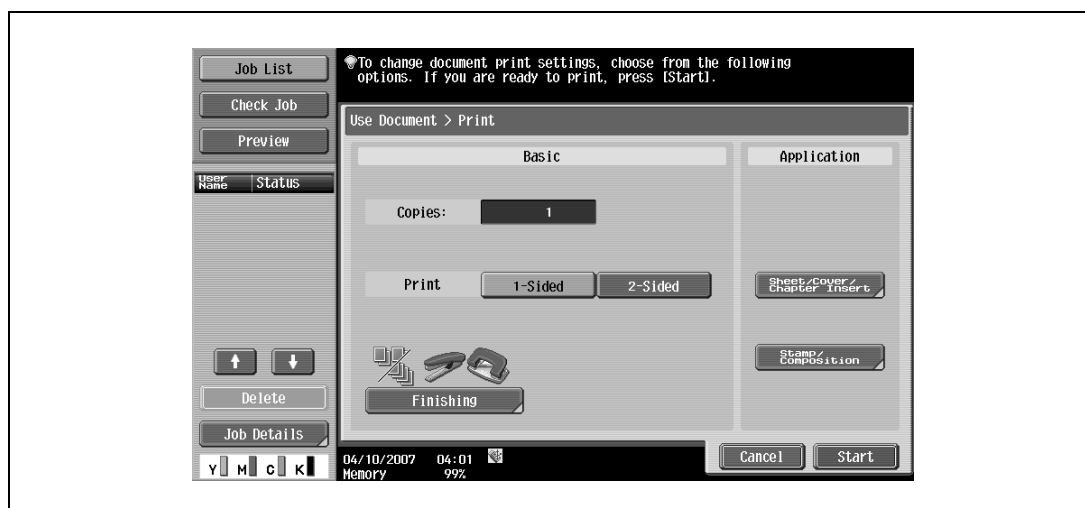
- 4 Type in the password for the secured document, and then touch [OK].
The secure print document list that match the entered ID and password appears.



- 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].



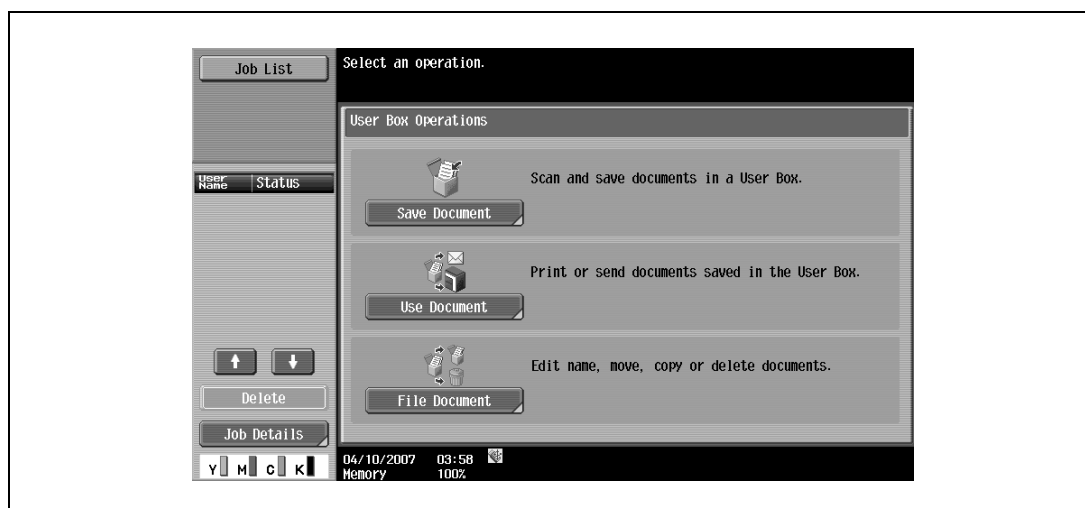
- 6 If necessary, change the print settings.



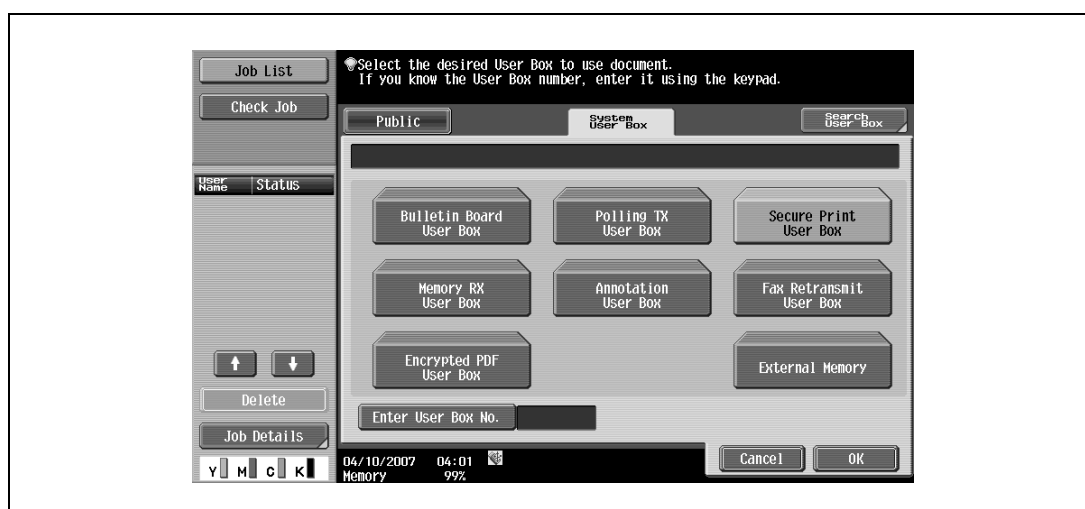
- 7 Touch [Start], or press the [Start] key in the control panel.
 – To cancel printing the job, touch [Cancel].
 The document is printed.

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

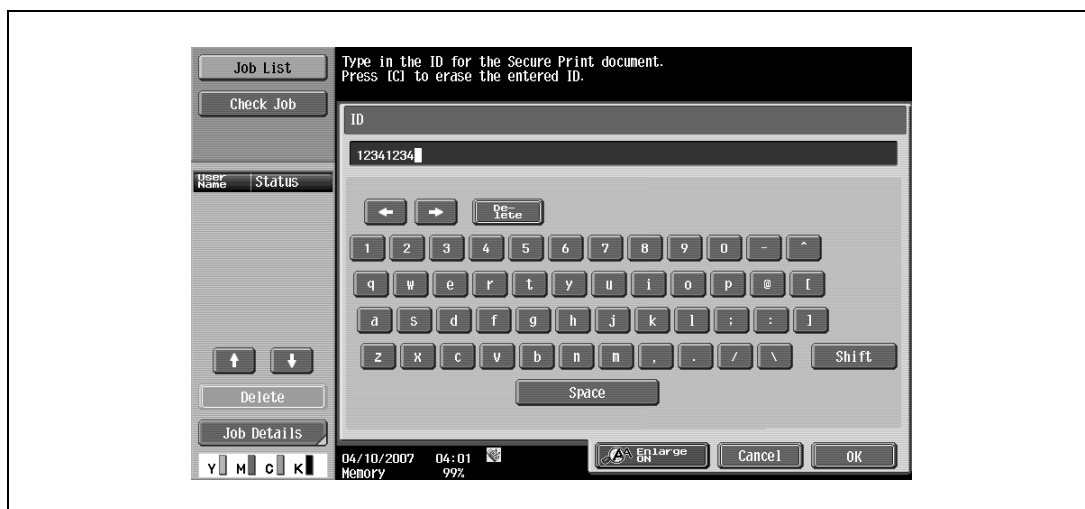
- 1 Press the [User Box] key in the control panel of this machine, and then touch [Use Document].



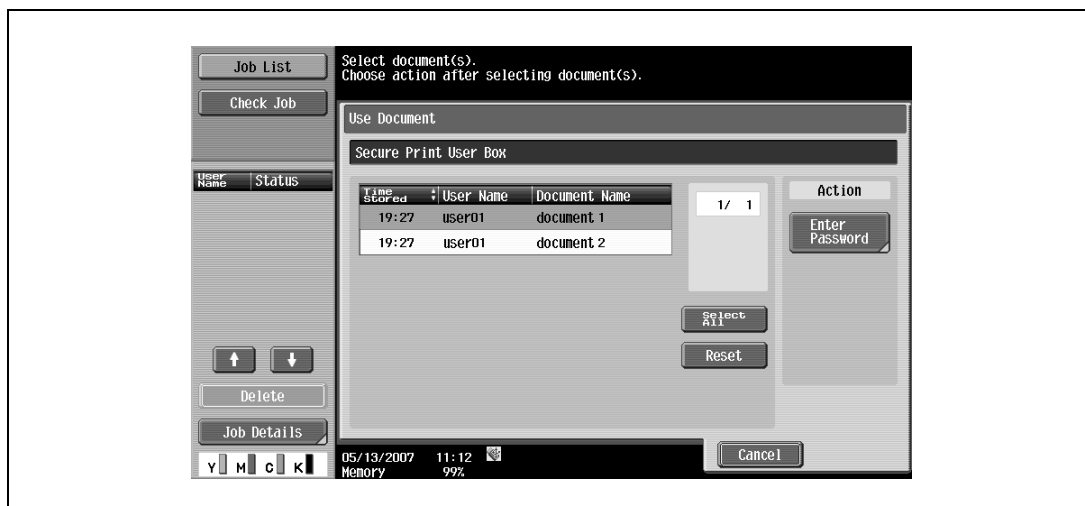
- 2 Select [System User Box], and touch [Secure Print User Box].



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

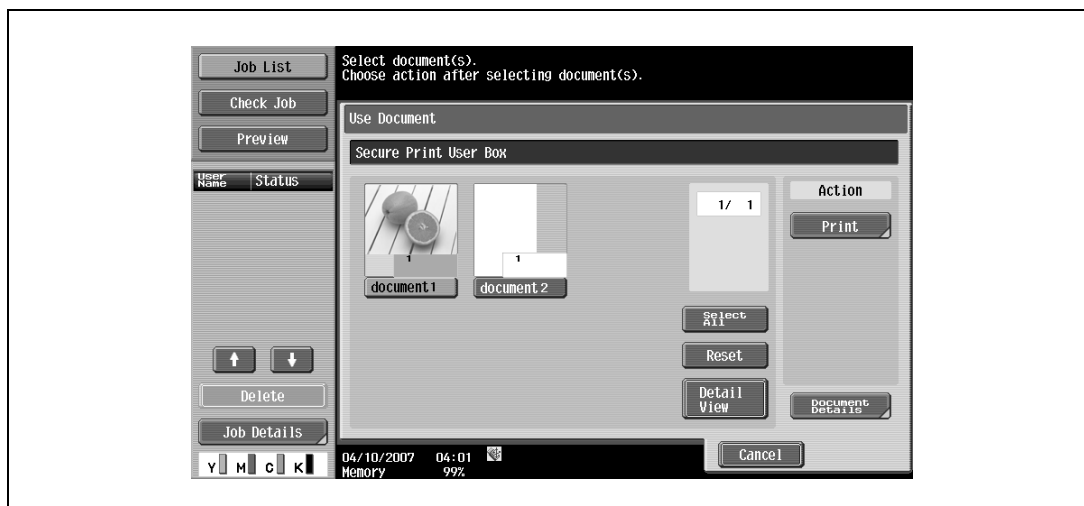


- 4 Select the document to be printed, and then touch [Enter Password].
– The contents and a preview of the document can be checked by touching [Detail View].

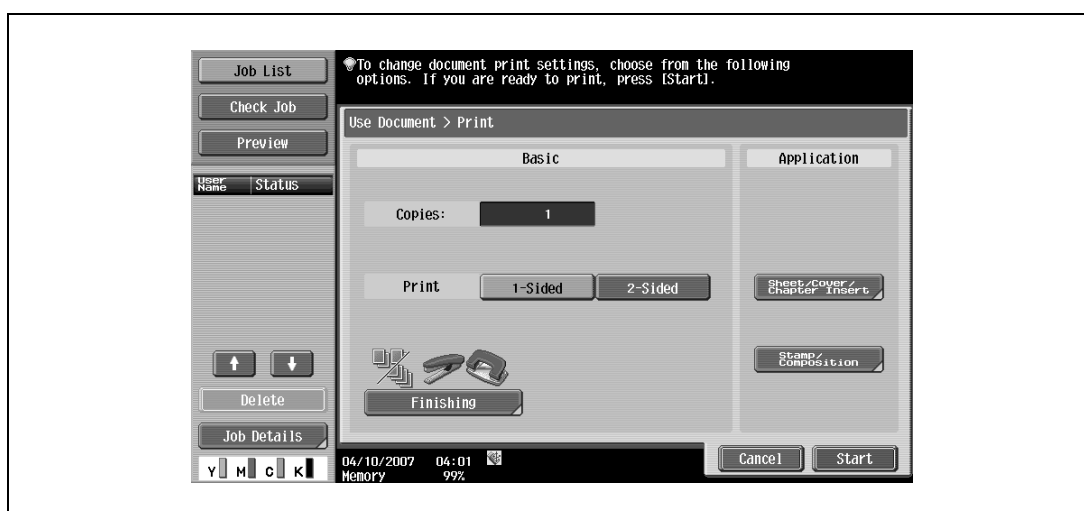


- 5 Type in the password for the secured document, and then touch [OK].
– If "Prohibit Functions When Authentication Error" in Administrator mode is set to "Mode 2" and an incorrect document password is entered the specified number of times, the selected document is locked. Contact the administrator 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 three printer drivers support setup of this feature:

- PCL Printer Driver for Windows
- PostScript Printer Driver for Windows
- PostScript PPD Printer Driver for Mac OS X

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".

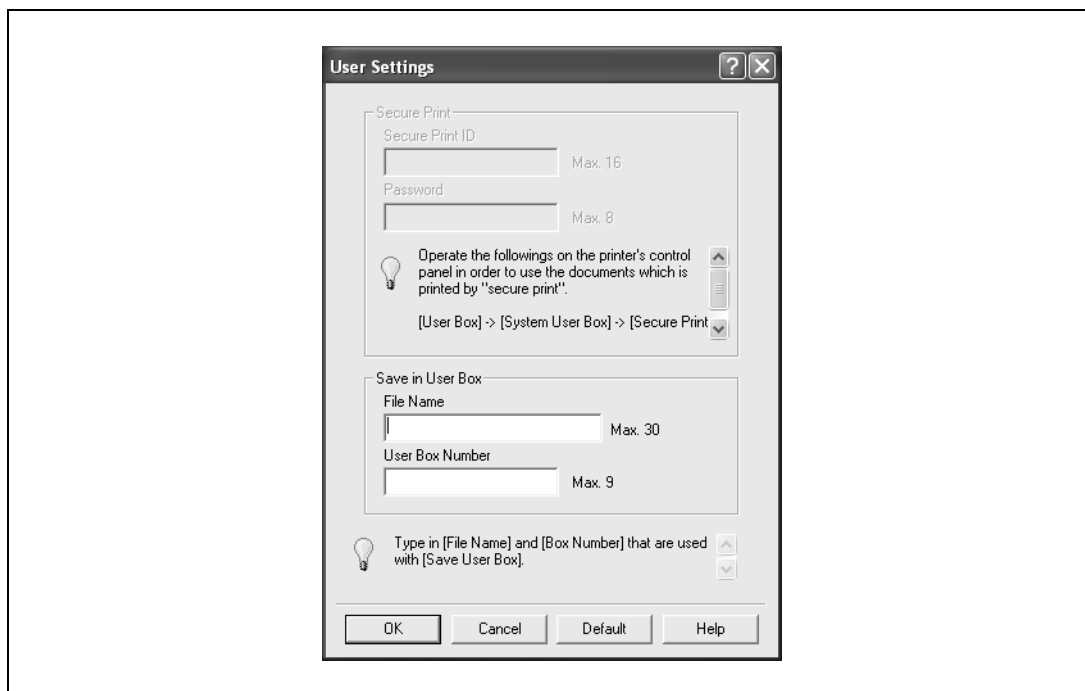
Be sure to create the user box of the save location in advance with the Box functions of this machine. For details on the Box functions of this machine, refer to the User manual – Box Operations.

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.



- 4 Print the document.

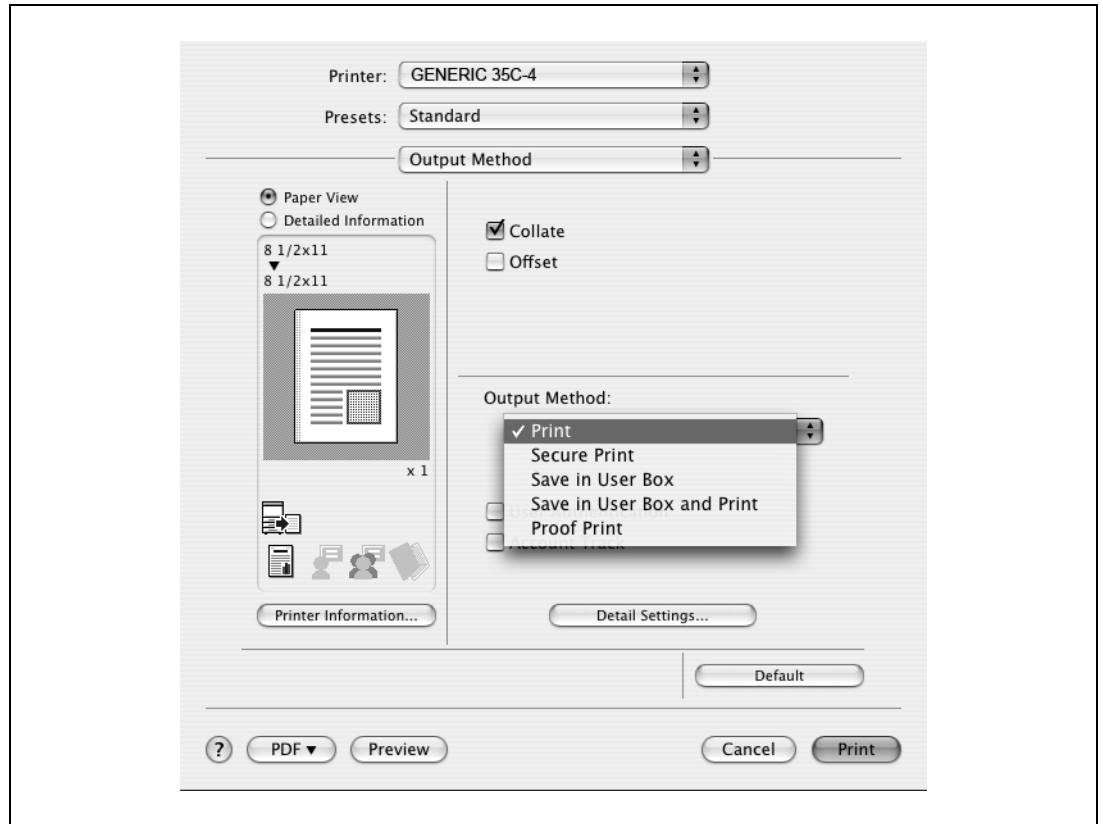


Reminder

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 Macintosh 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*.

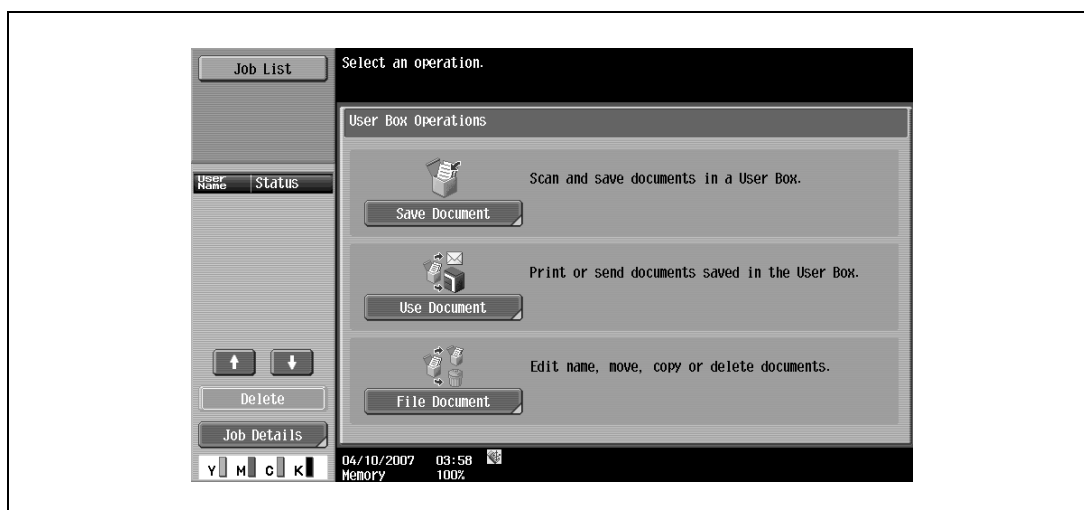
For details on the Box functions of this machine, refer to the *User manual – Box Operations*.



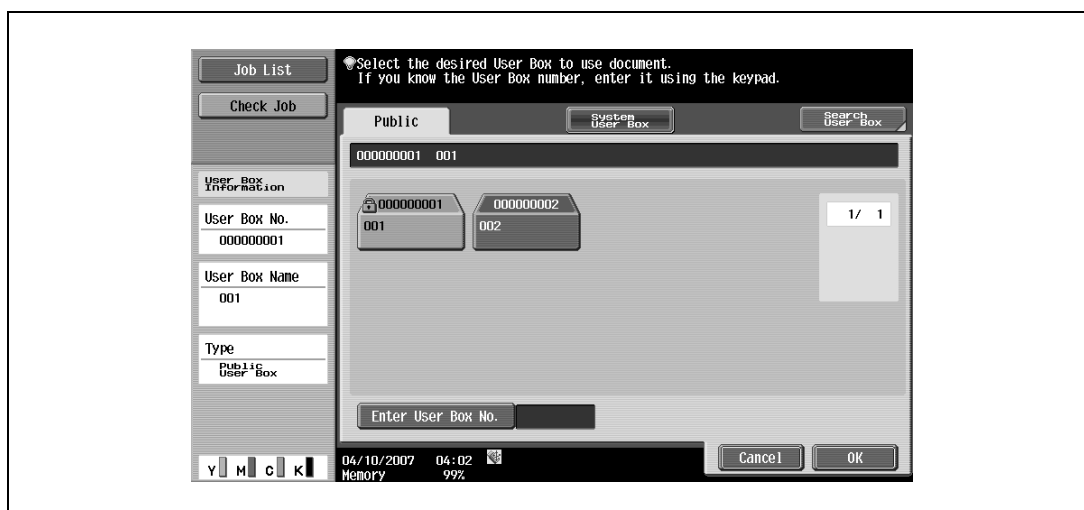
Note

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].

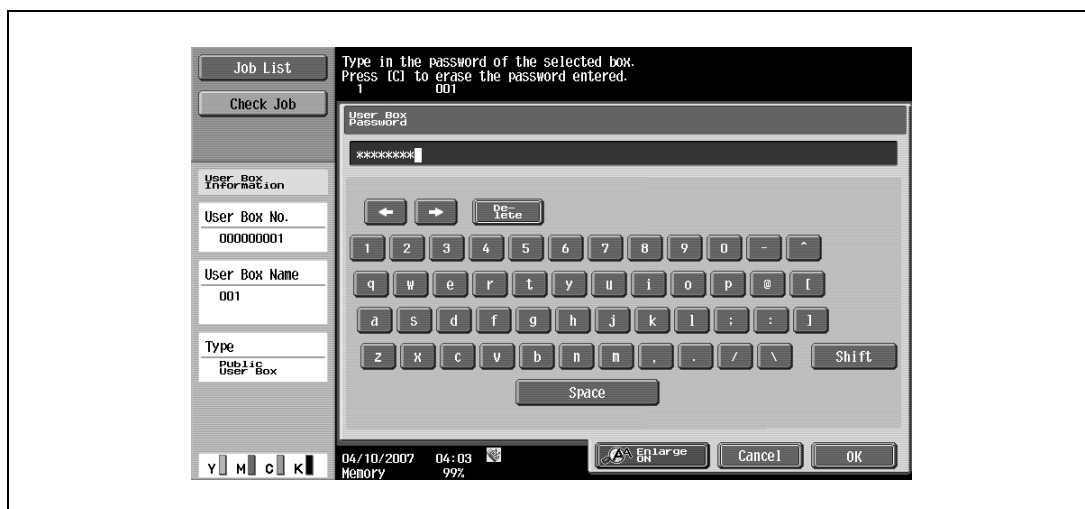


- 2 Select the desired user box number, and then touch [OK].
User boxes are classified as public, private, or group. Specify the desired user box from the classification of the saved user box.
The user box number can be used to specify the target box directly.
 - If a password is specified for the user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



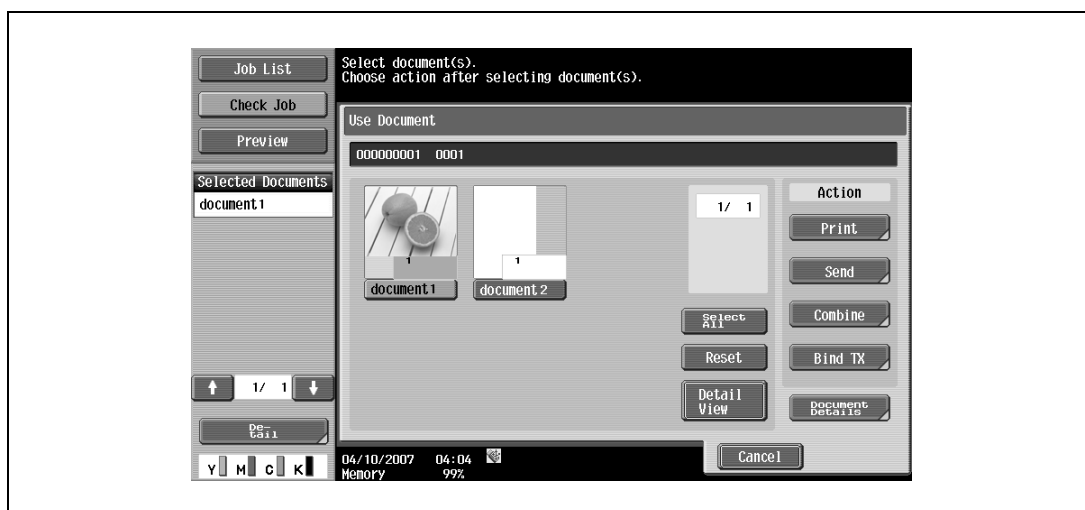
3 Type in the password for the user box, and then touch [OK].

A list of documents in the specified user box appears.

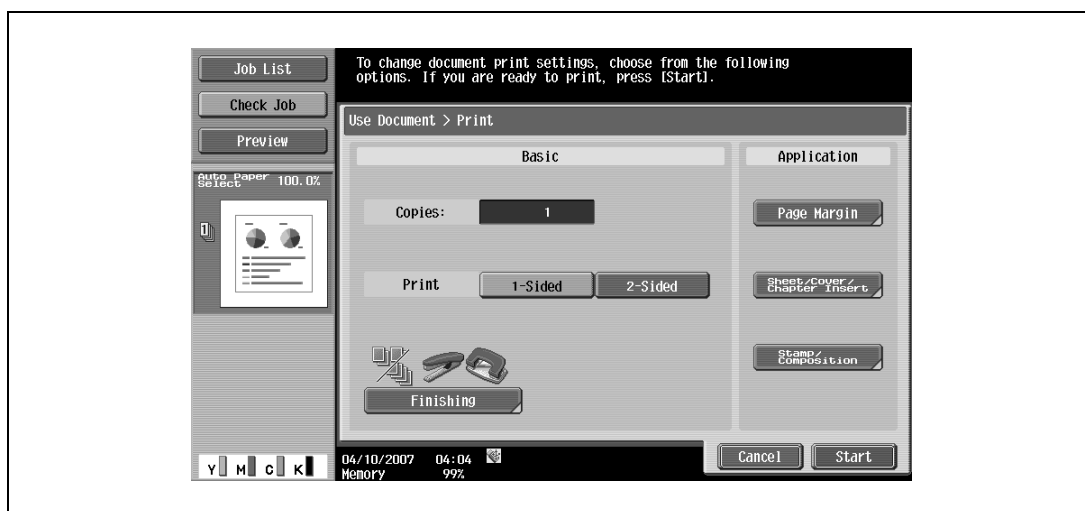


4 Select the document to be printed, and then touch [Print].

- 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 three printer drivers support setup of this feature:

PCL Printer Driver for Windows

PostScript Printer Driver for Windows

PostScript PPD Printer Driver for Mac OS X



...

Note

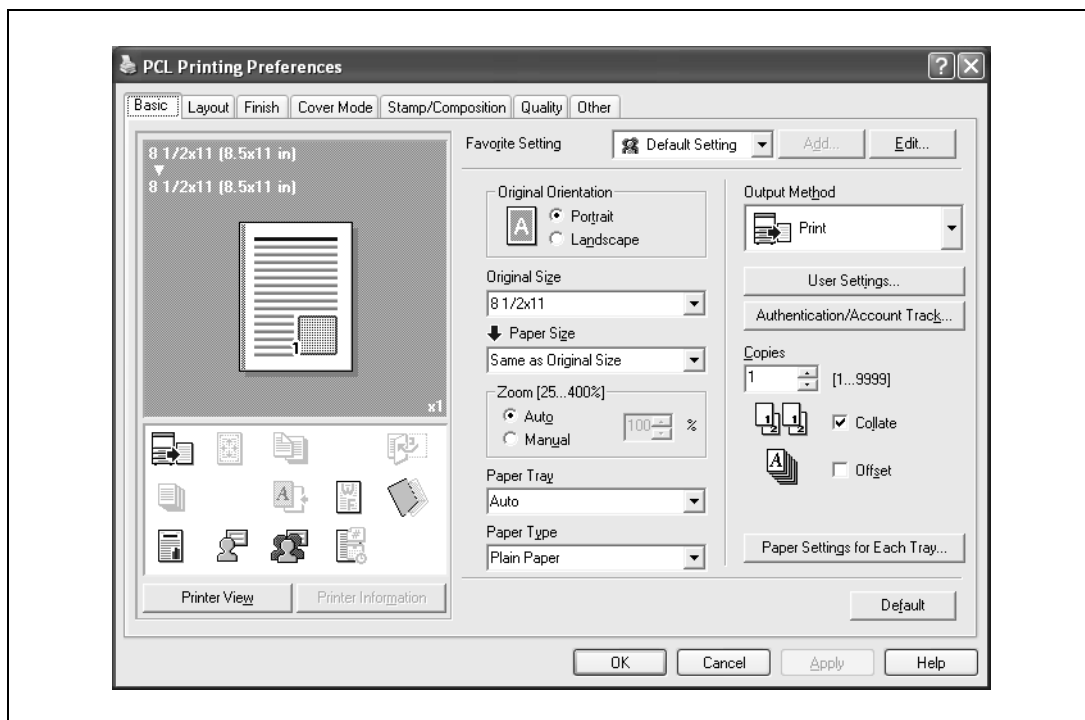
If printing is not allowed, printing cannot be performed even when used by a registered user. For details on the user authentication details, consult the administrator of this machine.

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.



- 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

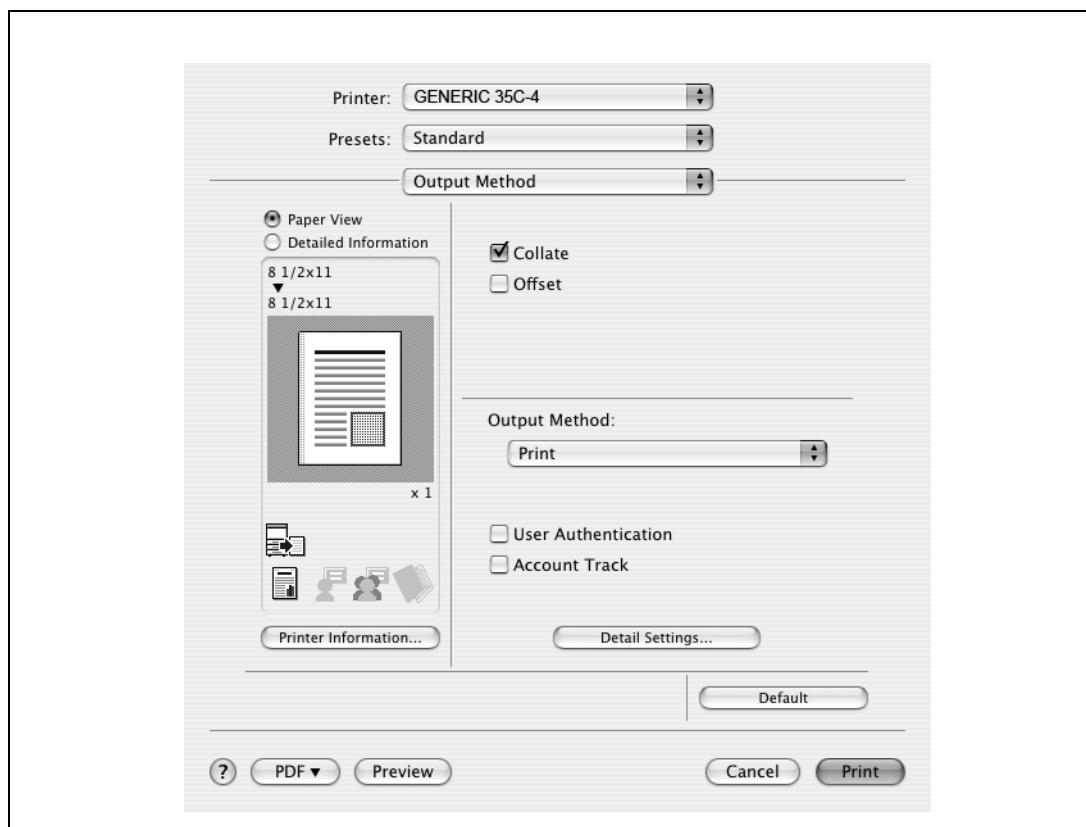
If the user authentication settings are not specified on the Configure tab, user authentication cannot be performed. If using the user authentication function, be sure to specify the settings on the Configure tab. For details, refer to "Configure tab" on page 8-4.

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.

For Macintosh 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 three printer drivers support setup of this feature:

PCL Printer Driver for Windows

PostScript Printer Driver for Windows

PostScript PPD Printer Driver for Mac OS X



Note

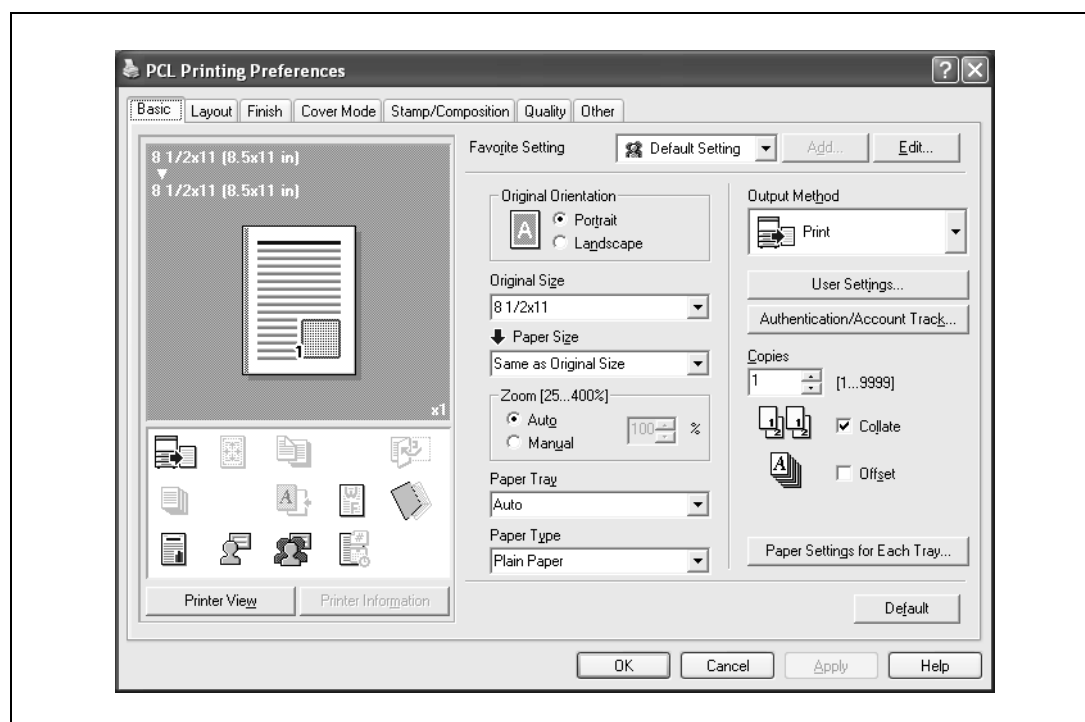
If printing is not allowed, printing cannot be performed even for a registered account.

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

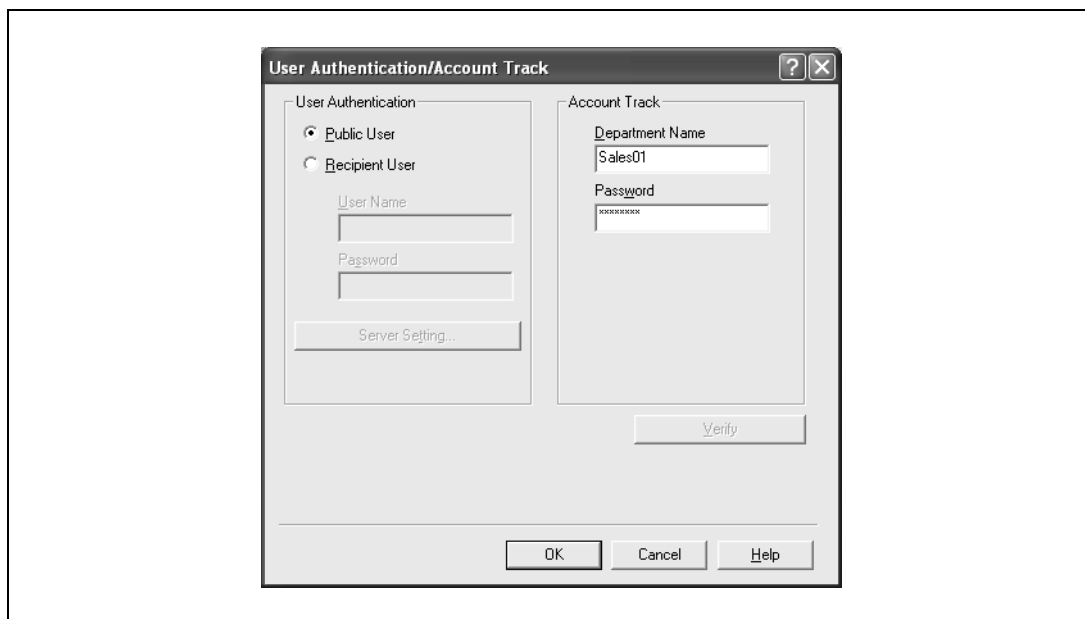
11.5.1 Setting up the printer driver

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.



...

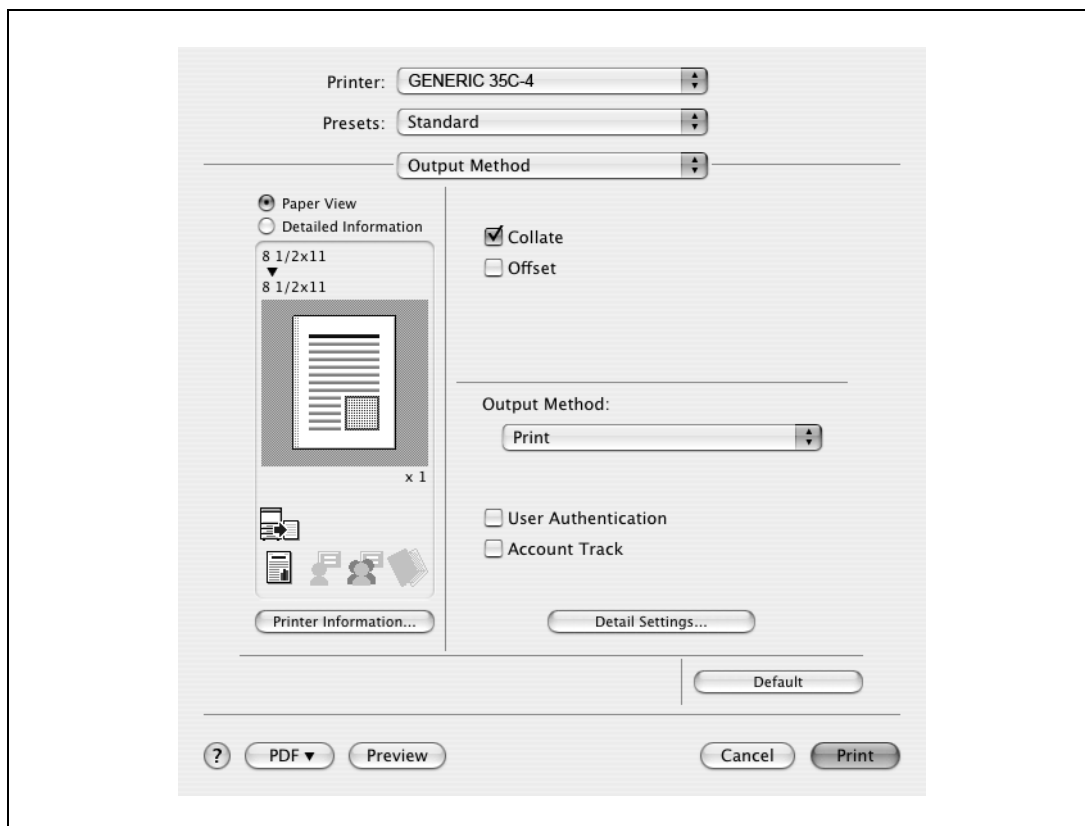
Reminder

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 8-4.

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 Macintosh 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 Touch and Print

When an optional authentication unit (biometrics type) or authentication unit (IC card type) is used, simply touching the authentication unit with the finger or an IC card enables user authentication and printing. This function is referred to as the Touch and Print.

Also with this type of user authentication, to print via a computer, enter the user name and password in the printer driver, just like when using common user authentication.

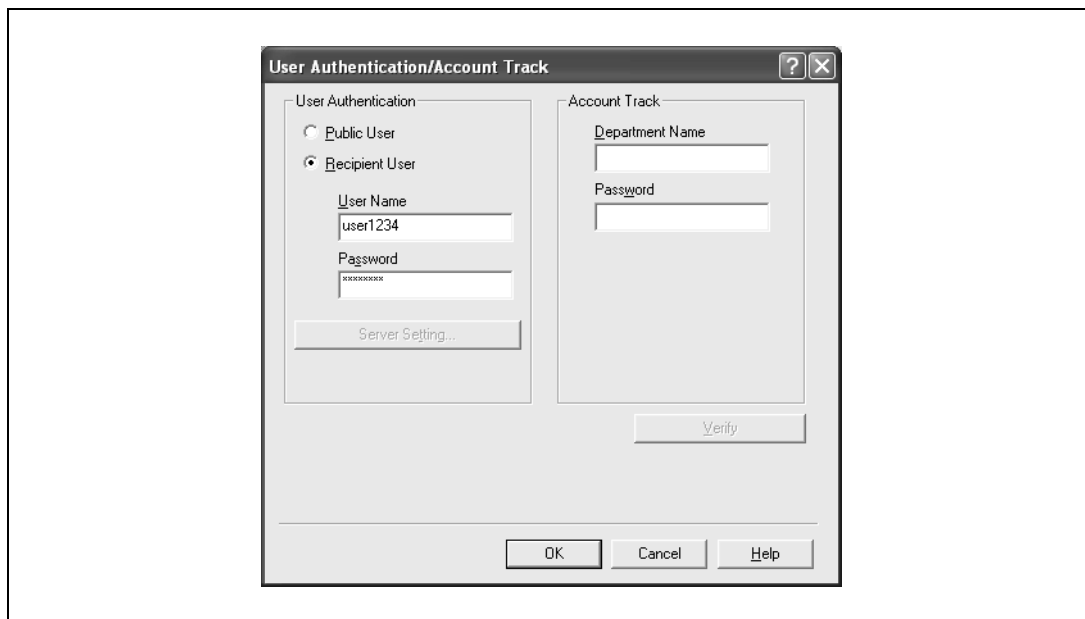


Detail

For details, refer to "Printing on a machine with the user authentication set up" on page 11-20.

- 1 Enter the user name and password in the printer driver, and then print.

– For Windows:



– For Macintosh OS X:



- 2 Touch the authentication unit of the machine.
Once the user is authenticated, the document is printed.



Detail

For details on the authentication unit, refer to the manual provided with the authentication unit.

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

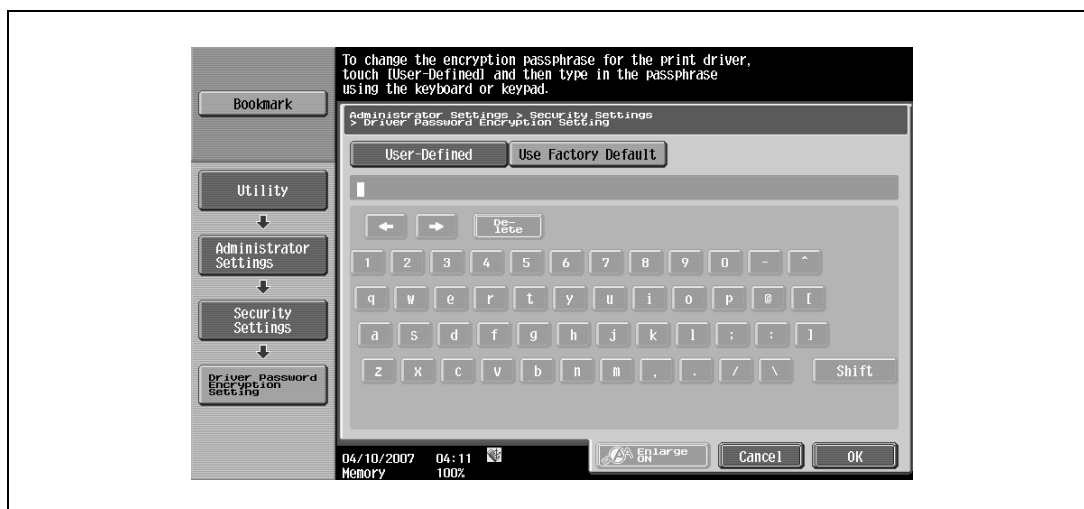
If different values are used for the encryption passphrase for the machine and the printer driver, the machine cannot decrypt the encrypted user password, account password or secure document password. Then printing cannot be performed.

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

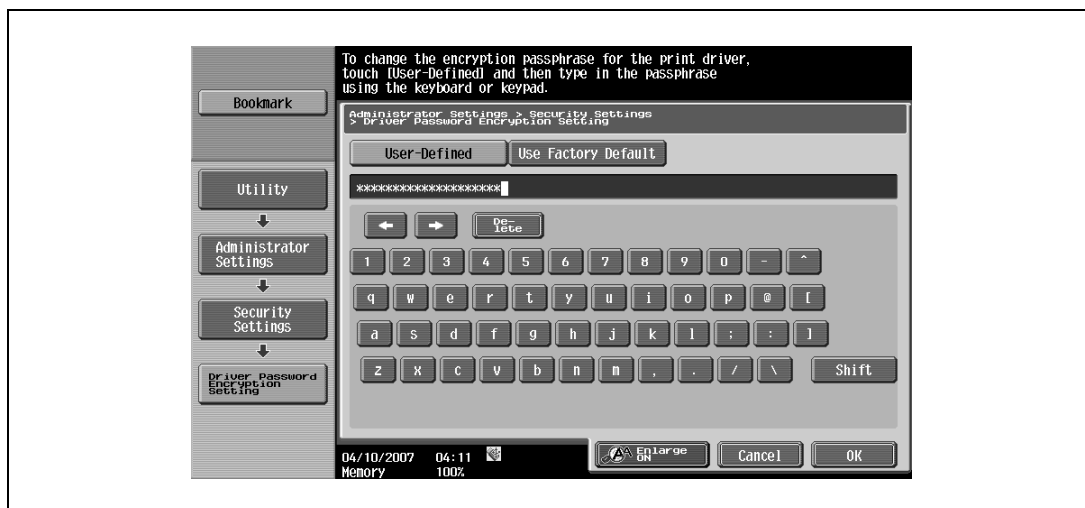
11.7.1 Settings of this machine

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

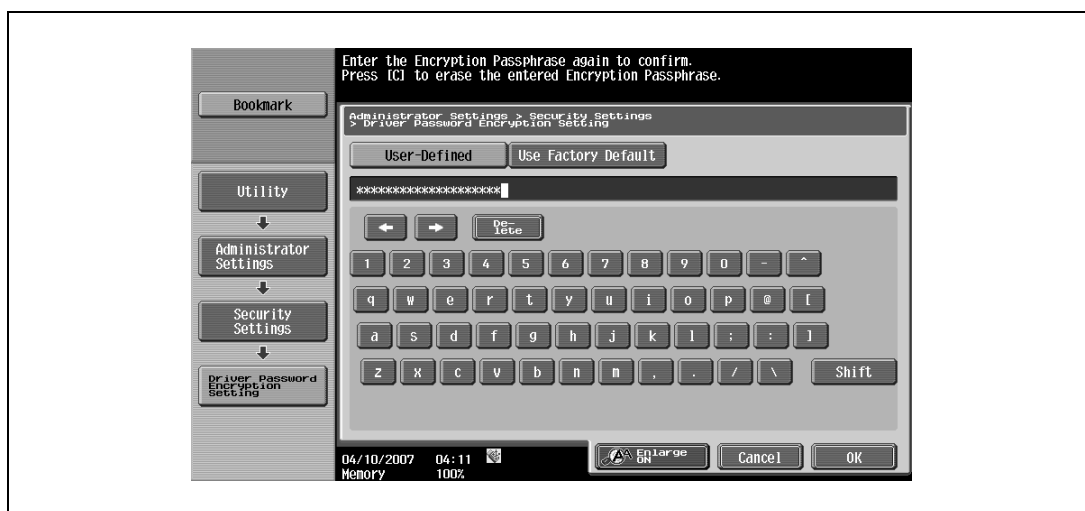
- 1 Touch [Security Settings] in the Administrator Settings screen.
- 2 In the Security Settings screen, touch [Driver Password Encryption Setting].
- 3 Touch [User-Defined].
 - To do without specifying a user definition for "Encryption Passphrase", touch "Use Factory Default".



- 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.

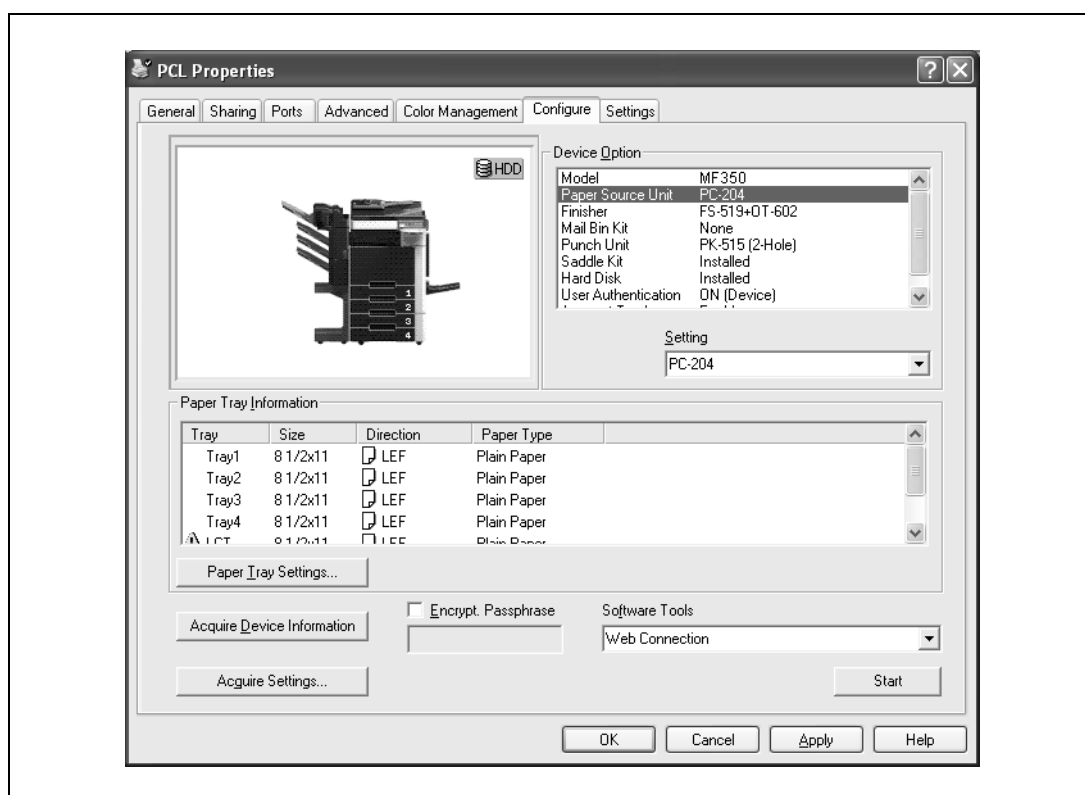
11.7.2 Setting up the printer driver

The following three printer drivers support setup of this feature:

- PCL Printer Driver for Windows (PCL driver)
- PostScript Printer Driver for Windows (PS driver)
- PostScript PPD Printer Driver for Mac OS X

For Windows

- 1 Display the Properties screen.
 - To display the Properties window, open the 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 "Encryption Passphrase" check box and enter the encryption passphrase.
 - To do without specifying a user definition for "Encryption Passphrase", clear "Encryption Passphrase".



- 4 Click the [OK] button.



Note

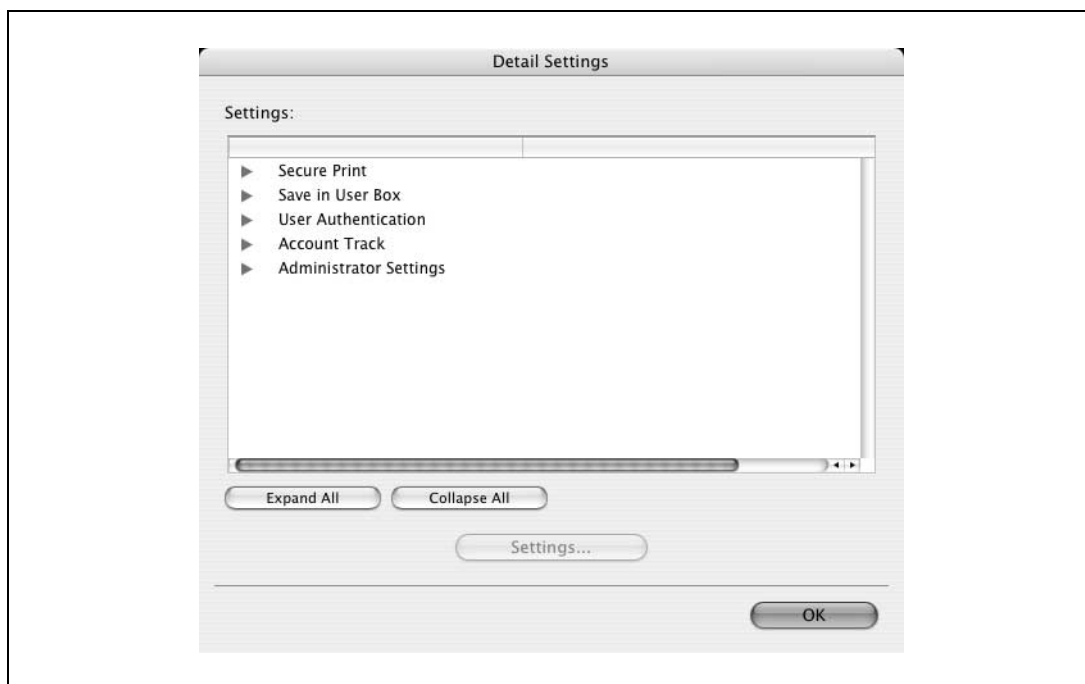
When entering the encryption passphrase, use 20 alphanumeric characters. Specify the same encryption passphrase for the machine and the printer driver.

An encryption key 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 encryption key from this machine automatically.

For Macintosh 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 ICC profile settings

The printer driver has a function to specify ICC profiles registered on the machine when performing a print job.



Note

To specify the default setting for the ICC profile registered on the machine, go to [ICC Profile Settings]. For details, refer to "ICC profile settings" on page 11-33.

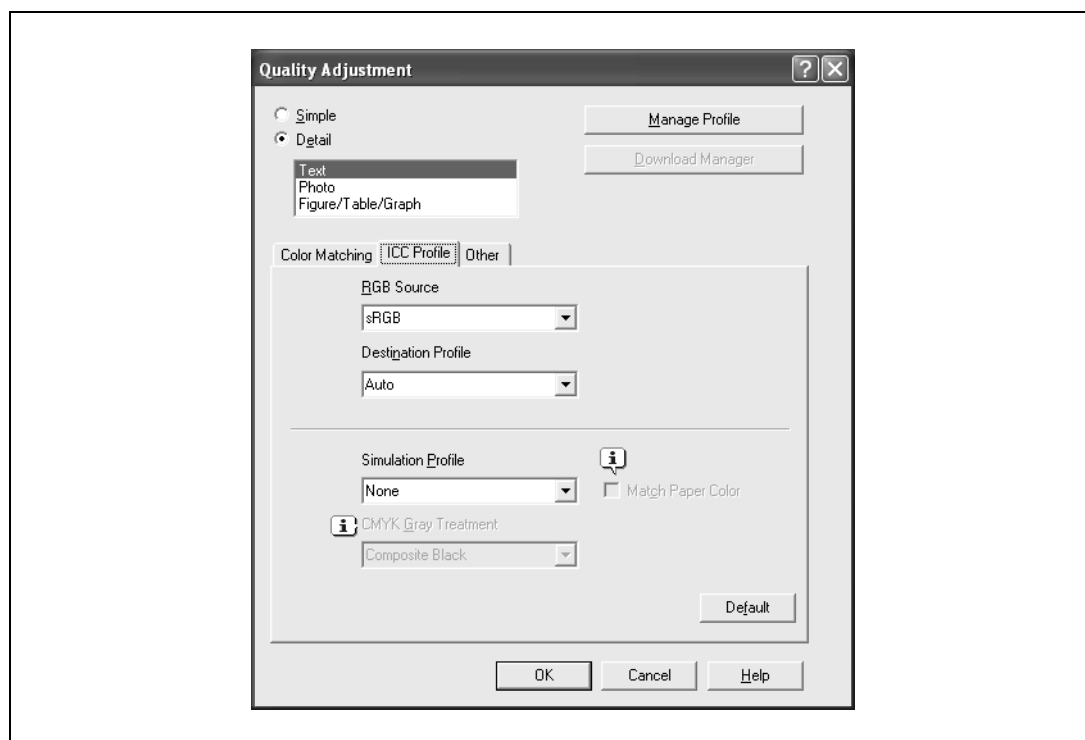
In order to utilize the ICC profiles added to the machine, the ICC profiles on this machine must be registered in the printer driver beforehand. For details, refer to "Registering ICC profiles in the printer driver" on page 11-35.

The following two printer drivers support setup of this feature:

- PostScript Printer Driver for Windows (PS driver)
- PostScript PPD Printer Driver for Mac OS X

11.8.1 Setting up the printer driver for Windows

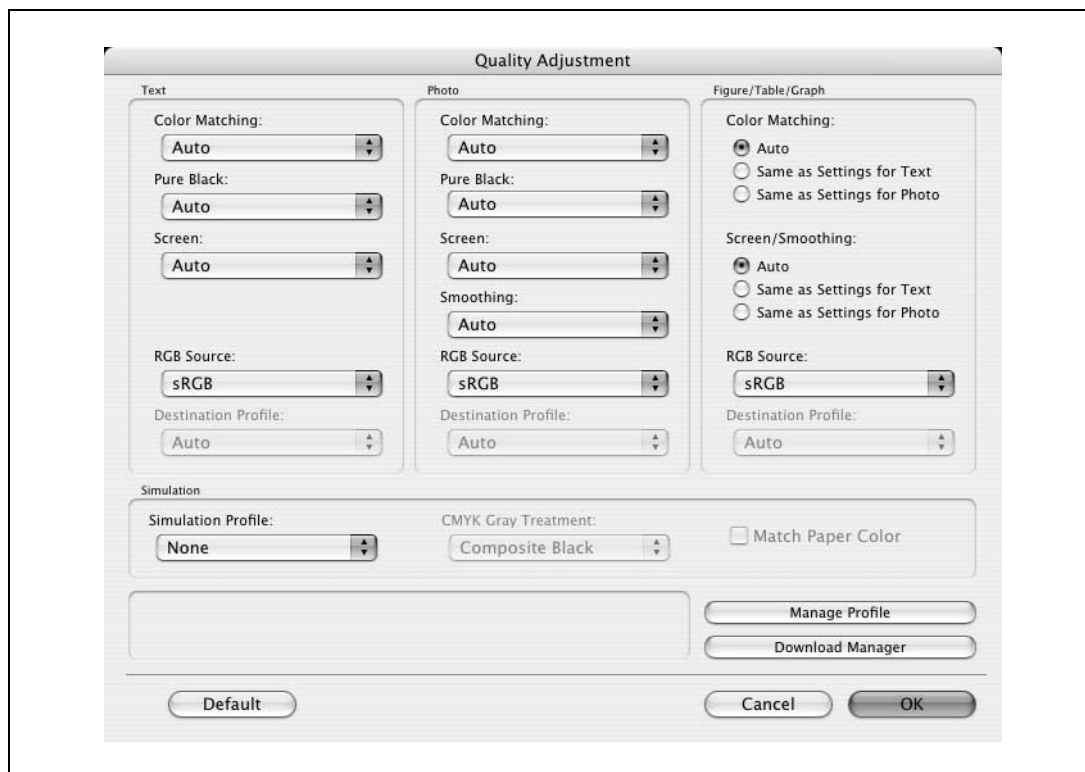
- 1 Display the Quality tab.
- 2 Click the [Quality Adjustment] button.
The Quality Adjustment dialog box appears.
- 3 Click the ICC Profile tab.
- 4 Click the [Detail] button and select a document type.



- 5 Select relevant items for "RGB Source", "Destination Profile", and "Simulation Profile", respectively.
 - This enables to select ICC profiles registered in the printer driver. When printing, color processing is performed according to the selected ICC profiles.
- 6 Click the [OK] button.

11.8.2 Setting up the printer driver for Macintosh OS X

- 1 Display the Quality dialog box.
- 2 Click the [Quality Adjustment] button.
The Quality Adjustment dialog box appears.
- 3 Select relevant items for "RGB Source", "Destination Profile", and "Simulation Profile" according to the type of the document to be printed.
 - This enables to select ICC profiles registered in the printer driver.



When printing, color processing is performed according to the selected ICC profiles.

- 4 Click the [OK] button.

11.9 Registering ICC profiles in the printer driver

Additional ICC profiles downloaded and added to the machine can be registered in the printer driver.

A registered ICC profile can be specified when printing.

The following two printer drivers support setup of this feature:

- PostScript Printer Driver for Windows
- PostScript PPD Printer Driver for Mac OS X

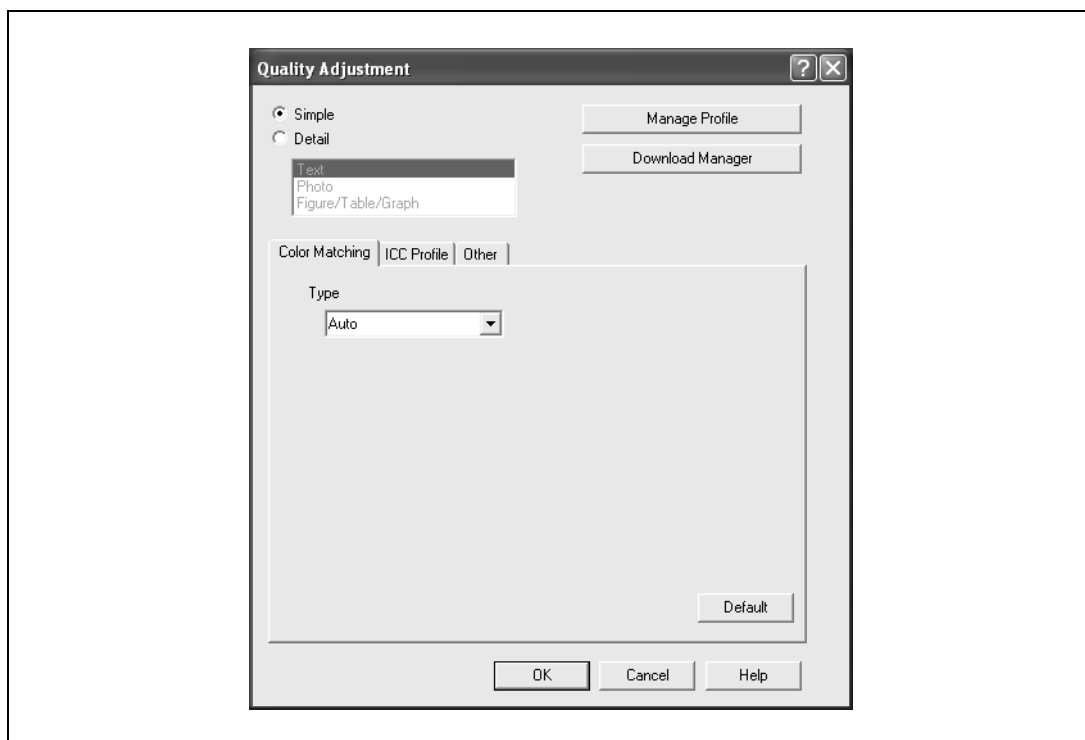


Detail

To register ICC profile in the machine, use the *Download Manager (d-Color)* application. For details, refer to the *Help for the application software*.

11.9.1 Setting up the printer driver for Windows

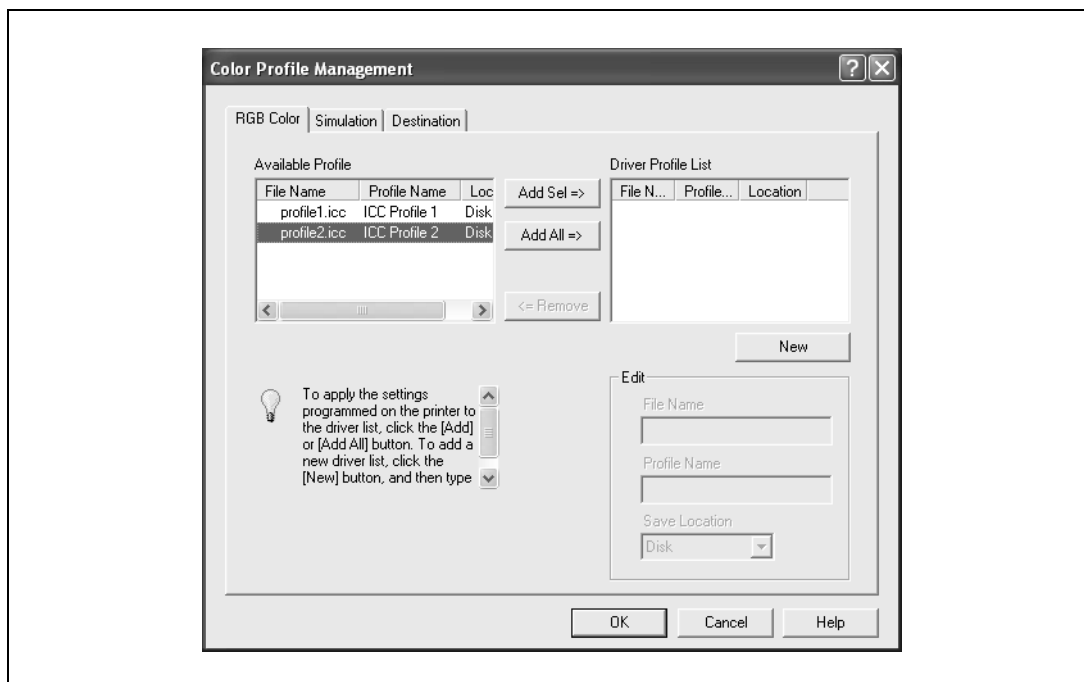
- 1 Click the Quality tab.
- 2 Click the [Quality Adjustment] button.
The Quality Adjustment dialog box appears.
- 3 Click the [Manage Profile] button.



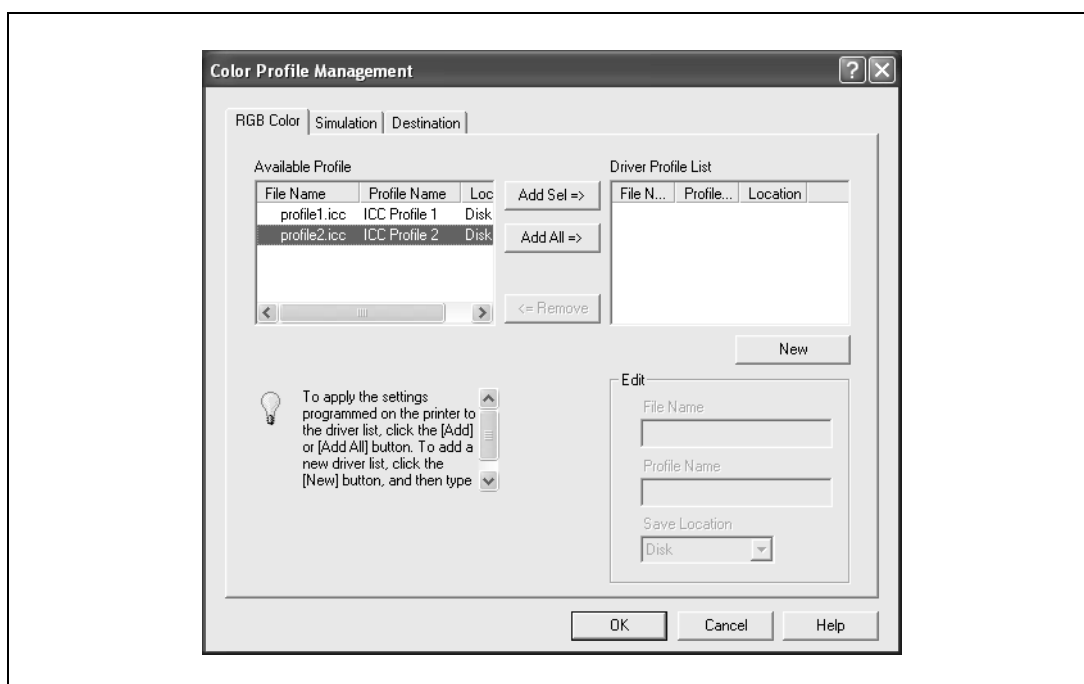
- The Color Profile Management function communicates with the machine to read ICC profiles available to the machine. This function is not available unless the connection is enabled for communications with the machine.
- If the machine is connected via the USB connector, it cannot read ICC profiles available to the machine.
- Click [Download Manager], and the Download Manager (d-Color) application starts. This function is only available when Download Manager (d-Color) is installed.

The Color Profile Management dialog box appears.

- 4 Check that a list of available profiles that are additionally registered on the machine is displayed.



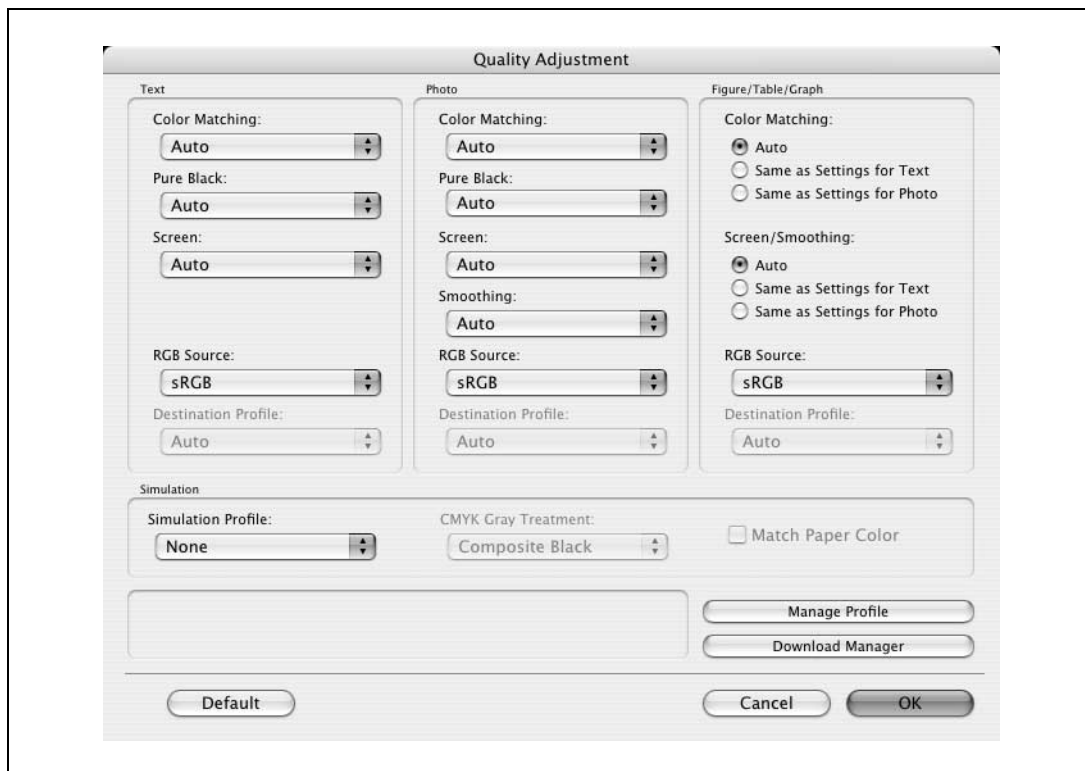
- 5 Click the tab and select a color profile type.



- 6 Select a desired profile from the "Available Profile" list, and then click the [Add] button.
- To register the current driver settings as a profile, click the [New] button, and then enter a file name and a profile name.
 - The profile name can be changed from "Edit".
- The selected profile is added to "Driver Profile List". Then it can be selected in the Quality Adjustment dialog box from ICC Profile entries.
- 7 Click the [OK] button.

11.9.2 Setting up the printer driver for Macintosh OS X

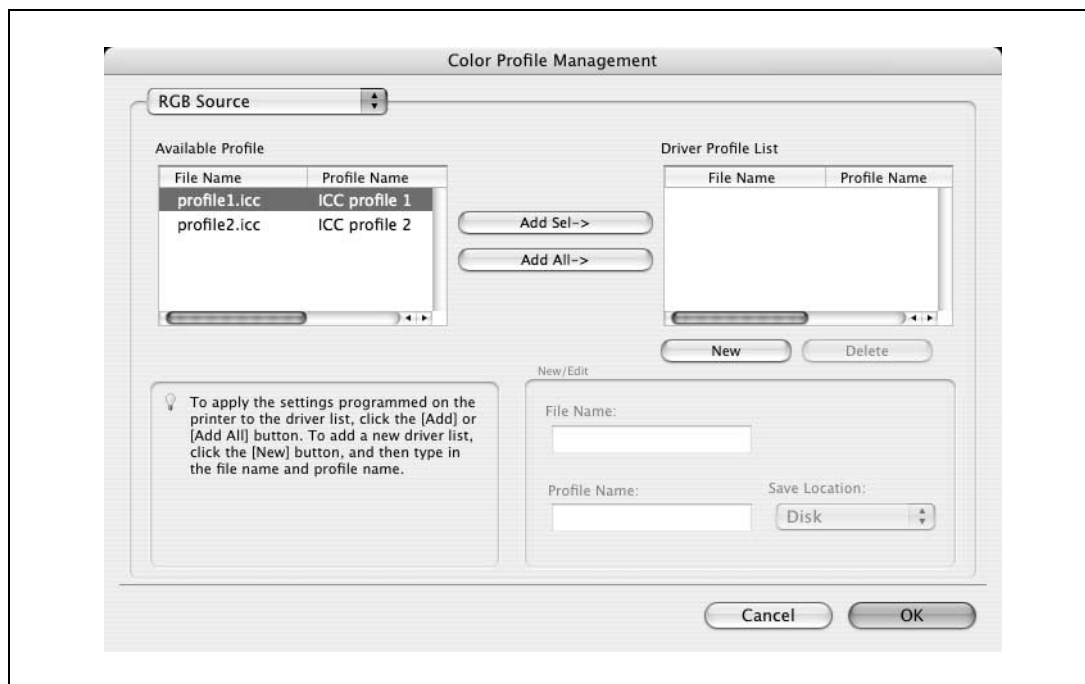
- 1 Display the Quality dialog box.
- 2 Click the [Quality Adjustment] button.
The Quality Adjustment dialog box appears.
- 3 Click the [Manage Profile] button.



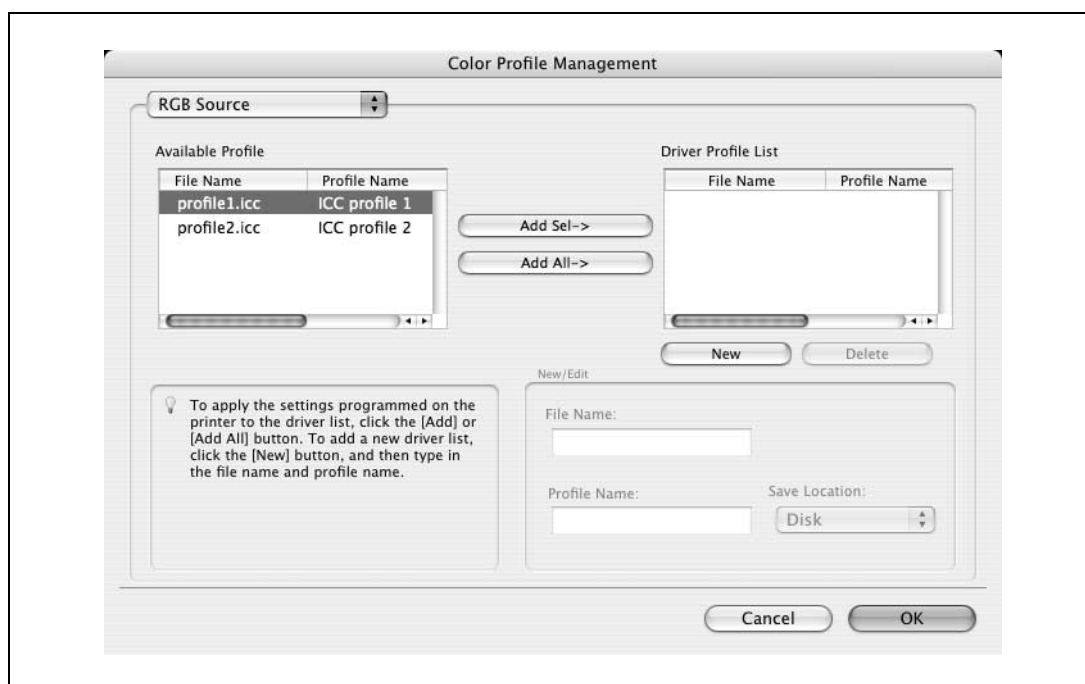
- The Color Profile Management function communicates with the machine to read profiles available to the machine. This function is not available unless the connection is enabled for communications with the machine.
- Click [Download Manager], and the Download Manager (d-Color) application starts. This function is only available when Download Manager (d-Color) is installed.

The Color Profile Management dialog box appears.

- 4 Check that a list of available profiles that are additionally registered on the machine is displayed.



- 5 Select a color profile type from the drop-down list.



- 6 Select a desired profile from the "Available Profile" list, and then click the [Add ->] button.
- To register the current driver settings as a profile, click [New], and then enter a file name and a profile name.
 - The profile name can be changed from "New/Edit".
- The selected profile is added to "Driver Profile List". Then it can be selected in the Quality Adjustment dialog box from profile entries.
- 7 Click the [OK] button.

11.10 Banner paper printing function

By specifying the banner print settings on the control panel, allows you to print on the paper up to 47-1/4 inches (1,200 mm) feeded from the bypass tray.

In the following section, setting long paper and printing on it is referred to as banner paper printing.

11.10.1 Copy paper

Applicable paper

Paper width	Paper length	Paper type
8-1/4 to 11-3/4 inches (210 to 297 mm)	18 to 47-1/4 inches (457.3 to 1,200.0 mm)	Thick paper 1, Thick paper 1 + Duplex 2nd Side, Thick paper2, Thick paper2 + Duplex 2nd Side (24-1/4 to 55-1/2 lb (91 to 209 g/m ²))

11.10.2 Printer drivers and supported operating systems

The following drivers support banner paper printing:

Page description language	Printer driver	Supported operating systems
PCL	PCL Printer Driver (PCL driver)	Windows NT4.0, Windows 2000 Professional, Windows XP Home Edition/Professional, Windows Vista Home Basic /Home Premium /Ultimate /Business /Enterprise, and Windows Server 2003
PostScript3 Emulation	PostScript Printer Driver (PS driver)	Windows 2000 Professional, Windows XP Home Edition/Professional, Windows Vista Home Basic /Home Premium /Ultimate /Business /Enterprise, and Windows Server 2003

11.10.3 Setting up the printer driver

Specify the output paper size as a custom paper size.

- 1 Click the Basic tab.
- 2 Select "Custom Size" from "Original Size" or "Paper Size".
The Custom Size Settings dialog box appears.
- 3 Specify the length and the width of the custom paper size according to the selected measurement unit.
- 4 Specify the paper type.
– If necessary, specify the other settings.
- 5 Click the [OK] button.

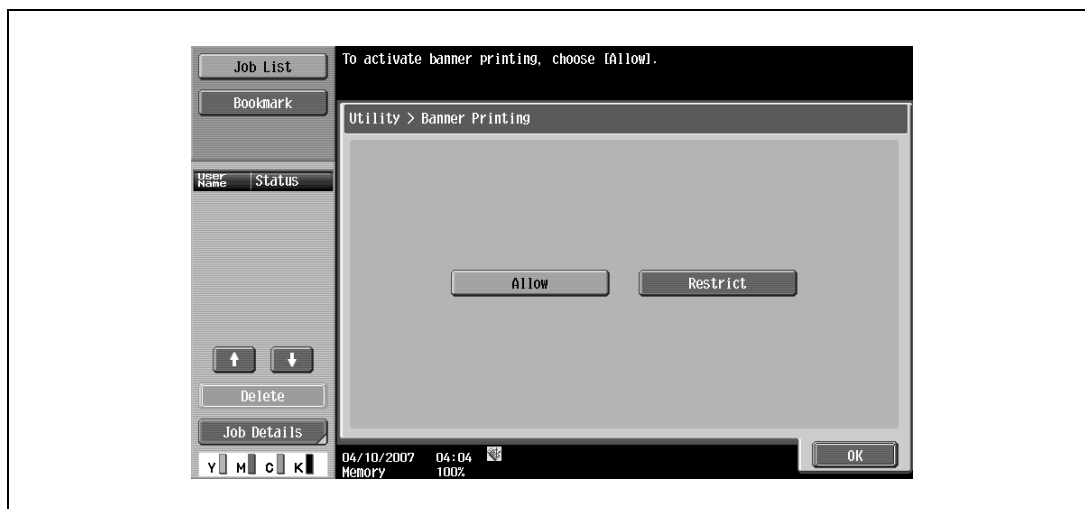


Note

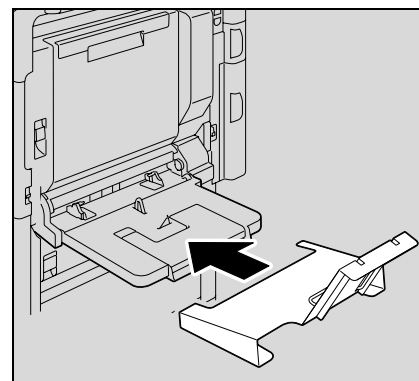
For the PCL Printer Driver, custom size setting can also be preregistered on the Initial Setting tab in the printer driver activated from the Windows "Printer" window ("Printers and Faxes" for Windows XP/Server 2003).

11.10.4 Printing

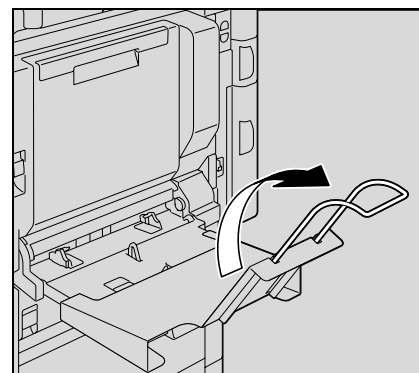
- 1 On the control panel, press the [Utility/Counter] key.
- 2 Touch [6 Banner Printing].
- 3 Touch [Allow], and then [OK].



- 4 Open the bypass tray.
- 5 Install the mounting kit to the bypass tray.

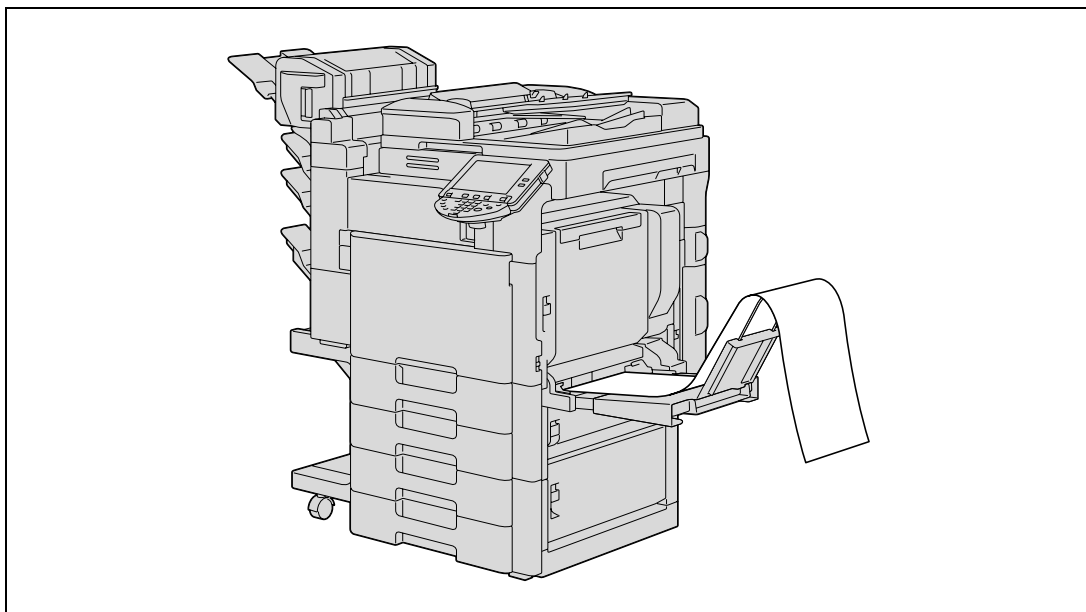


- 6 Erect the guide of the mounting kit.



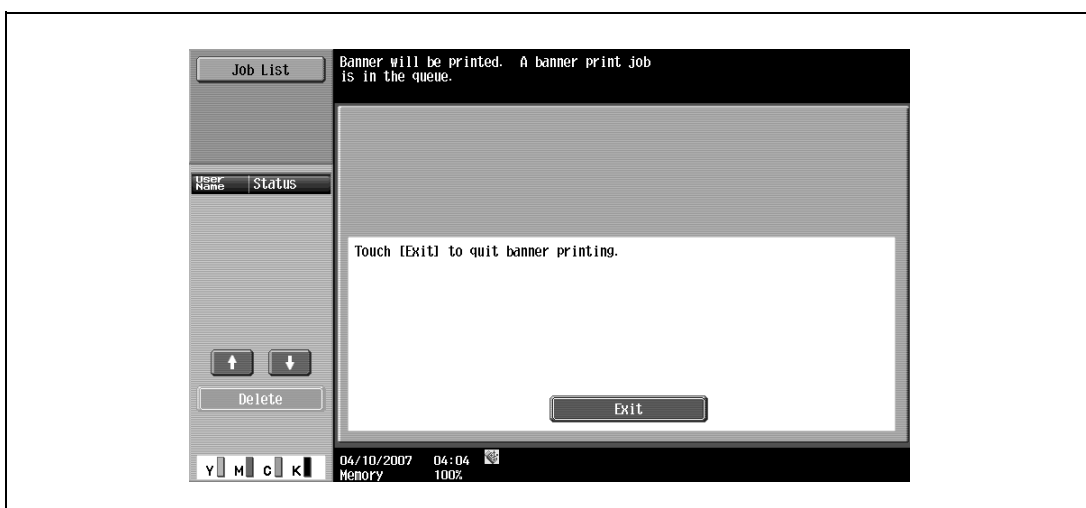
- 7 With the side to be printed on facing down, insert the paper as much as possible into the feed slot.
 - Place in the tray as many sheets as the specified number of copies to be printed.

- 8 Slide the lateral guides of the bypass tray to fit the size of paper being loaded.

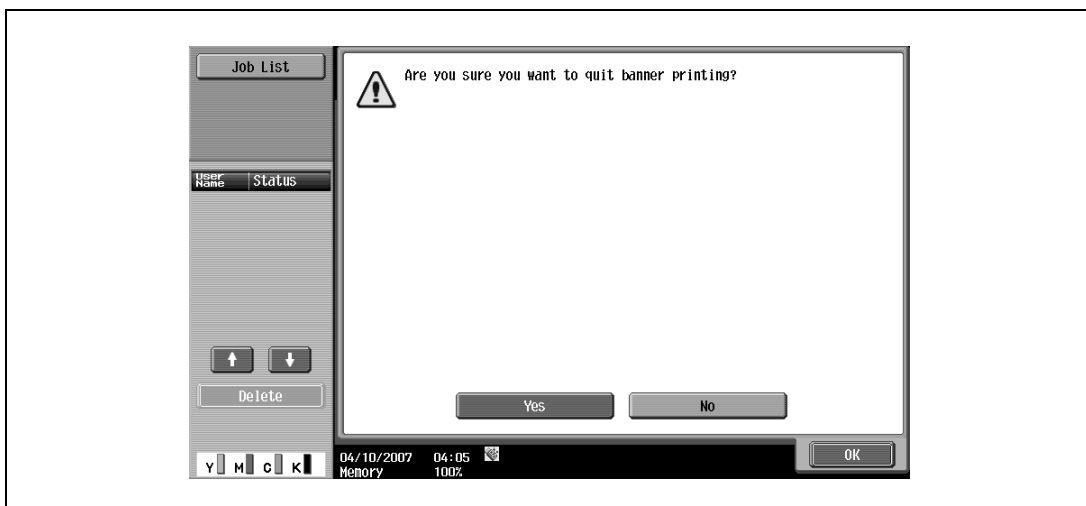


- 9 Send and print the document data of the banner size via the computer.

- 10 To finish printing the job, touch [Exit].



- 11 Select [Yes], and then touch [OK].



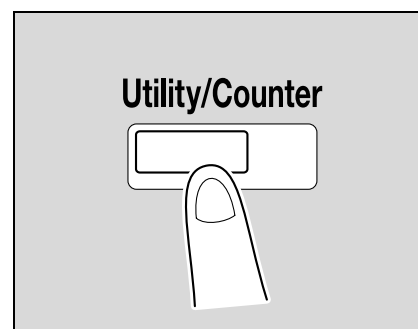
12

Settings on the control panel

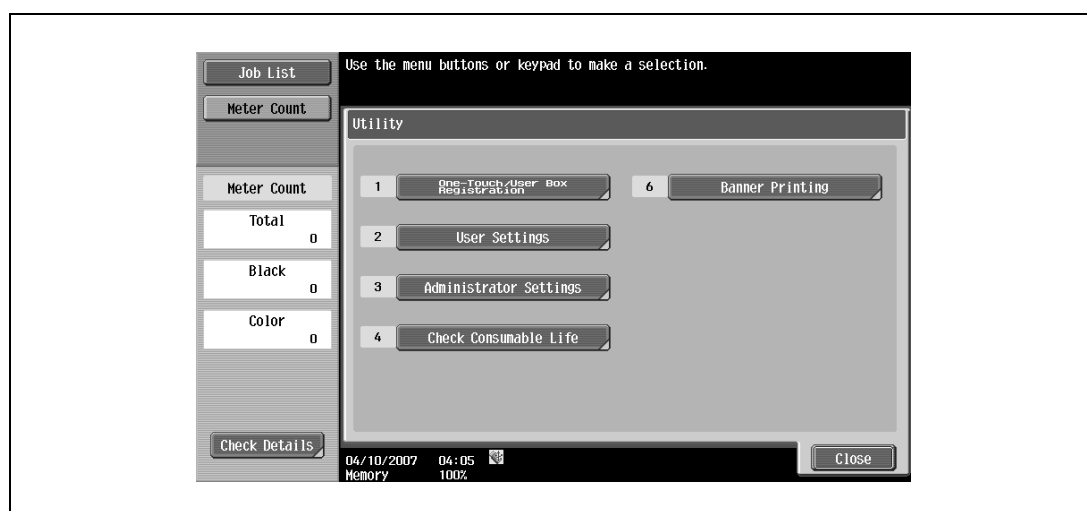
12 Settings on the control panel

12.1 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)

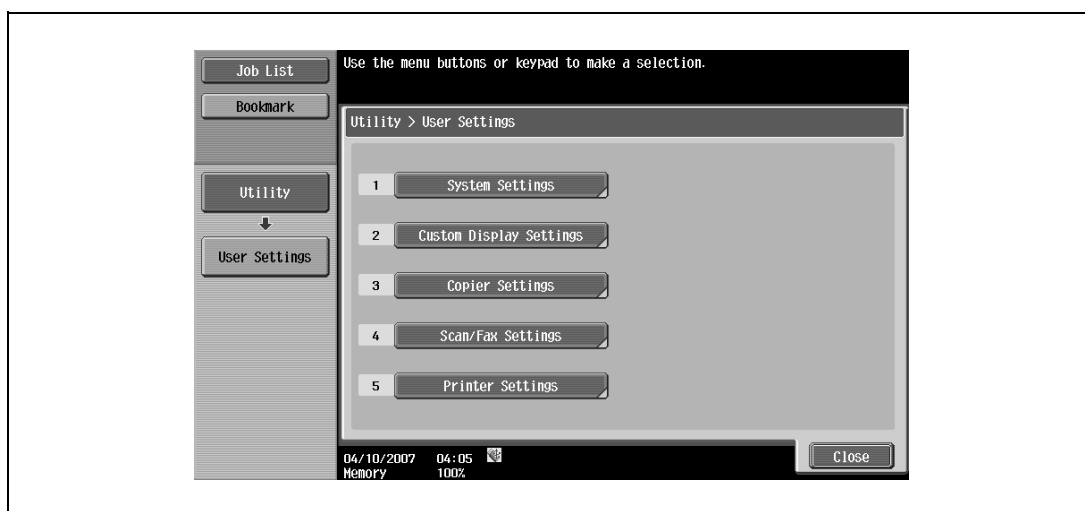
- Auto: Automatically switches between PCL and PS.
- PCL: Only uses PCL.
- PS: Only uses PS.



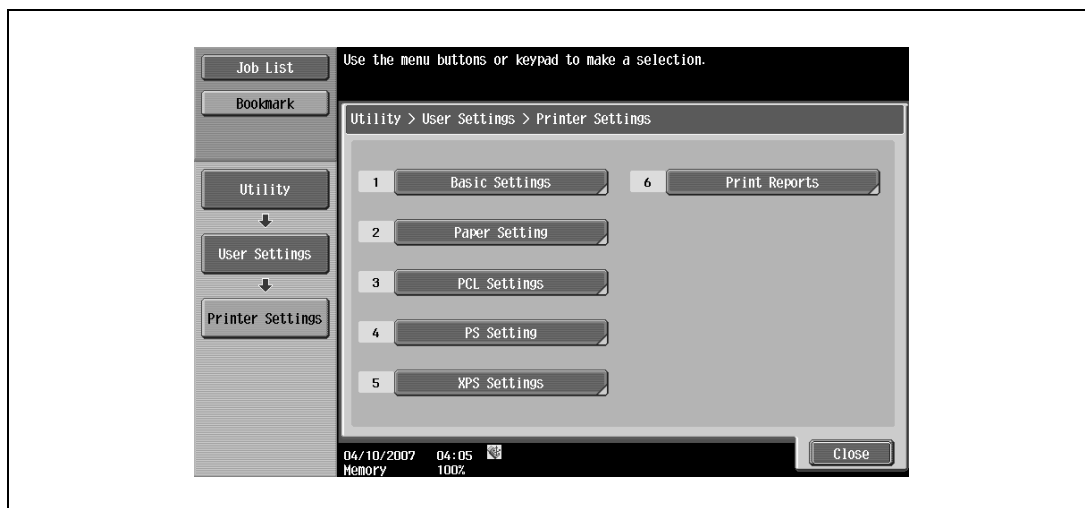
Detail

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

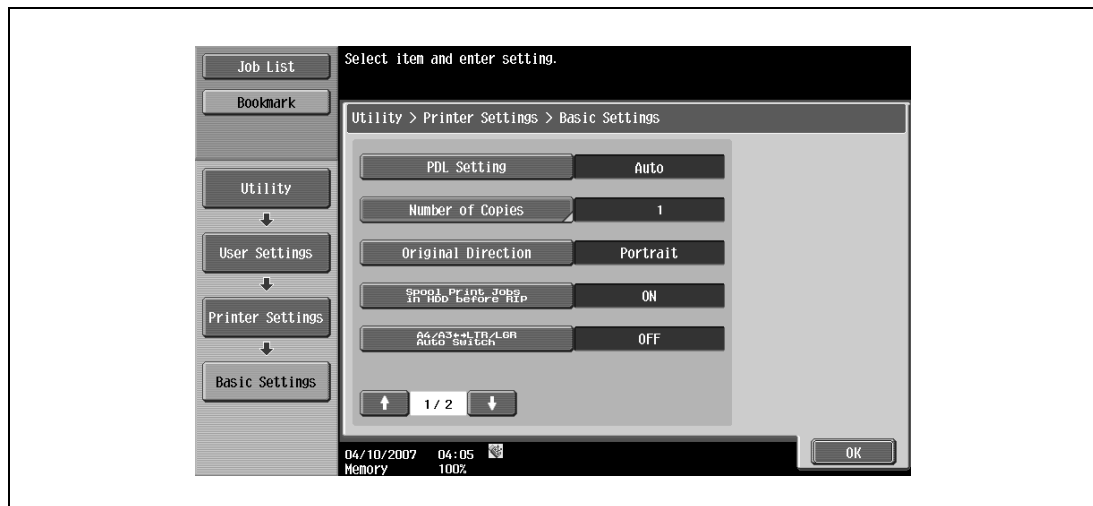
- 1 In the User Settings screen, touch [5 Printer Settings].



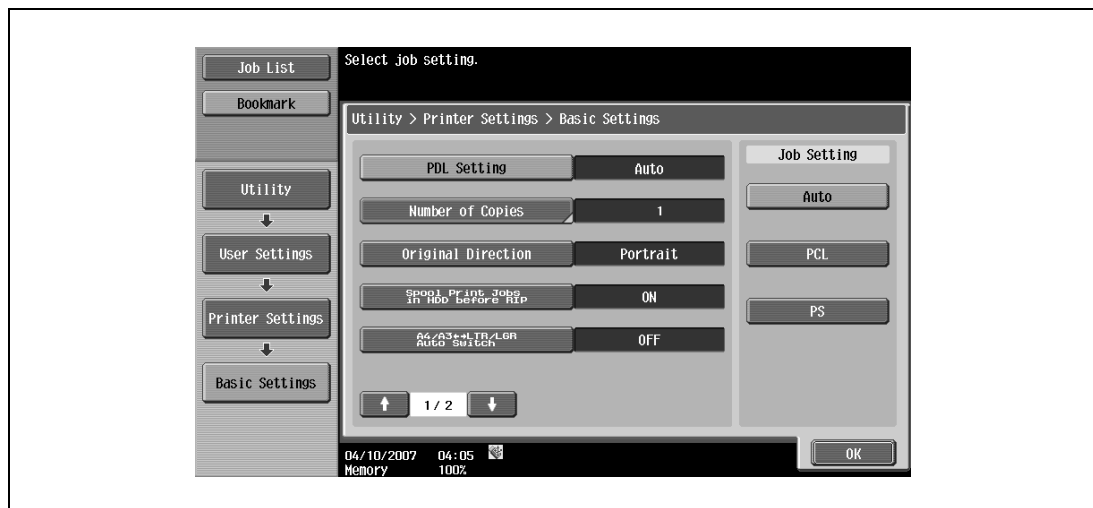
- 2 Touch [1 Basic Settings].



3 Touch [PDL Setting].



4 Touch the button for the desired setting.



12.2.2 Number of Copies

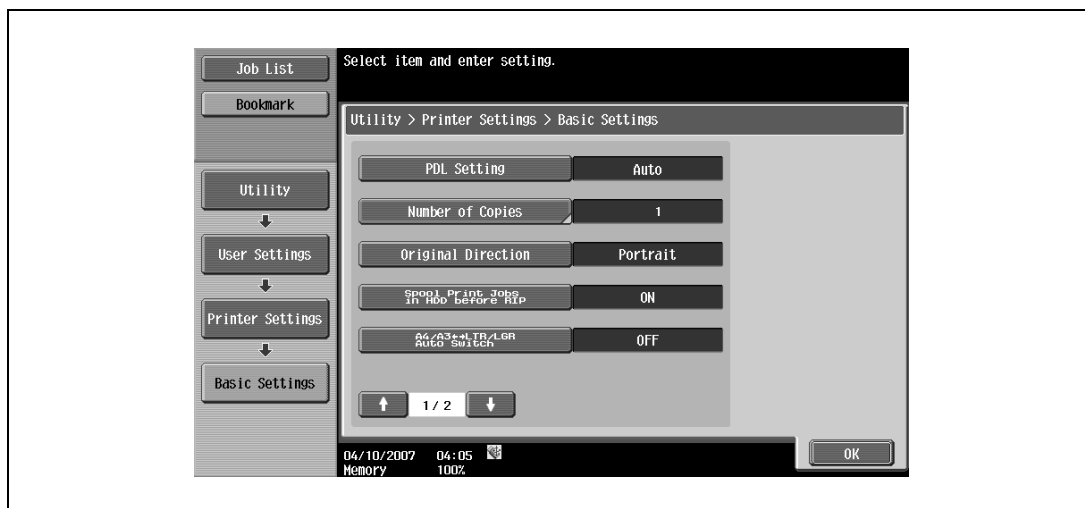
You can specify the default number of copies. (Default setting: 1)



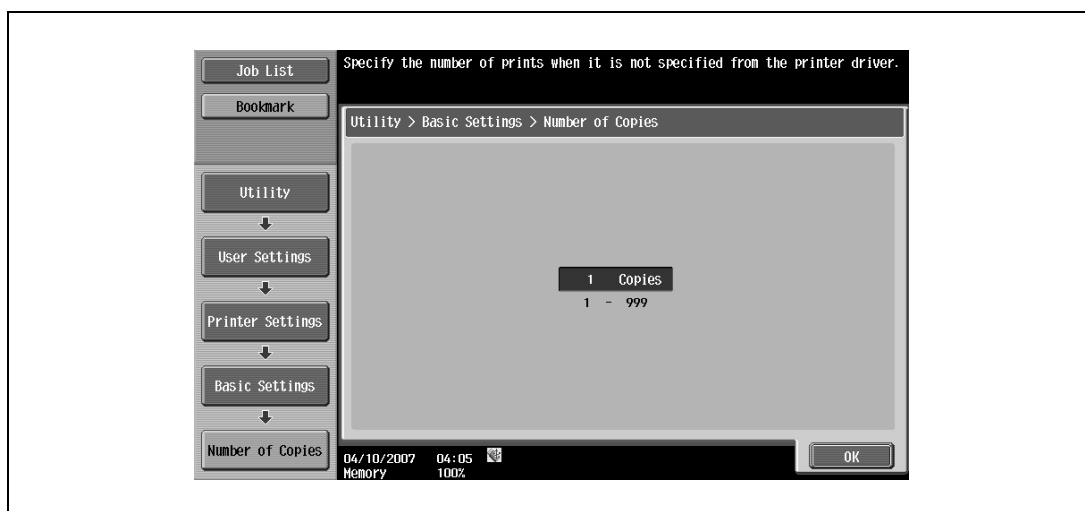
Detail

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 - 999)



- 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)

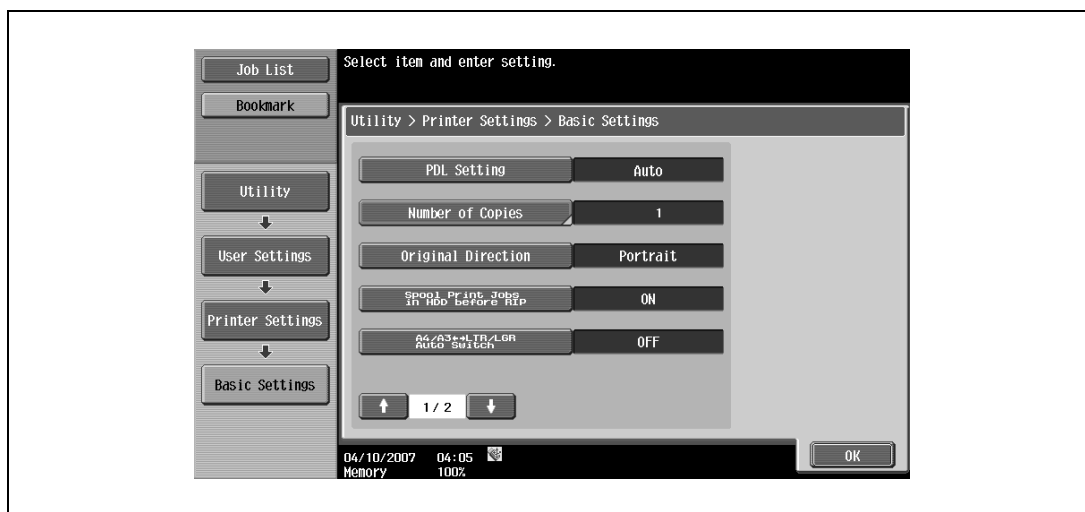
- Portrait: Prints the image vertically on the page.
- Landscape: Prints the image horizontally on the page.



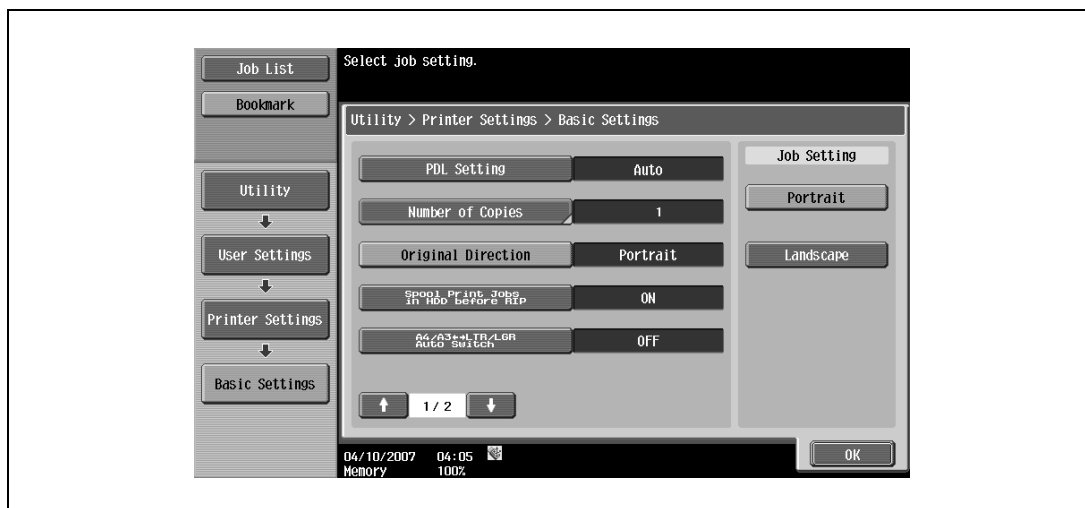
Detail

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 HDD.
- OFF: The print data is not stored in the HDD.



Reminder

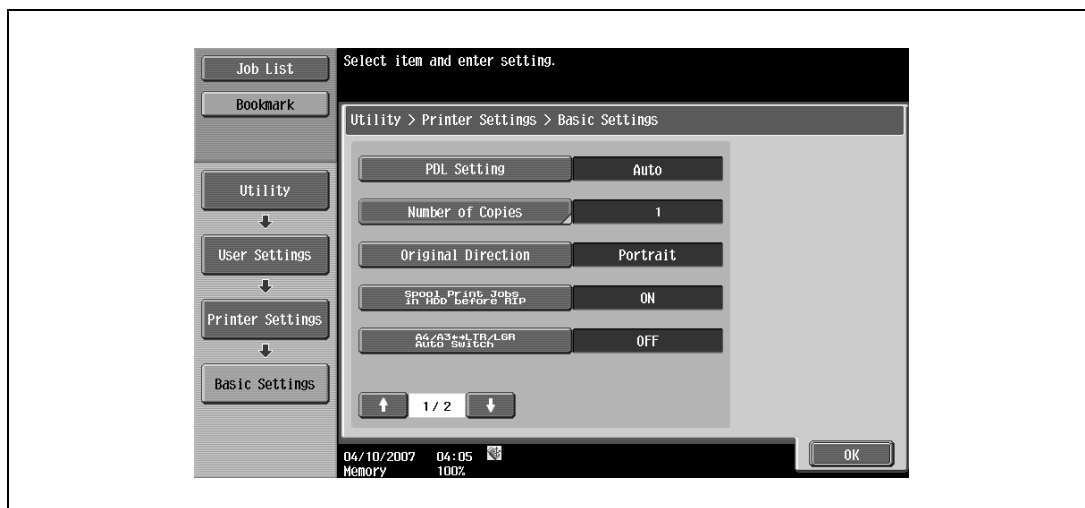
Do not change the setting to "OFF" for normal operation. Printing may fail.



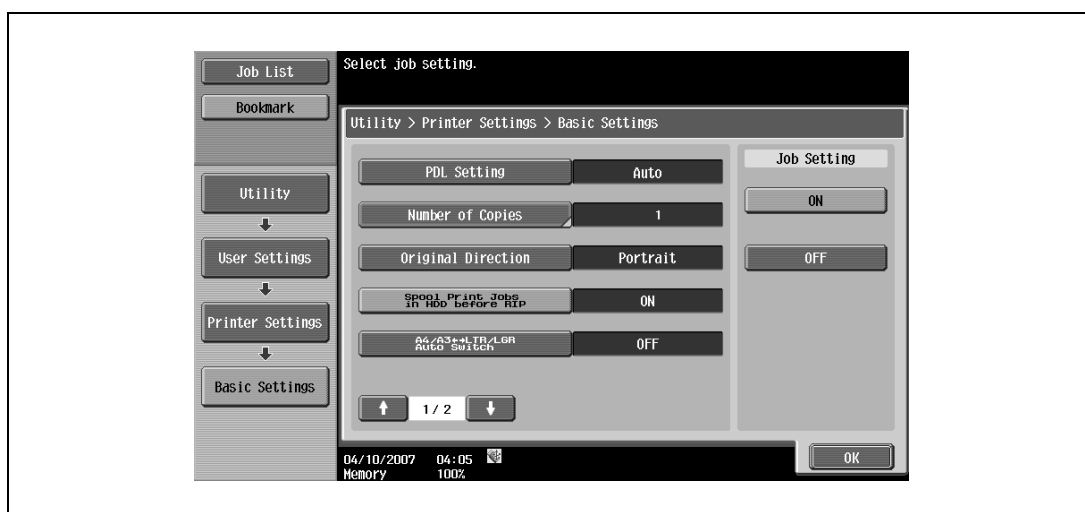
Detail

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 Letter, or A3 and Ledger is executed to use paper of the closest size. (Default setting: OFF)



Note

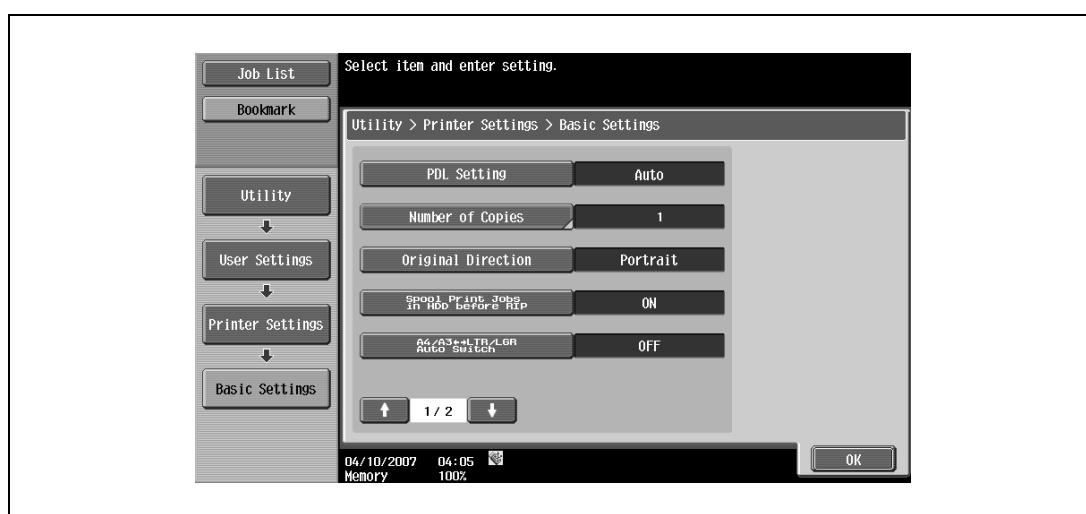
The image may be defected since printing is forced.



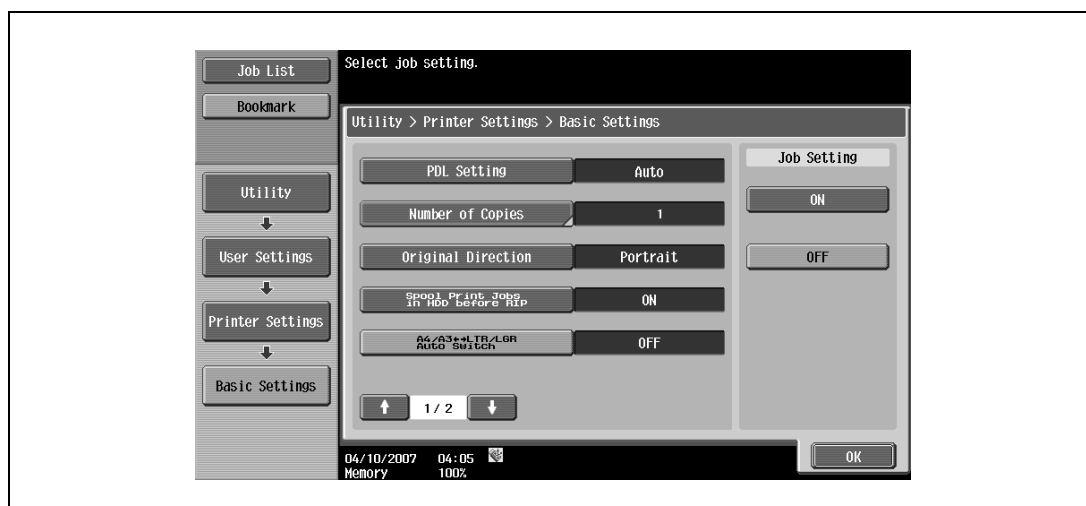
Detail

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)

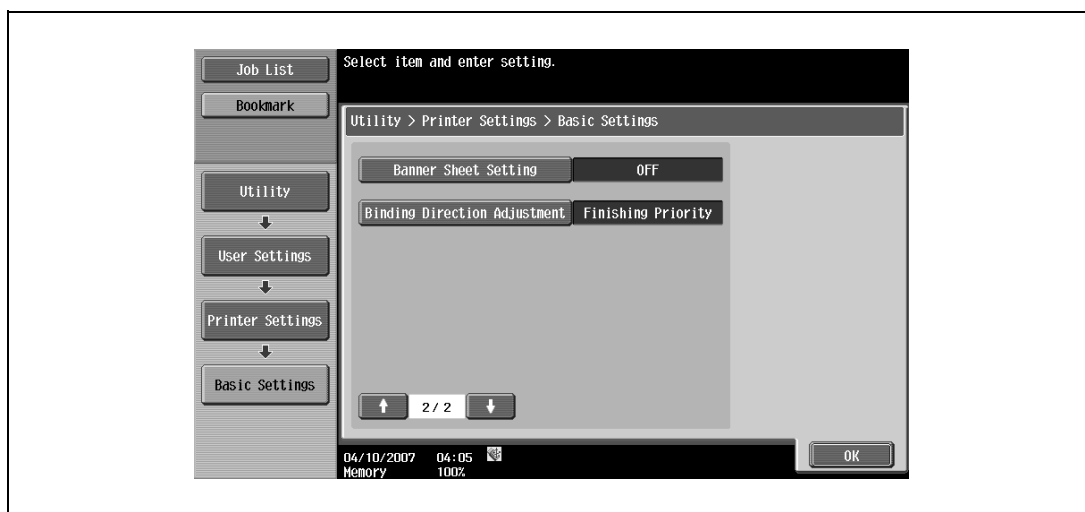
- ON: Prints banner pages.
- OFF: Does not print banner pages.



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". If the desired binding position and width cannot be achieved, select "Finishing Priority".

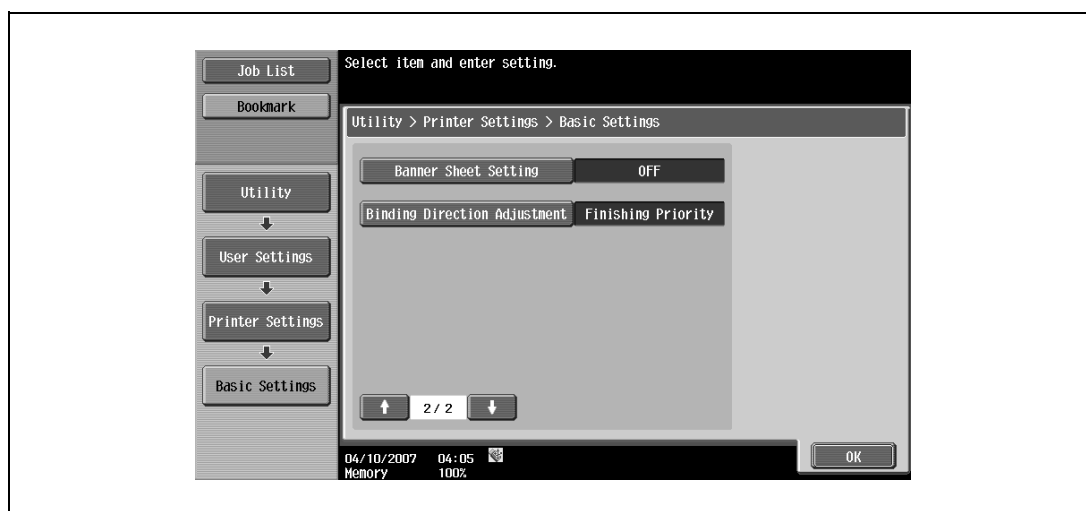
- Finishing Priority: All pages can be processed to an optimum condition because the machine adjusts the binding positions after receiving the print data.
- Productivity Priority: Printing is performed efficiently because the machine processes data reception and printing concurrently.
- Control Adjustment: The machine follows the settings specified in the printer driver without adjusting the binding position.



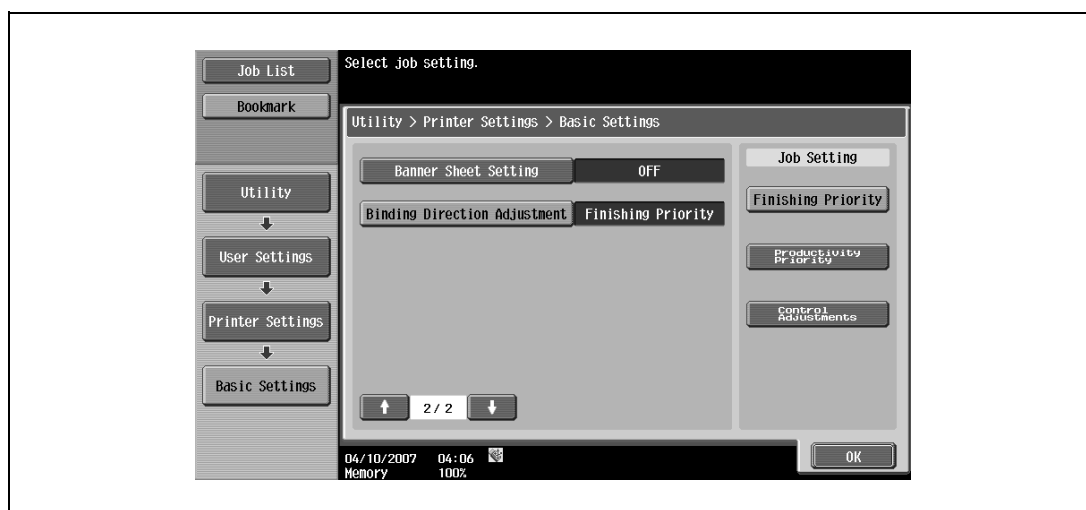
Detail

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 Paper Tray

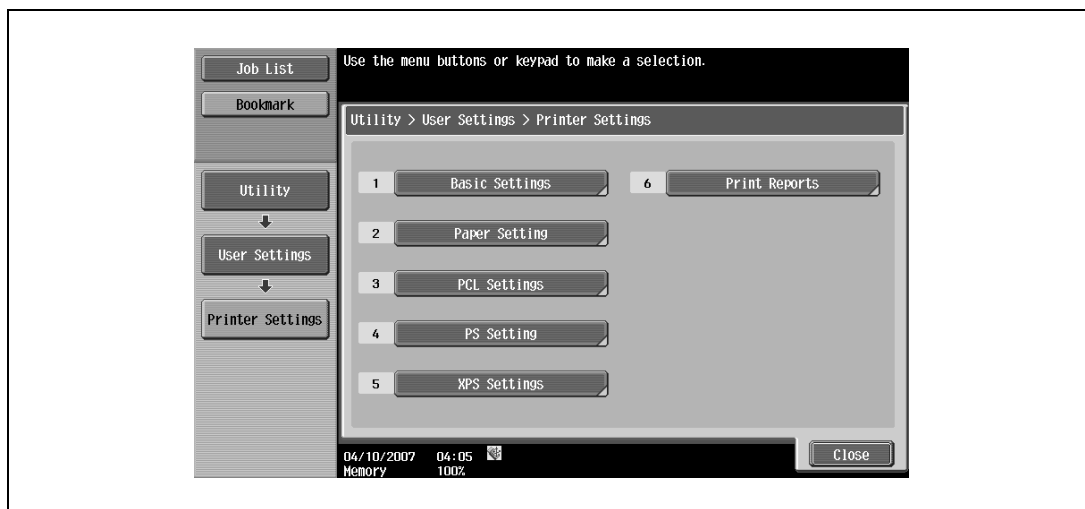
You can specify the default paper tray setting. (Default setting: Auto)



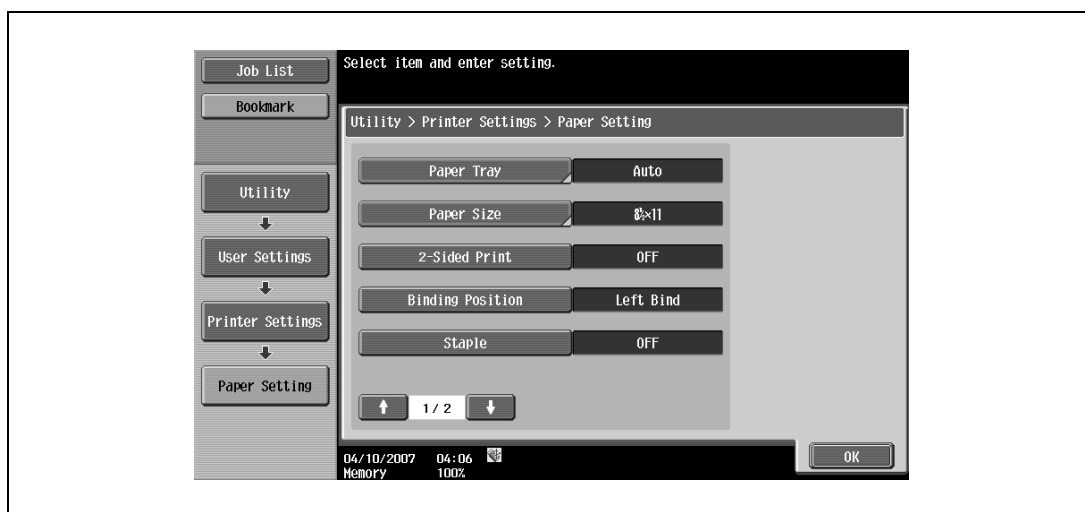
Detail

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

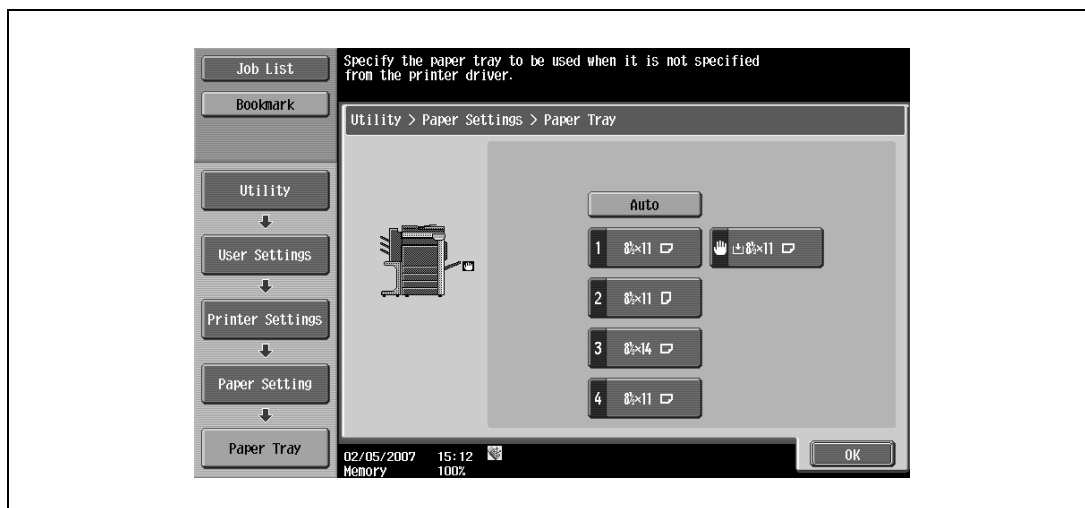
- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [2 Paper Setting].



- 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].

12.2.9 Paper Size

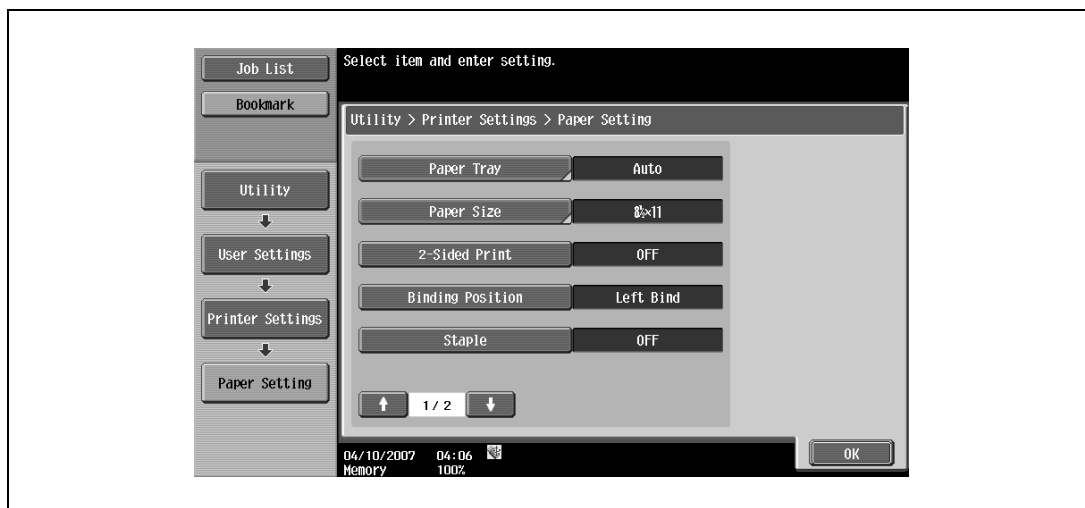
You can specify the default paper size setting. (Default setting: Varies from area to area)



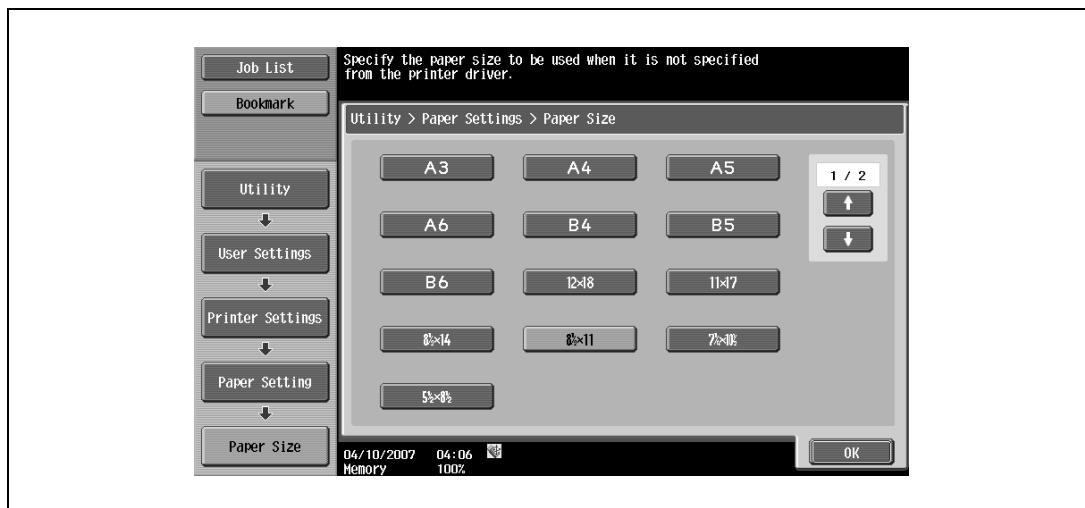
Detail

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].

12.2.10 2-Sided Print

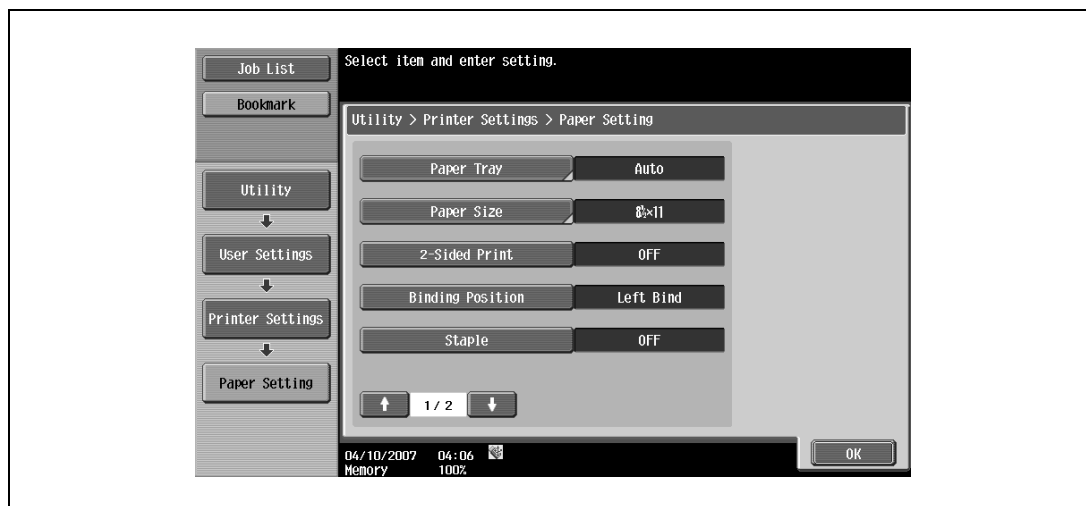
You can specify the default duplex printing setting. (Default setting: OFF)



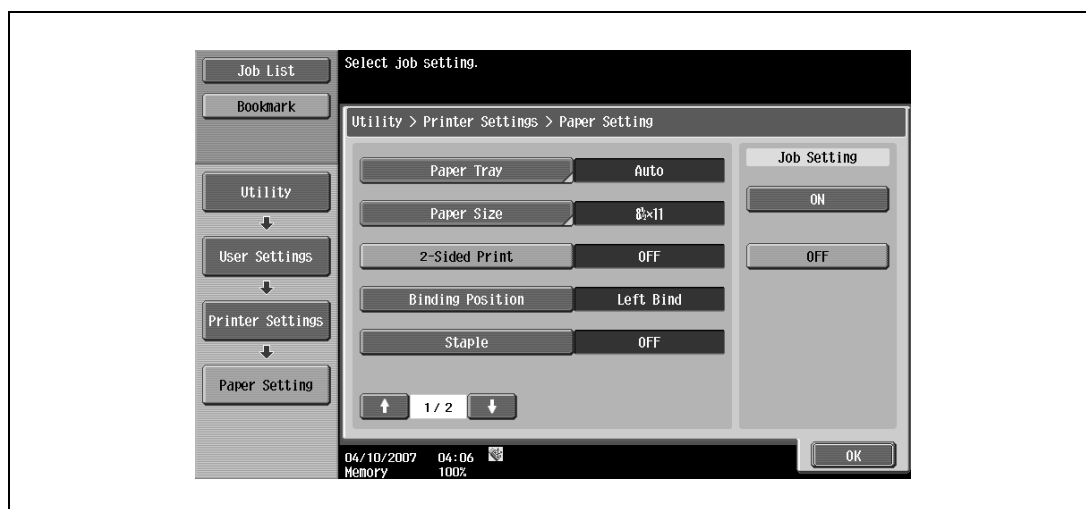
Detail

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.



12.2.11 Binding Position

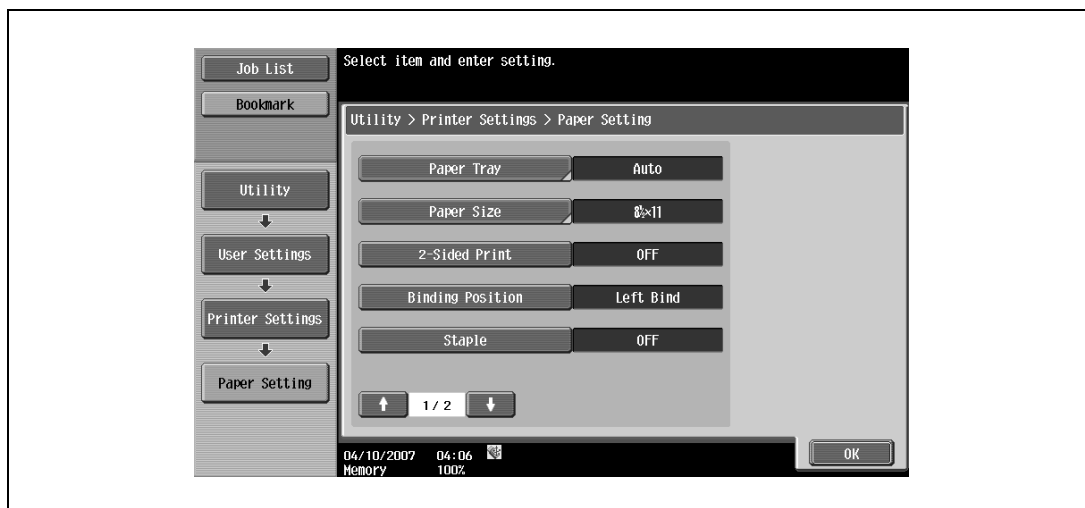
You can specify the default binding position for duplex printing. (Default setting: Left Bind)



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.



12.2.12 Staples

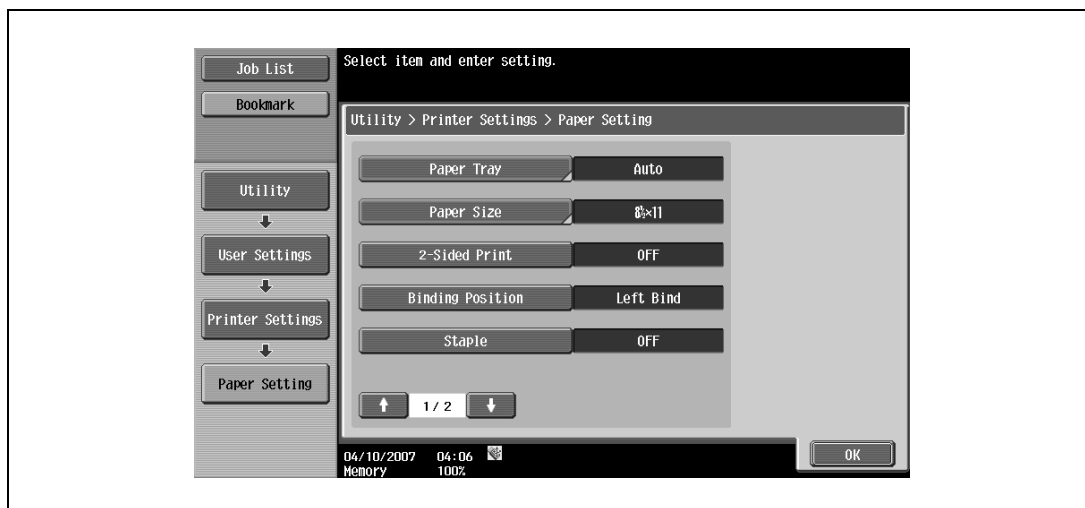
You can specify the staple setting when the data to be printed has no staple setting information. (Default setting: OFF)



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.



12.2.13 Punch

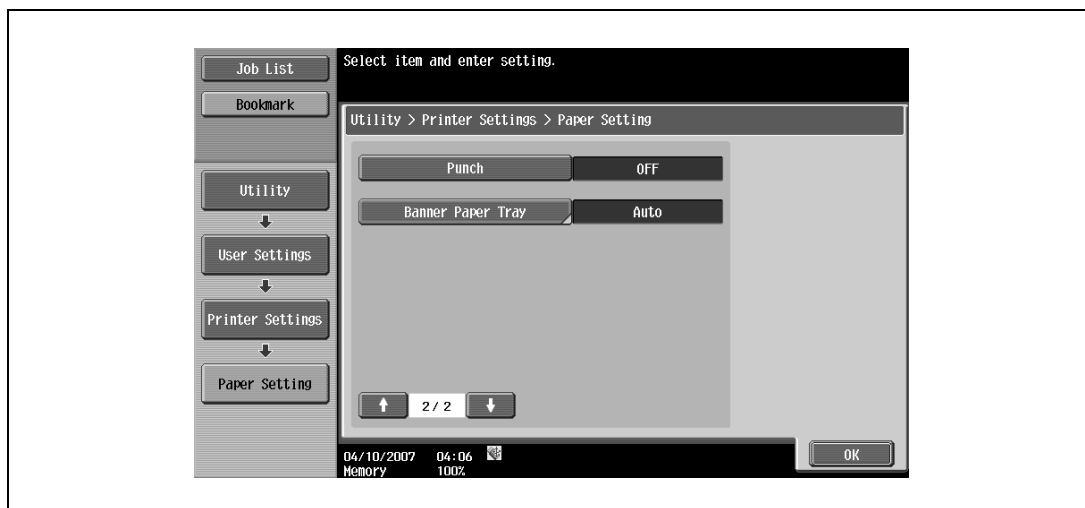
You can specify the punch setting when the data to be printed has no punch setting information. (Default setting: OFF)



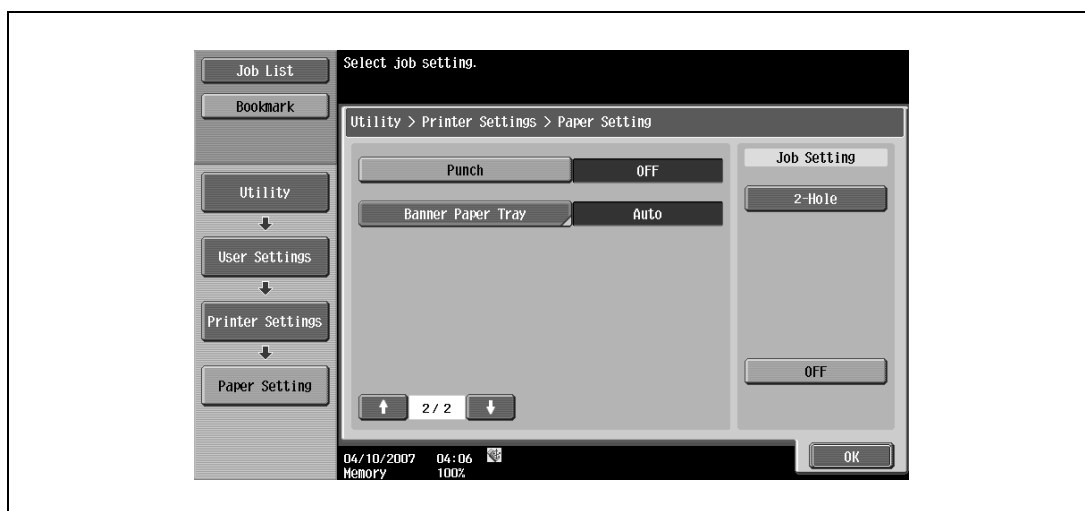
Detail

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 is installed on the optional finisher.



12.2.14 Banner Paper Tray

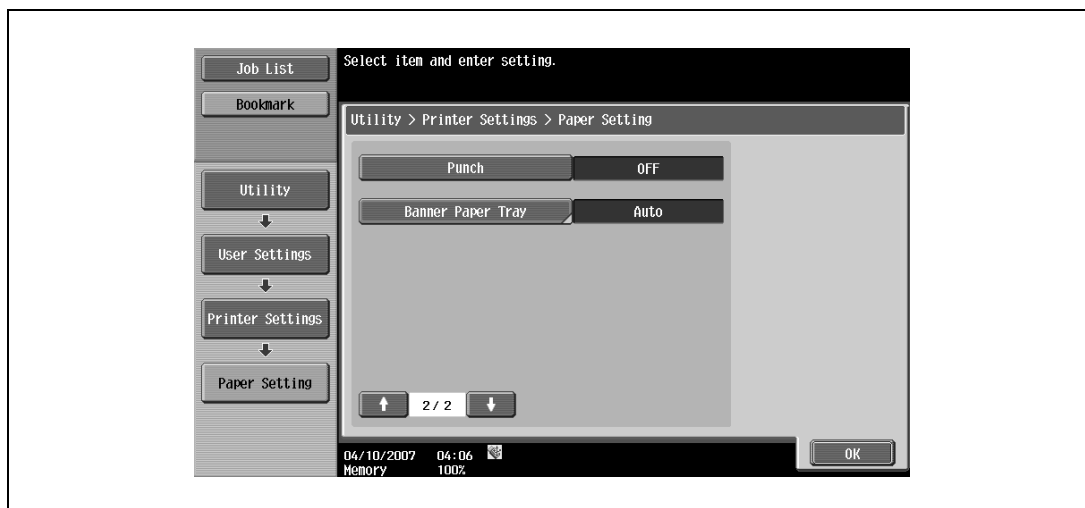
Select the paper tray used to print banner paper. (Default setting: Auto)



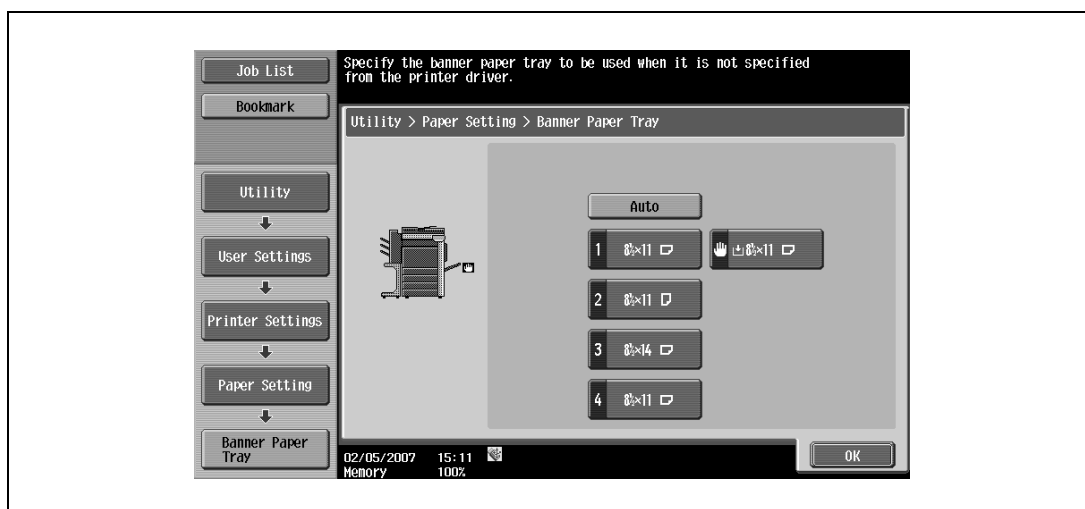
Detail

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.



12.2.15 Font Settings

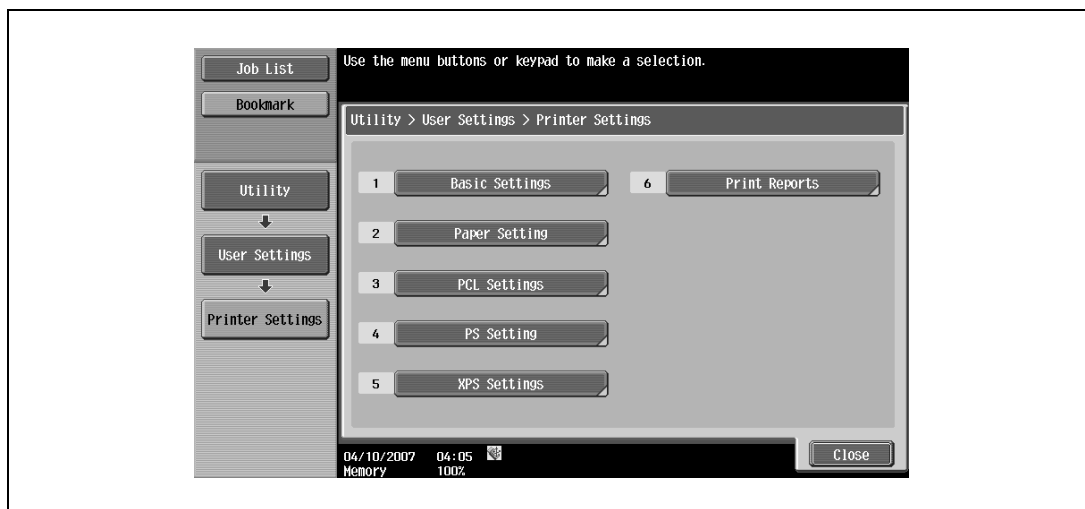
You can specify the default font setting. (Default setting: Courier)



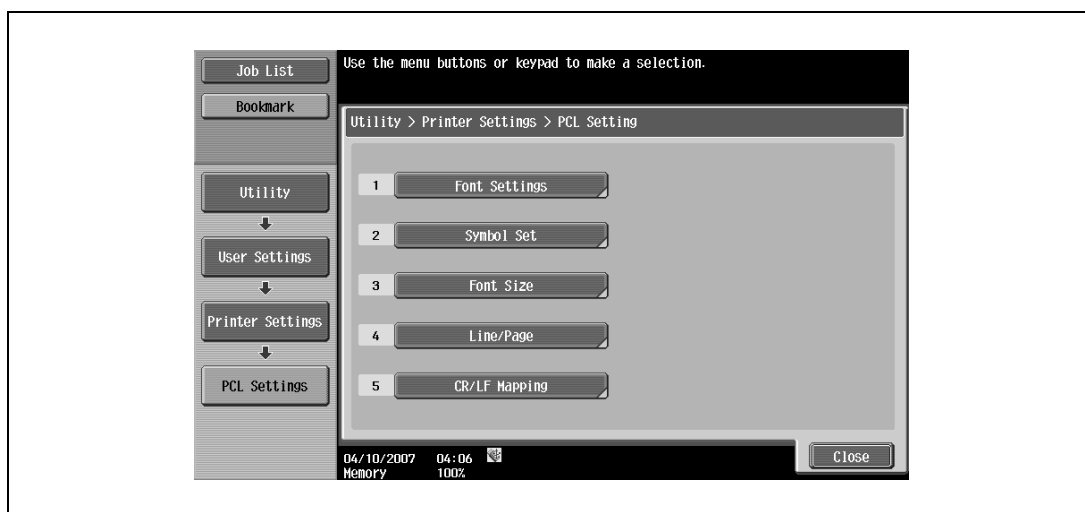
Detail

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

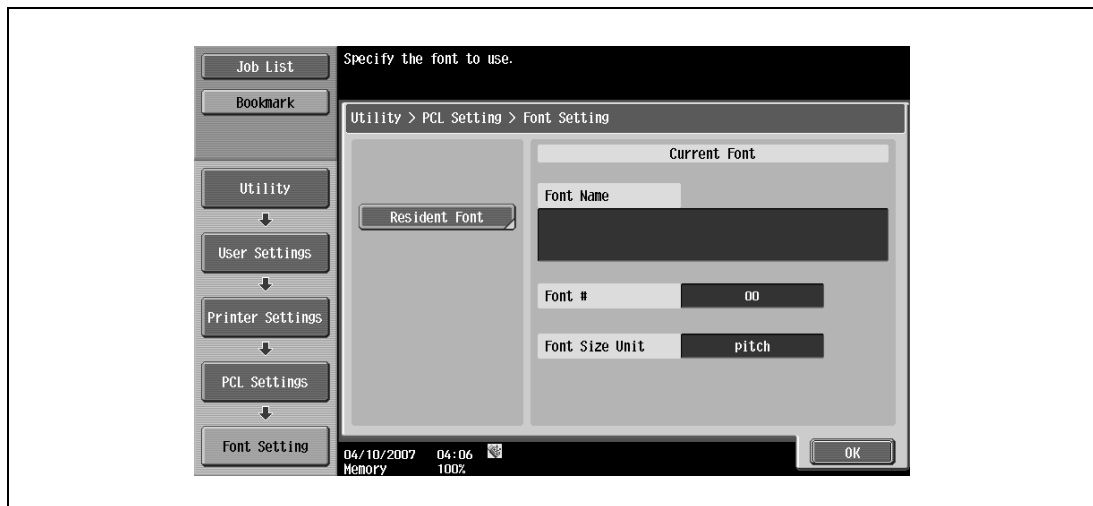
- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [3 PCL Settings].



- 3 Touch [1 Font Settings].

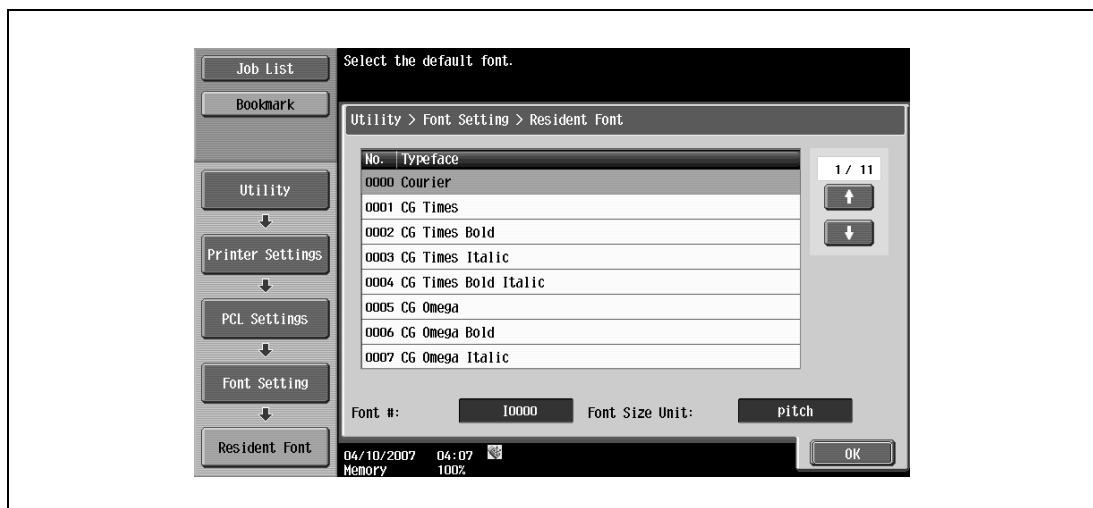




4 Touch [Resident Font].



- 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].

12.2.16 Symbol Set

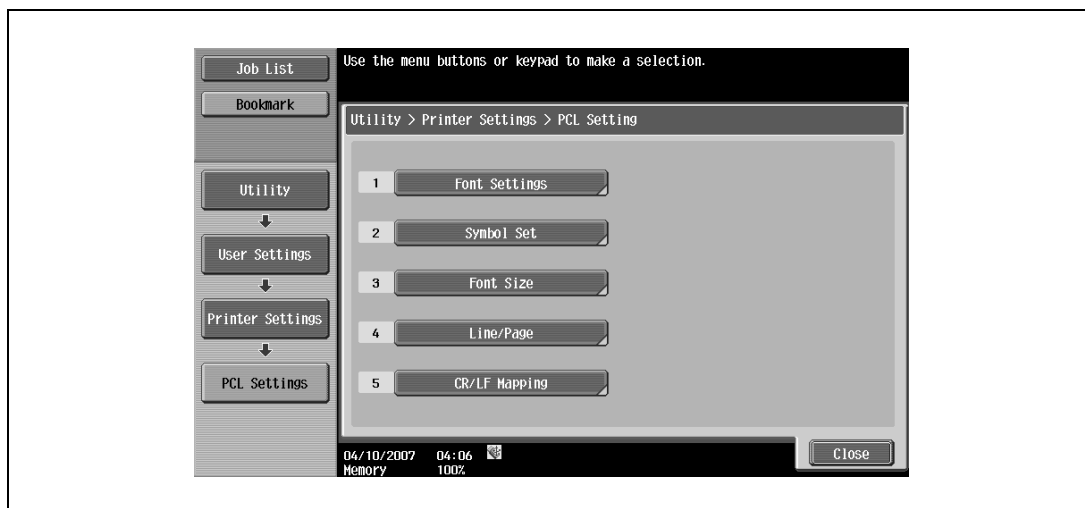
You can specify the default font symbol set setting. (Default setting: Varies from area to area)



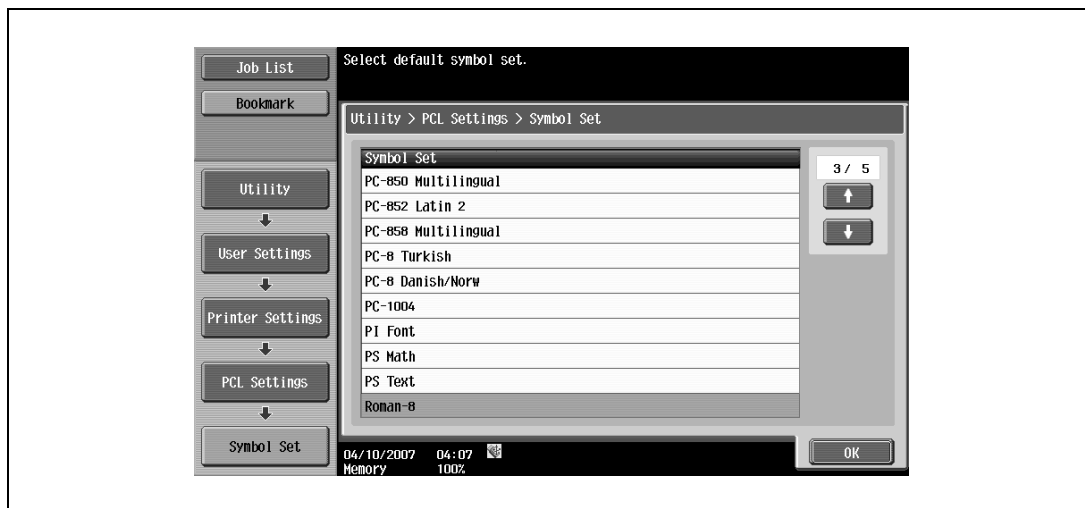
Detail



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].

12.2.17 Font Size

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

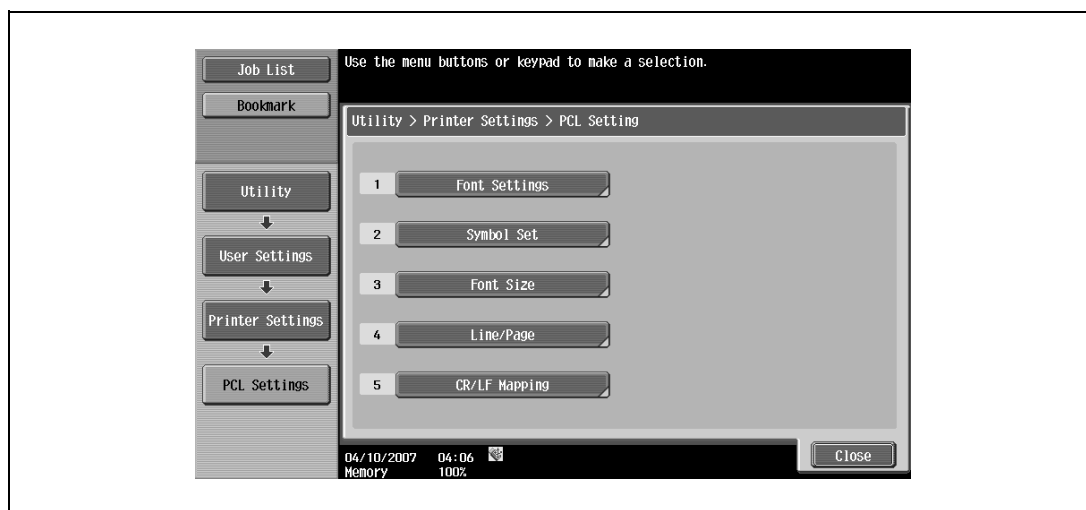
- Scalable Font: Specifies the font size in points.
- Bitmap Font: Specifies the width of the fixed-width font in pitches.



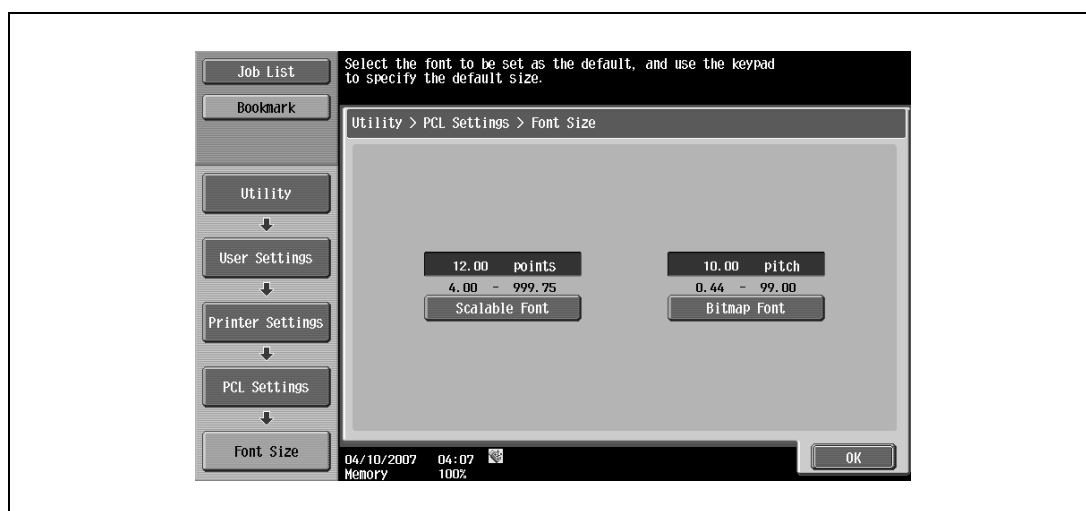
Detail

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.

12.2.18 Line/Page

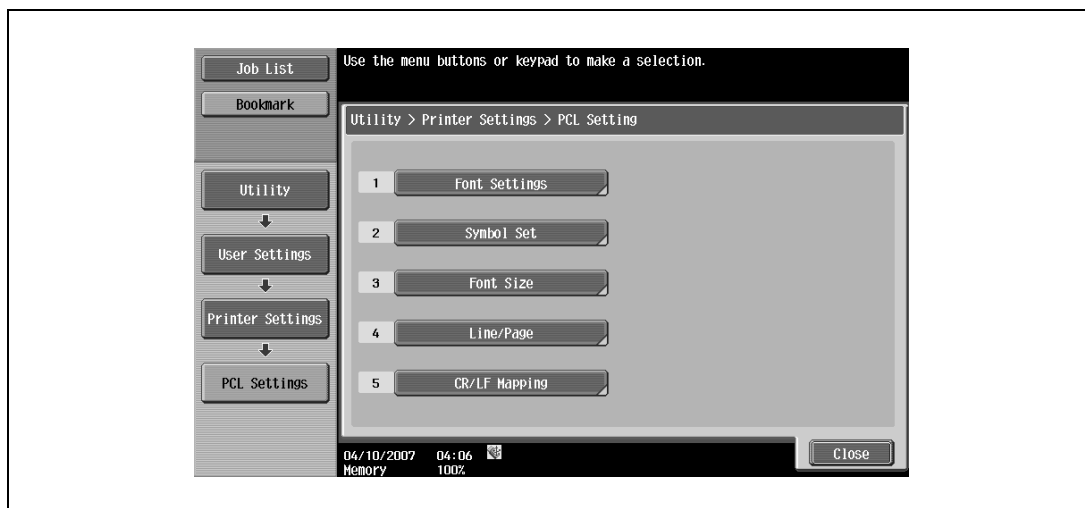
You can specify the number of lines per page when printing text. (Default setting: Varies from area to area)



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.

12.2.19 CR/LF Mapping

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

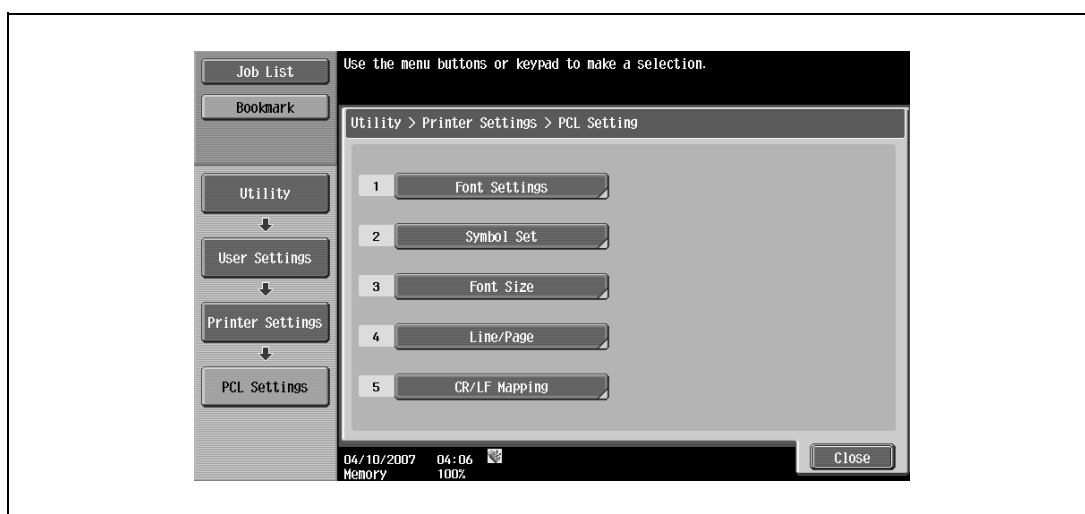
- [Mode 1]: Substitutes CR with CR-LF.
- [Mode 2]: Substitutes LF with CR-LF.
- [Mode 3]: Substitutes with CR-LF.
- [OFF]: Does not perform substitution.



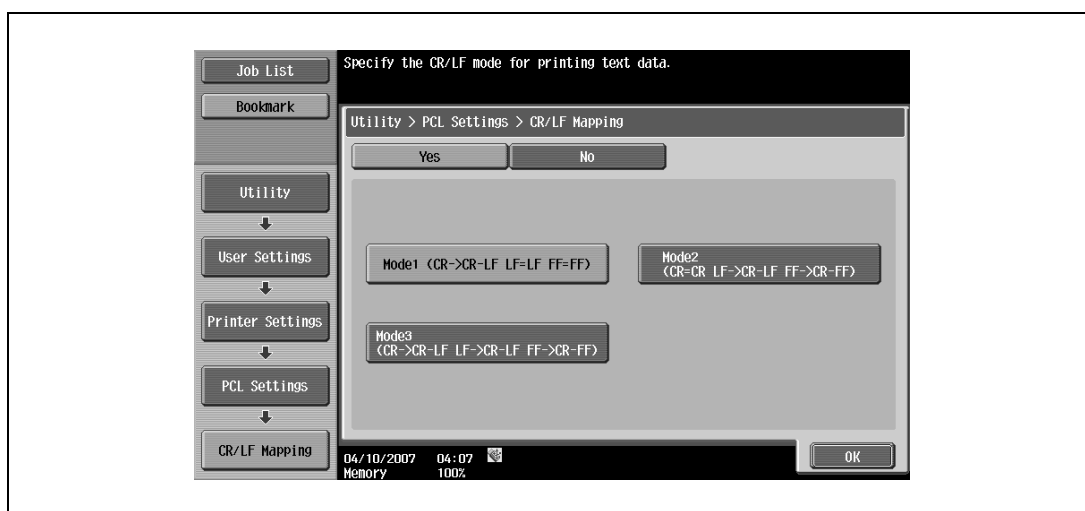
Detail

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].

12.2.20 Print PS Errors

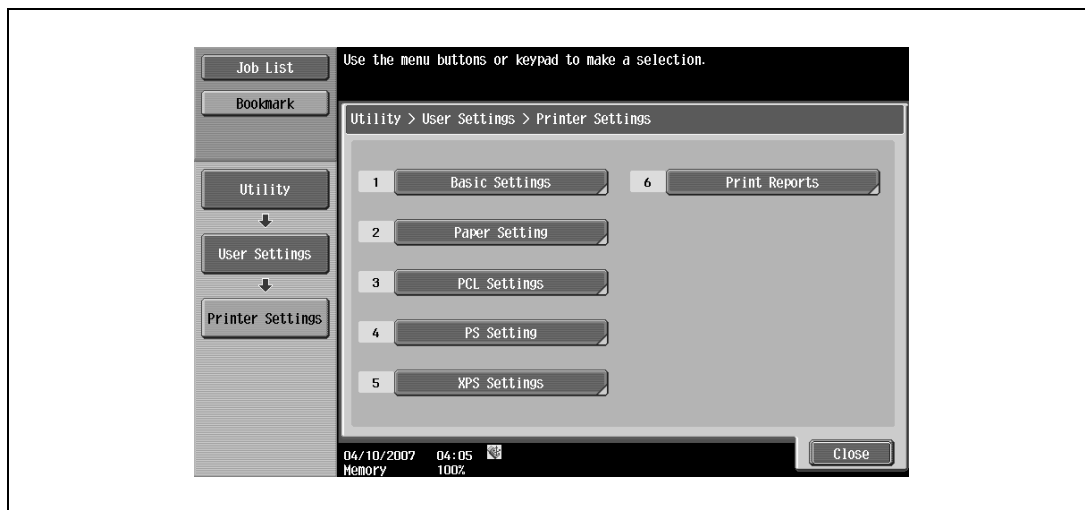
You can specify whether to print the error message when an error occurs during PS rasterization. (Default setting: OFF)



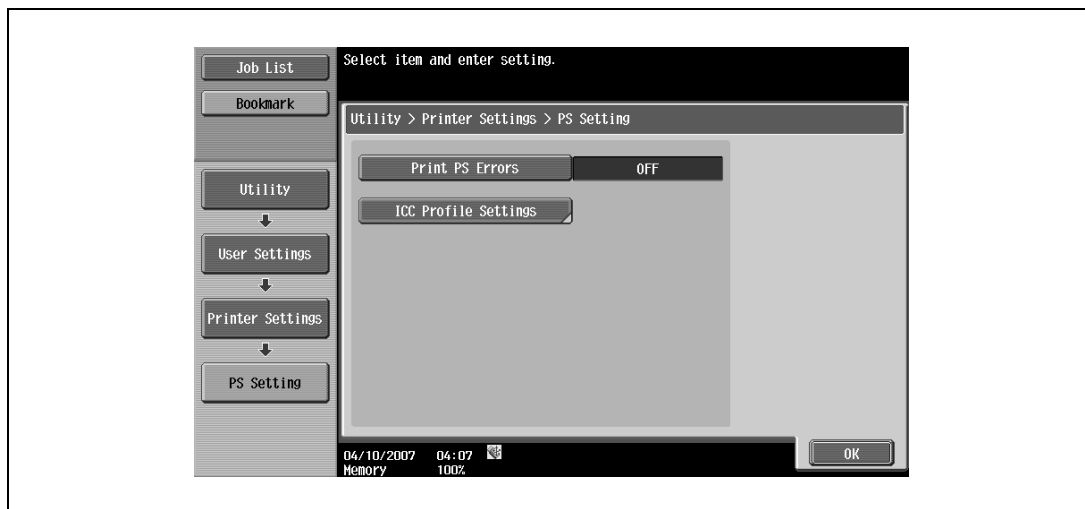
Detail

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.



12.2.21 ICC Profile Settings

You can specify the default profile setting that is displayed in the printer driver.

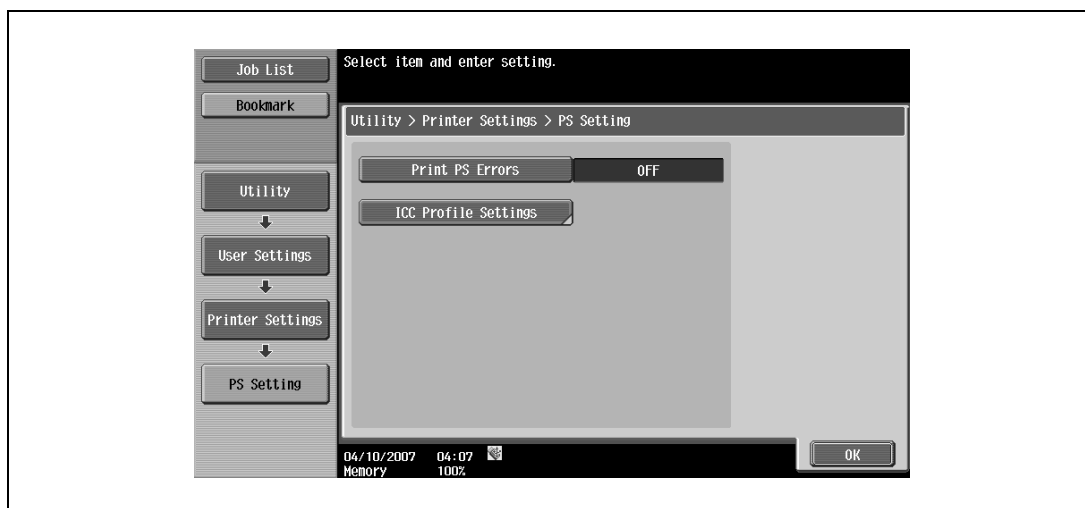


Detail

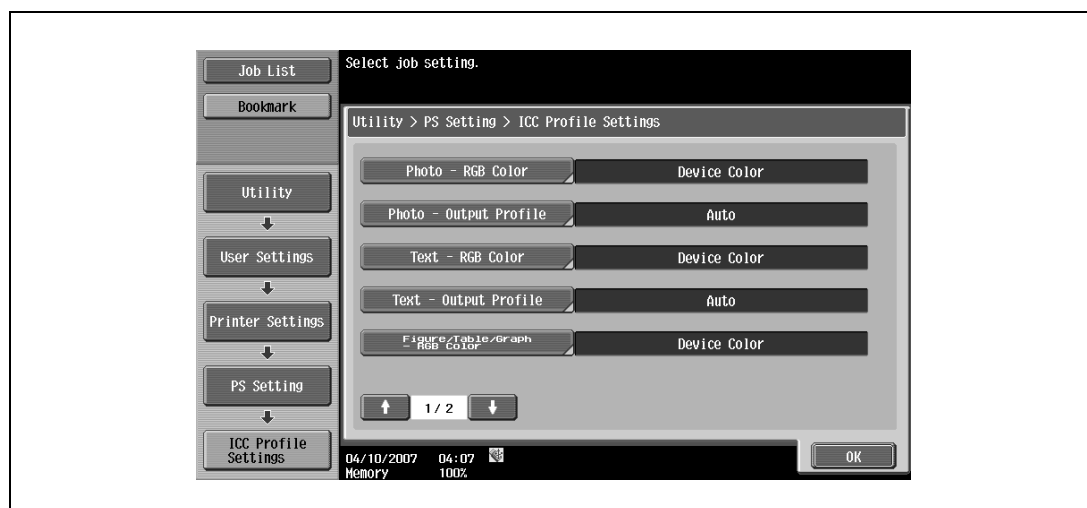
For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.

For the procedure for selecting ICC profiles in the printer driver, refer to "ICC profile settings" on page 11-33.

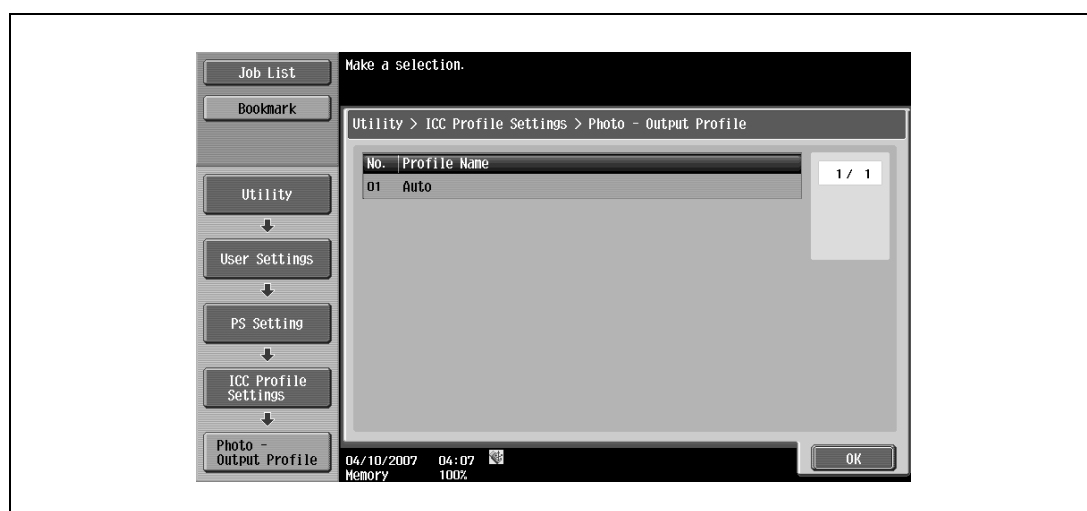
- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [4 PS Settings].
- 3 Touch [ICC Profile Settings].



- 4 Touch the desired parameter.



- 5 Touch the desired profile.



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

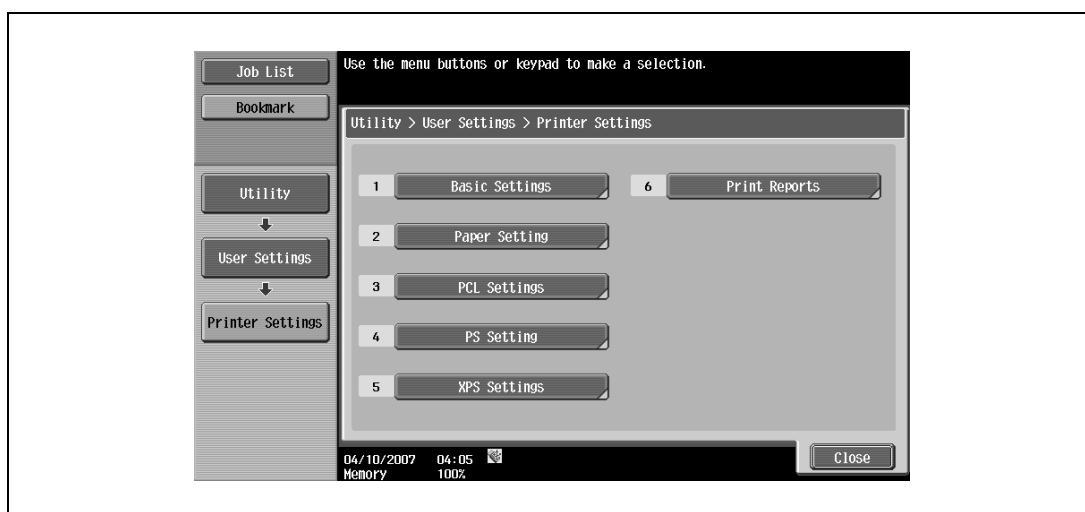
For details on displaying the User Settings screen, refer to "Displaying the User Settings screen" on page 12-3.



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 12-41.

- 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 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.

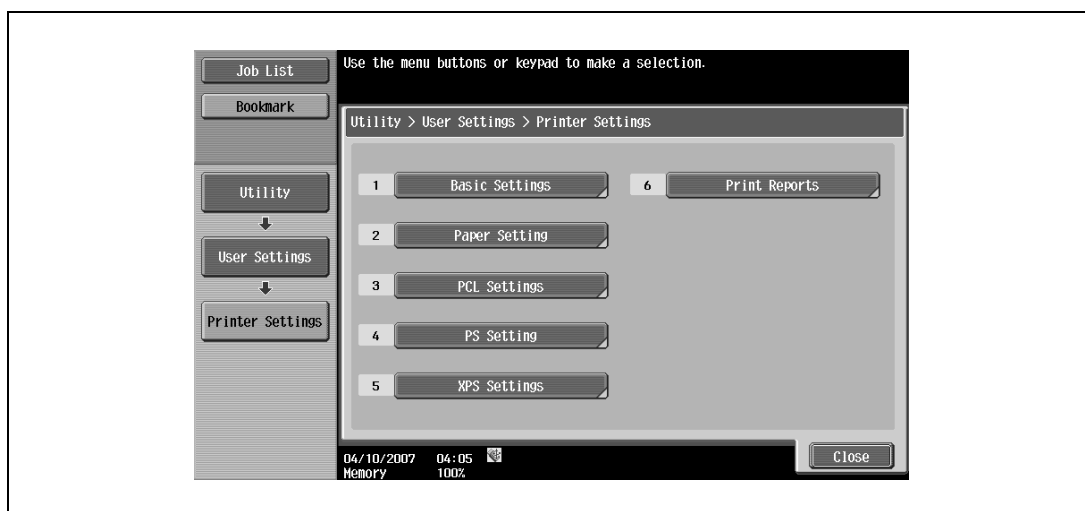
- Configuration Page: Outputs a list of settings in the machine.
- Demo Page: Outputs a test page.
- PCL Font List: Outputs the PCL font list.
- PS Font List: Outputs the PS font list.



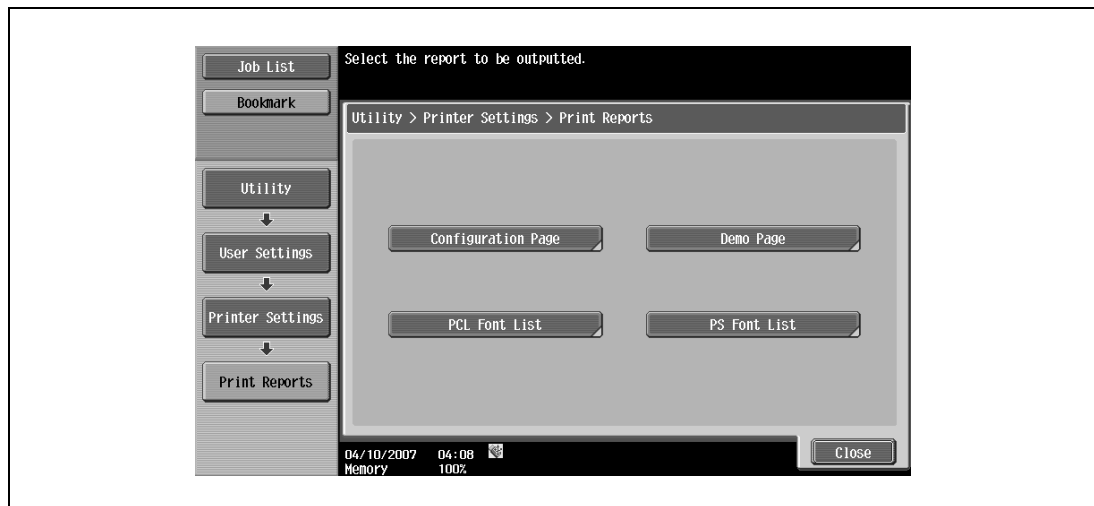
Detail

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

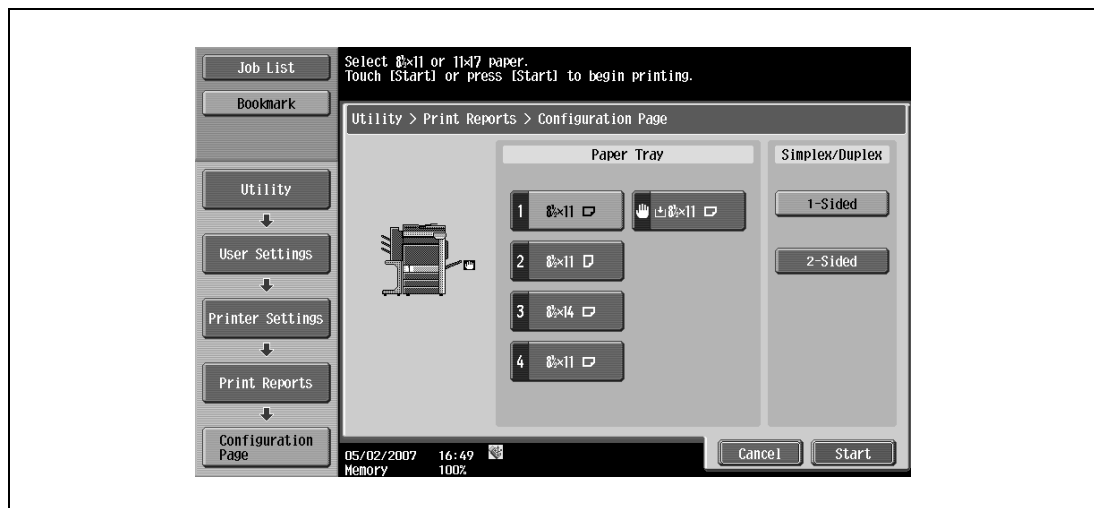
- 1 In the User Settings screen, touch [5 Printer Settings].
- 2 Touch [6 Print Reports].



- 3 Touch the button for the desired setting.



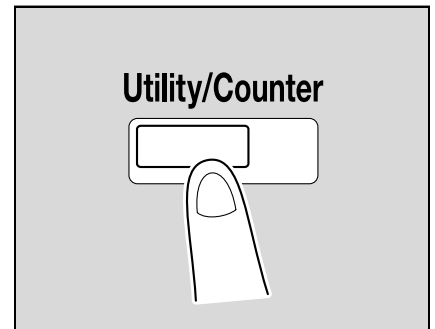
- 4 Touch the button for the desired paper tray and touch [1-Sided] or [2-Sided].



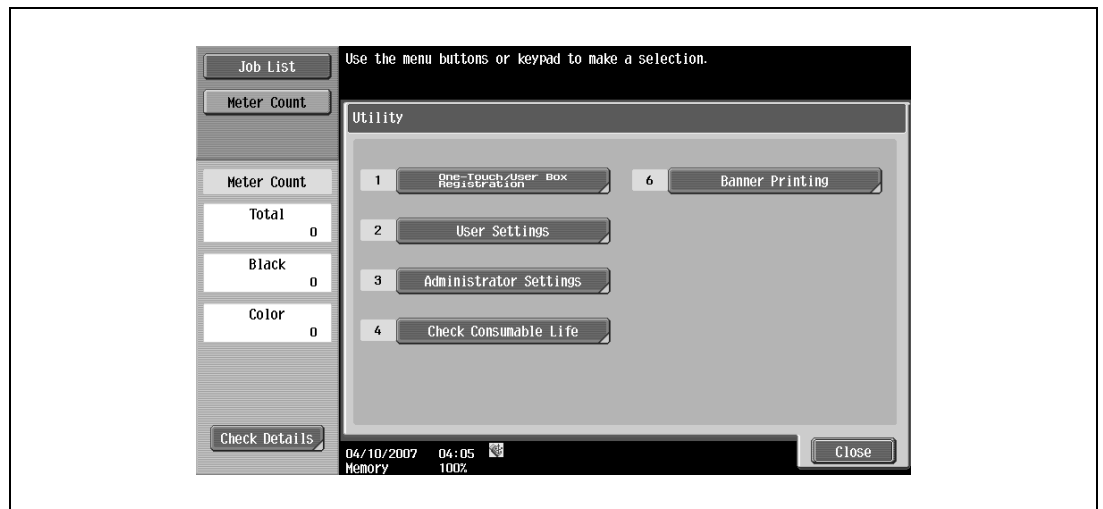
- 5 To print a report, touch [Start] or press the [Start] key.

12.3 Displaying the Administrator Settings screen

- 1 Press the [Utility/Counter] key.



- 2 Touch [3 Administrator Settings].

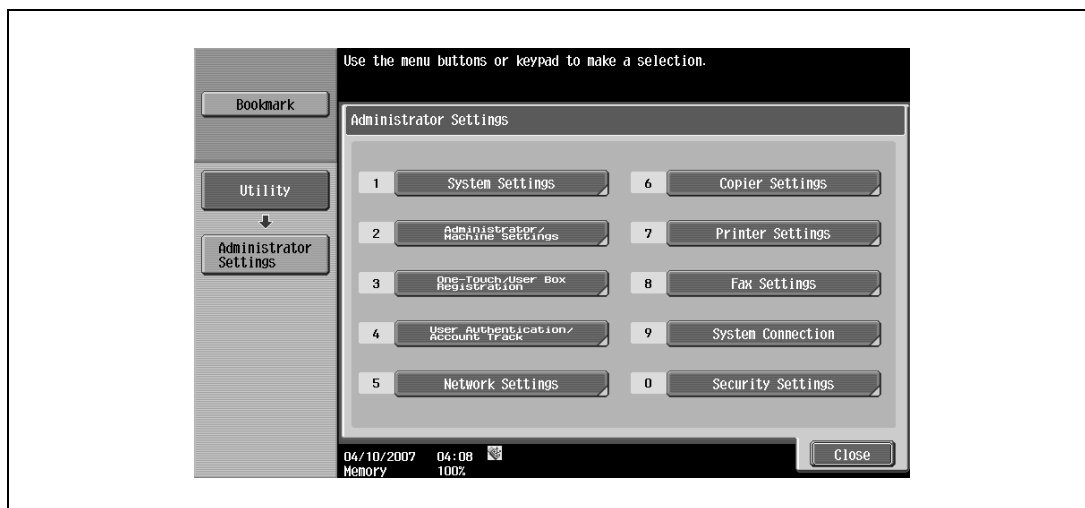


- 3 Type in the password, and then touch [OK].



- 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; Fax - Batch Print)



Detail

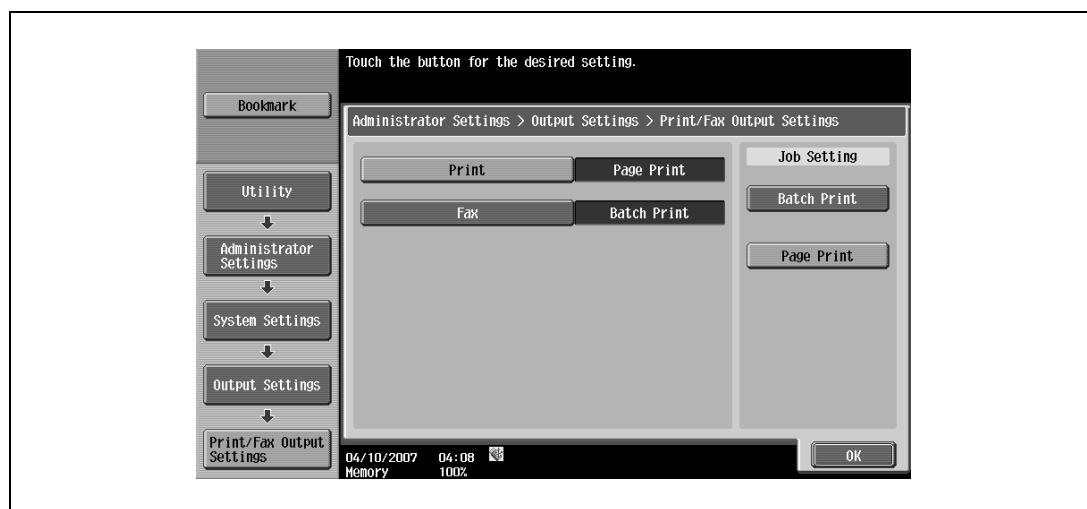
For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-33.

- 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] or [Fax].
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

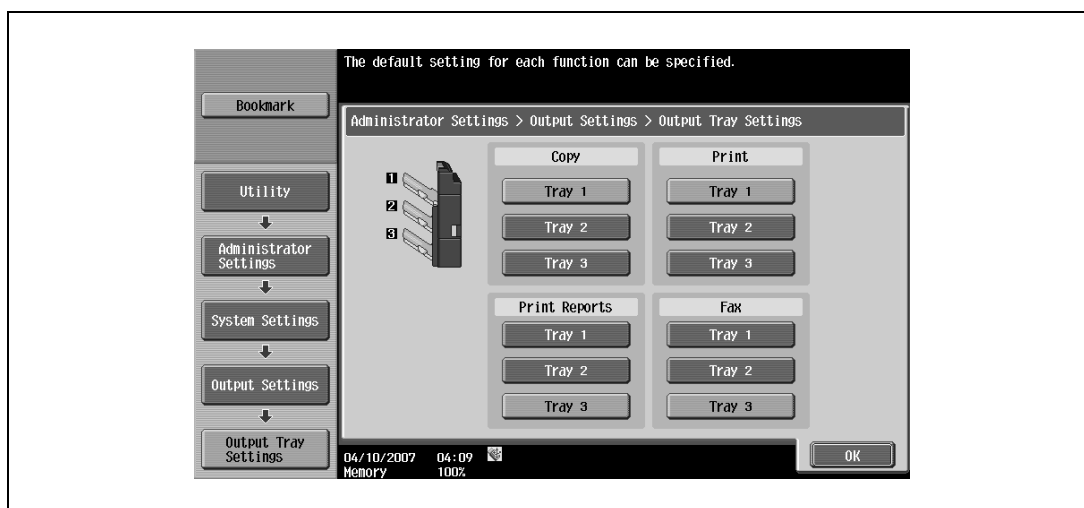
You can specify the default output tray setting. (Default setting: Printer - Tray 1)



Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-33.

- 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.

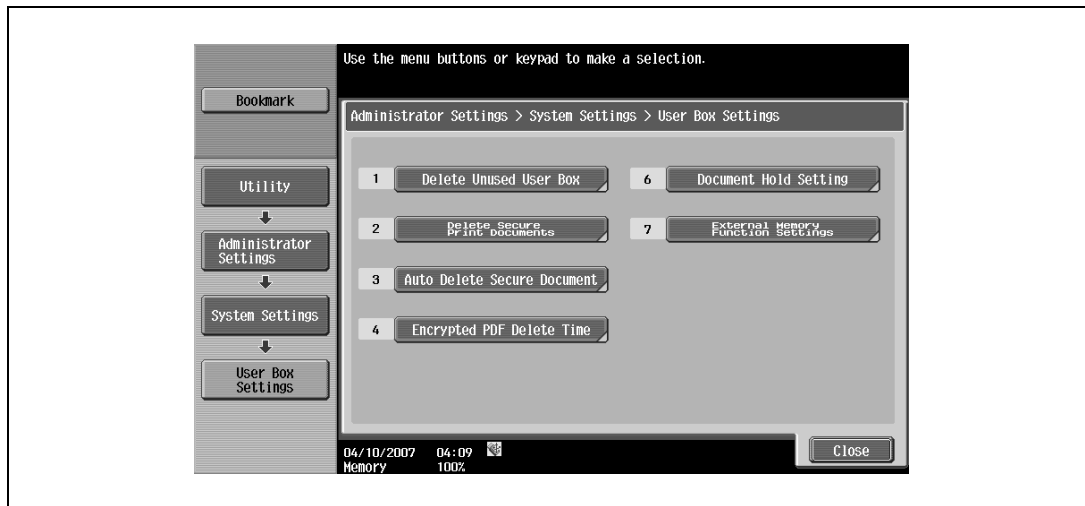


- 4 Touch the button for the desired setting.
The output tray is set.

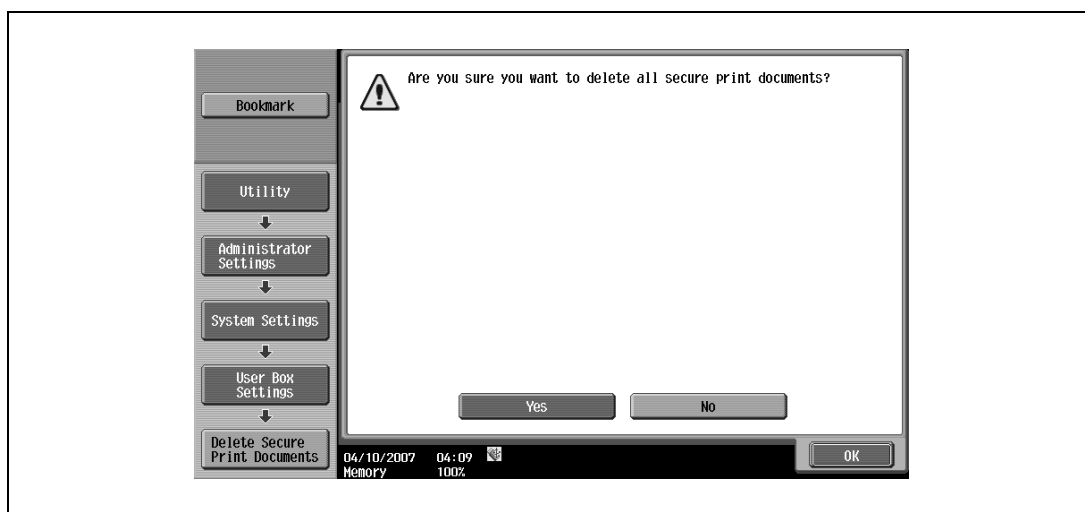
12.4.3 Delete Secure Print Documents

This function deletes all saved secure print documents.

- 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].

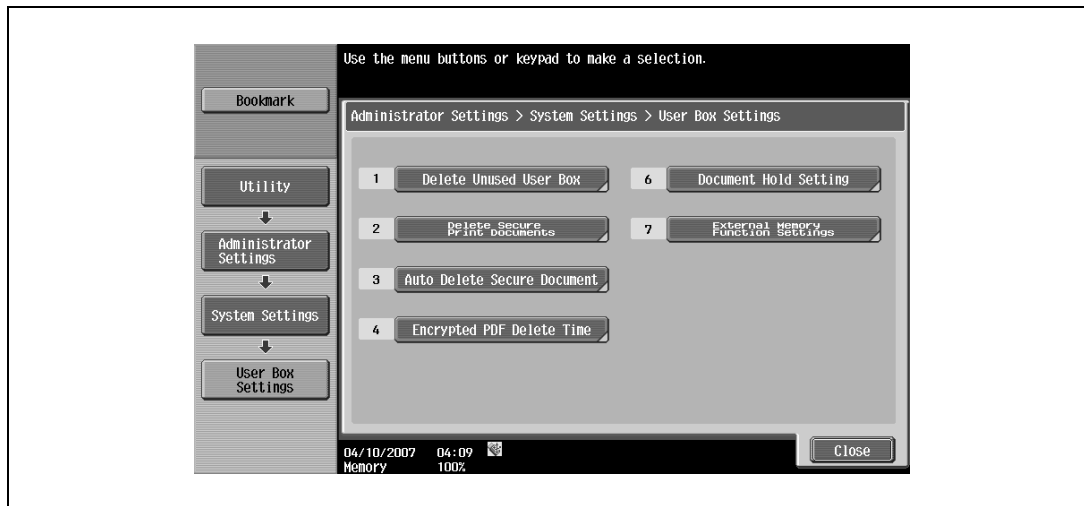


- 5 Touch [OK].

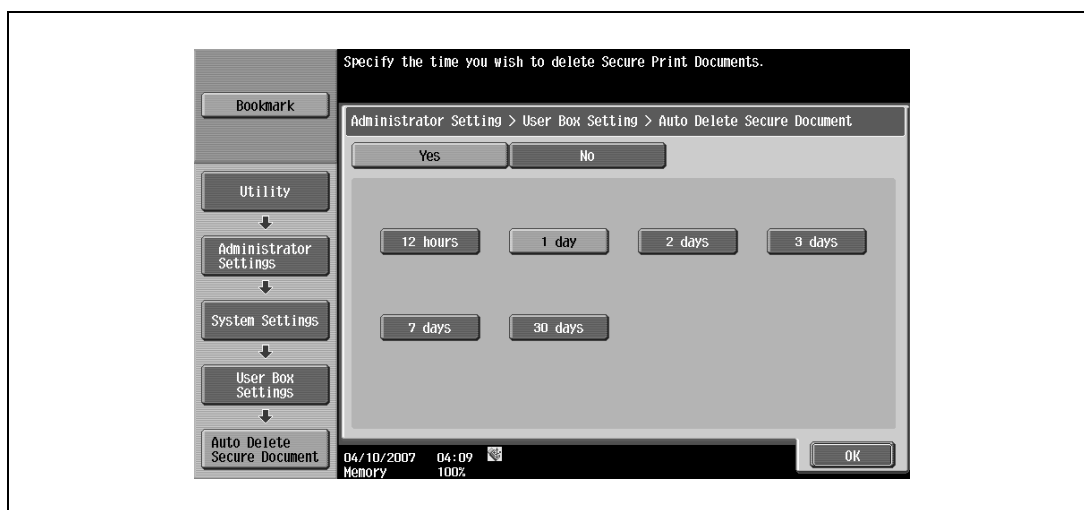
12.4.4 Auto Delete Secure Document

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 Delete Secure Print Documents] in the User Box Settings screen.



- 4 Select [Yes] or [No]. When selecting [Yes], also select a time interval before deleting them.



- 5 Touch [OK].

12.4.5 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 12-33.

- 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.
Print without Authentication is specified.



12.4.6 I/F Timeout

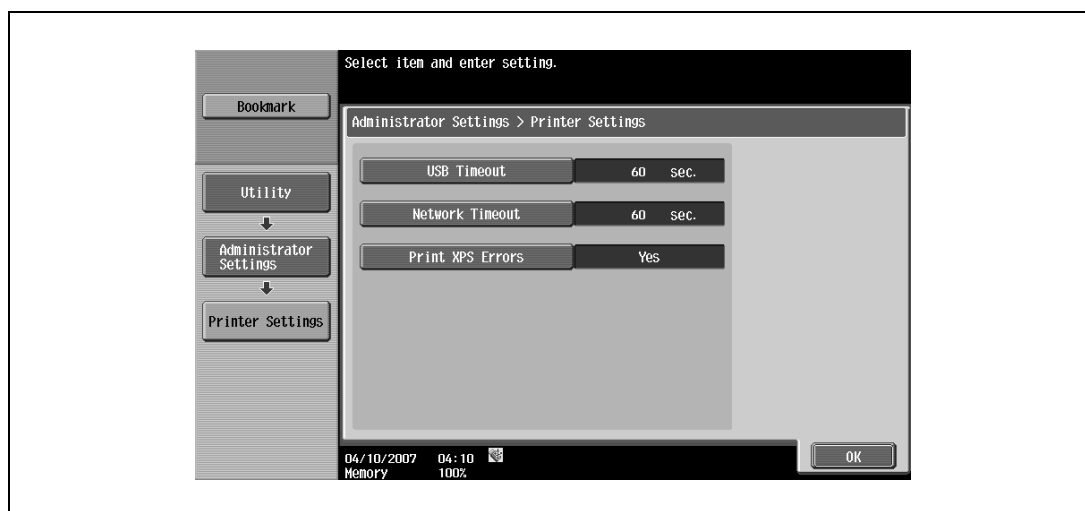
You can set the time until a communication timeout occurs for the USB or network interface. (Default setting: 60 sec.)



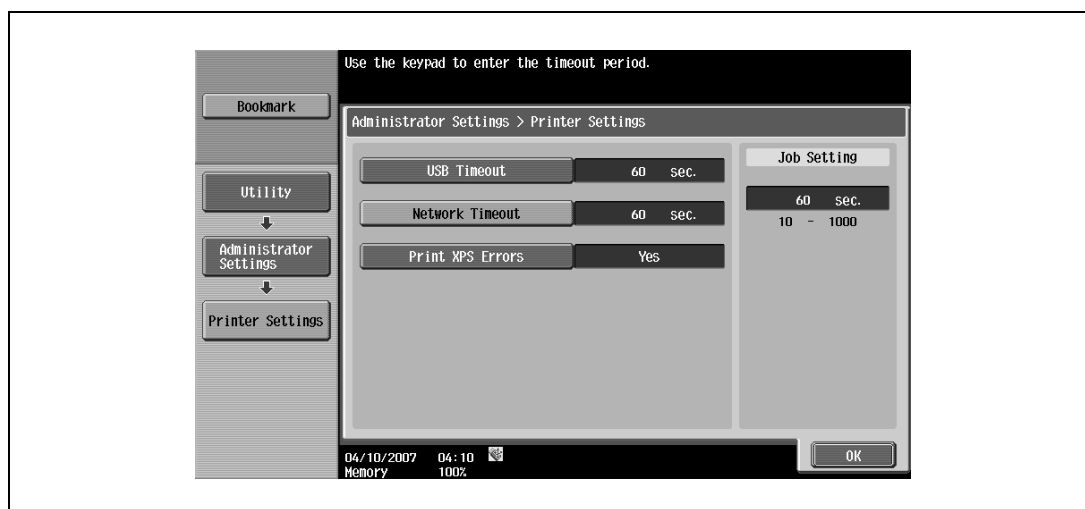
Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-33.

- 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.

12.4.7 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 12-33.

- 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].

12.4.8 Print Data Capture

You can specify whether to allow or prohibit data capturing of a print job. (Default setting: Allow)

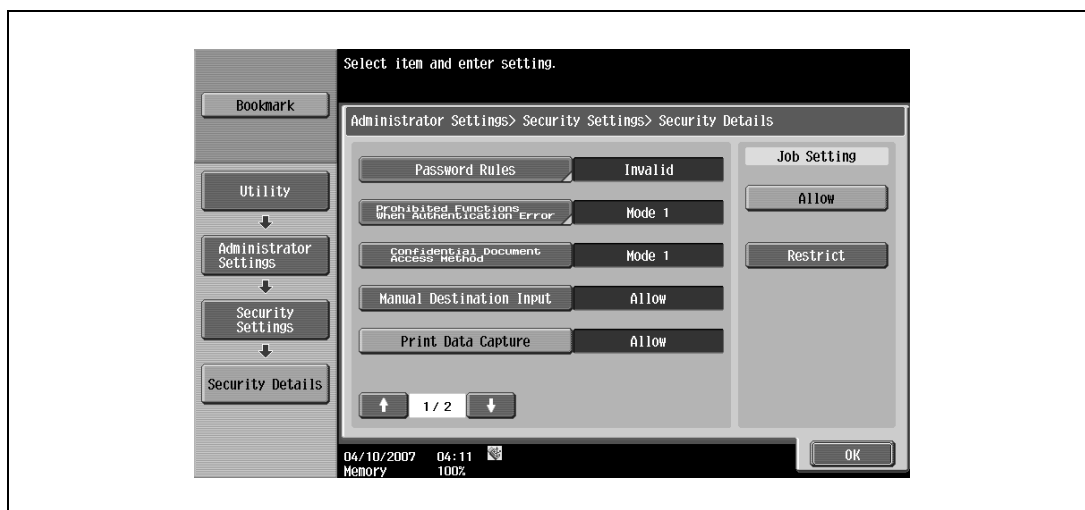


Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-33.

For details on capturing a print job, contact your service representative.

- 1 In the Administrator Settings screen, touch [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.

12.4.9 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 11-28.

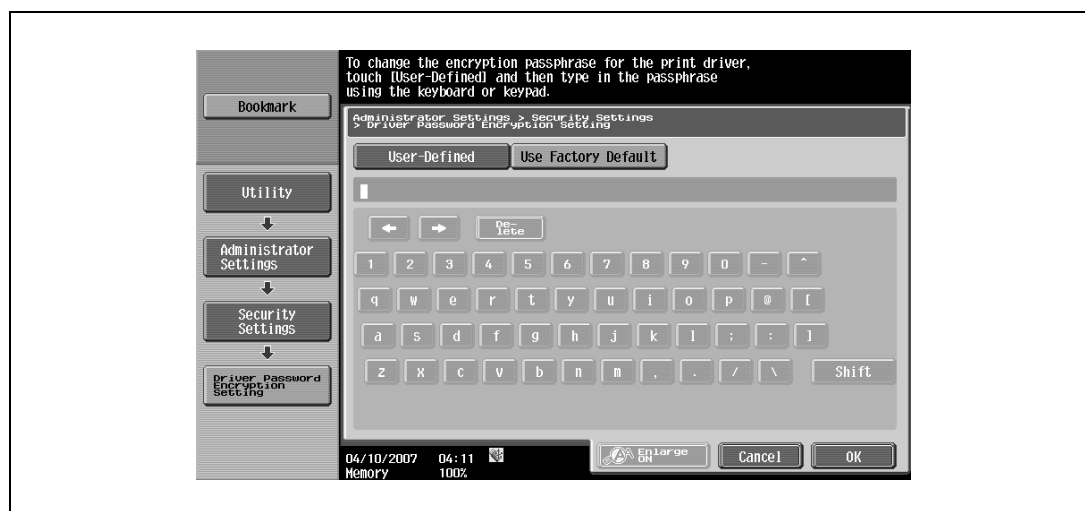
When SSL is enabled in OpenAPI and the printer driver can obtain the device information automatically, it is also possible to obtain the common encryption key from this machine automatically.



Detail

For details on displaying the Administrator Settings screen, refer to "Displaying the Administrator Settings screen" on page 12-33.

- 1 In the Administrator Settings screen, touch [Security Settings].
- 2 In the Security Settings screen, touch [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 11-28.

13

Web Connection

13 Web Connection

13.1 Using Web Connection

Web Connection is a device management utility supported by the HTTP server integrated into the printer controller. 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 or later recommended (JavaScript and Cookies enabled) 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)

13.1.2 Accessing Web Connection

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 is being used, first edit the hosts file to include "fe80::220:6bff:fe10:2f16IPv6 IPv6_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 13-11.

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

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 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 Web Connection, disable the cache for the Web browser.



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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 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

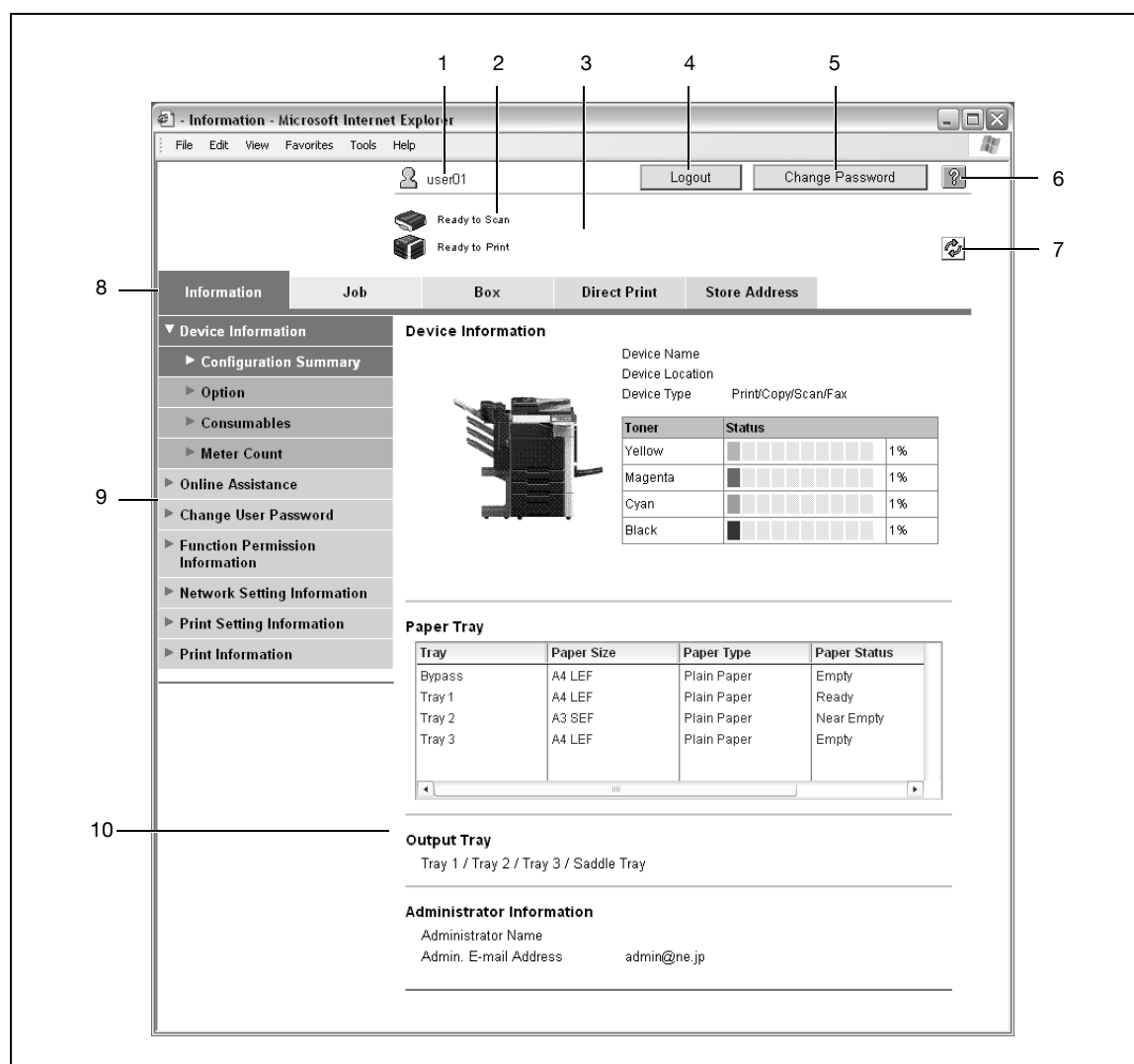
- 1 On the "Edit" menu, click "Preferences".
- 2 Under "Category" on the left, click "Advanced", then "Cache".
- 3 Under "Document in cache is compared to document on network:", select "Every time".

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 Web Connection are constructed as shown below.



No.	Item	Description
1	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.
2	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.
3	Message display	Displays the operating status of the machine.
4	[Logout] button	Click to log off from the current mode.
5	[Change Password] button	Click to go to the Change User Password page. (Refer to "Information" on page 13-14.) This button appears only in User mode when a registered user is logged on.
6	[Help] button	Click to display the page specified as the online manual Web page. For details on specifying the Web page, refer to "Information" on page 13-14.
7	[Refresh] button	Click to update the displayed page.
8	Information and settings	Displays details of the item selected in the menu.
9	Menu	Information and settings for the selected tab are listed. The menu that appears differs depending on the tab that is selected.

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 List• User Box• Direct Print• Address Registration

**Detail**

The page that appears immediately after accessing the machine with 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 13-11.

The 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

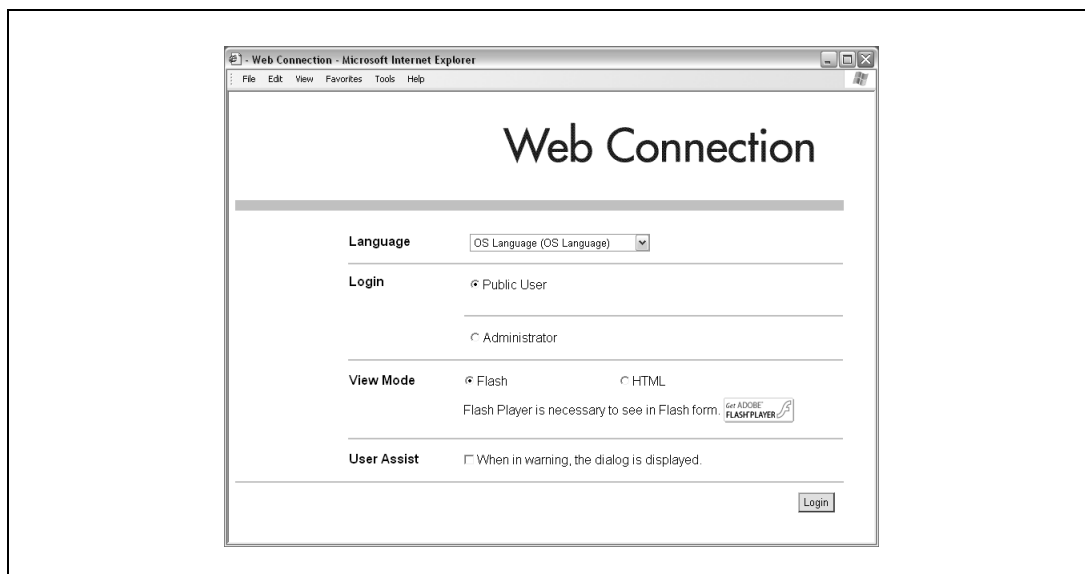
When the machine is accessed with Web Connection, the logon page appears if user authentication and account track settings have been specified on the machine. If user authentication and account track settings have not been specified, the page for a public user appears. In order to log on as a different user or as an administrator after login, it is necessary to log off first, then log on again.

When user authentication and account track settings are not specified

- 1 The user logs in automatically as a public user.



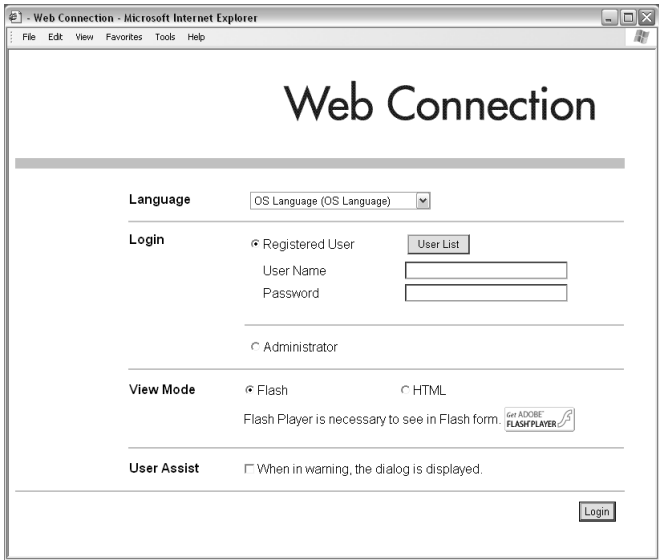
- 2 To log in as an administrator, log out.
- 3 Log in again as an administrator.



When user authentication and account track settings are specified

The User Authentication/Account Track screen appears.

- 1 Enter the required information to log in.



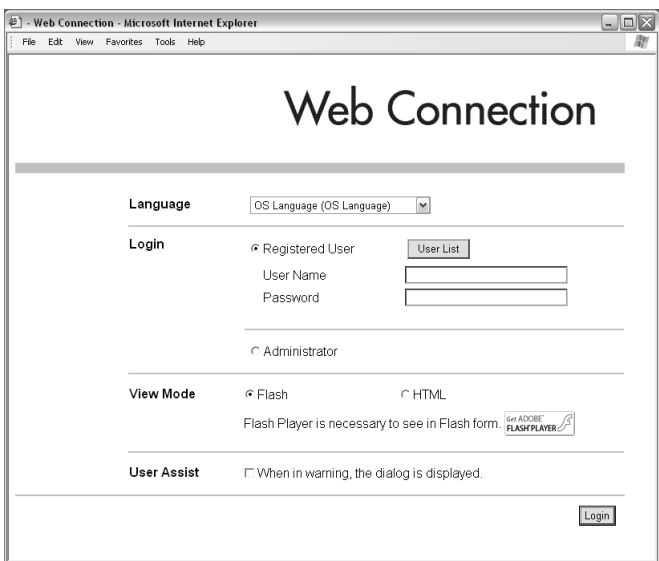
The screenshot shows a web browser window titled "Web Connection - Microsoft Internet Explorer". The page has a header "Web Connection" and a horizontal line. Below the header, there are several sections:

- Language**: A dropdown menu showing "OS Language (OS Language)".
- Login**:
 - ☒ **Registered User**: Includes a "User List" button, a "User Name" input field, and a "Password" input field.
 - ☐ **Administrator**
- View Mode**:
 - ☒ **Flash** and ☐ **HTML**.
 - Text: "Flash Player is necessary to see in Flash form." followed by a small "Get Adobe Flash Player" icon.
- User Assist**: ☐ "When in warning, the dialog is displayed."

A "Login" button is located at the bottom right of the form.

- 2 To log in as a different user or an administrator, log out.

- 3 Log in again.



This screenshot is identical to the one above, showing the "Web Connection" login screen in Microsoft Internet Explorer. It includes the same sections for Language, Login (Registered User/Administrator), View Mode (Flash/HTML), and User Assist, with the same input fields and buttons.

13.2.2 Logout

- Click the [Logout] button in the upper right side of the window to display a logoff confirmation dialog box. To return to the logon page again, click the [OK] button.

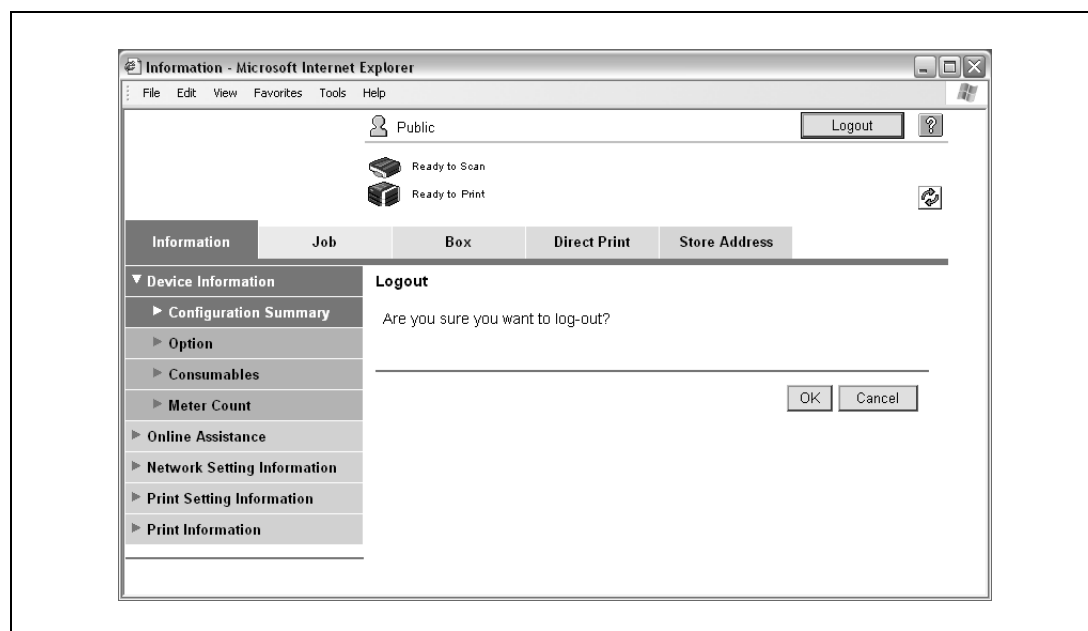


Detail

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 13-21.



13.2.3 Login

Depending on the logon method used, 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 Web Connection as a 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 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 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 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
- Page display of the Job List 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. In an IPv6 environment, select "HTML".

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 was selected, select server.
- To log on to Web Connection as the administrator in User mode, select "Administrator" - "Administrator (User Mode)", and then enter the administrator password.



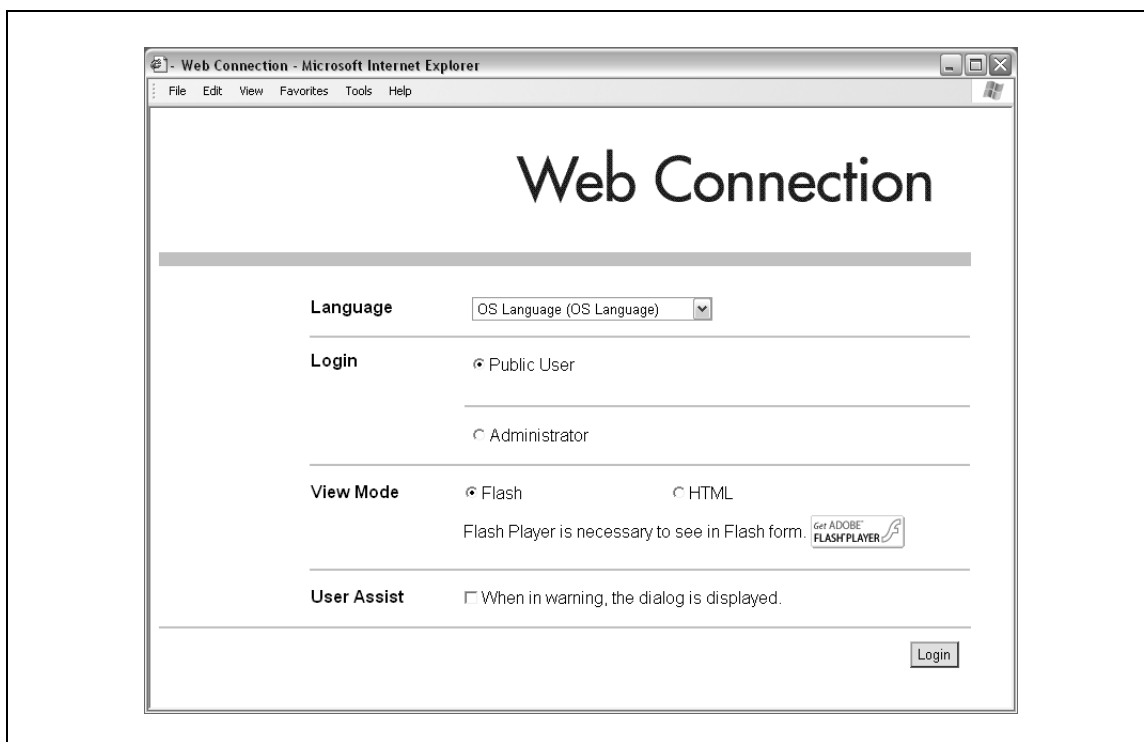
Detail

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".

Logging on to Administrator mode

In order to specify system and network settings, log on to Administrator mode. In the logon page, select "Administrator", type in the administrator password, and then click the [Login] button.



Detail

When logged on to Administrator mode, the control panel of the machine is locked and cannot be used.

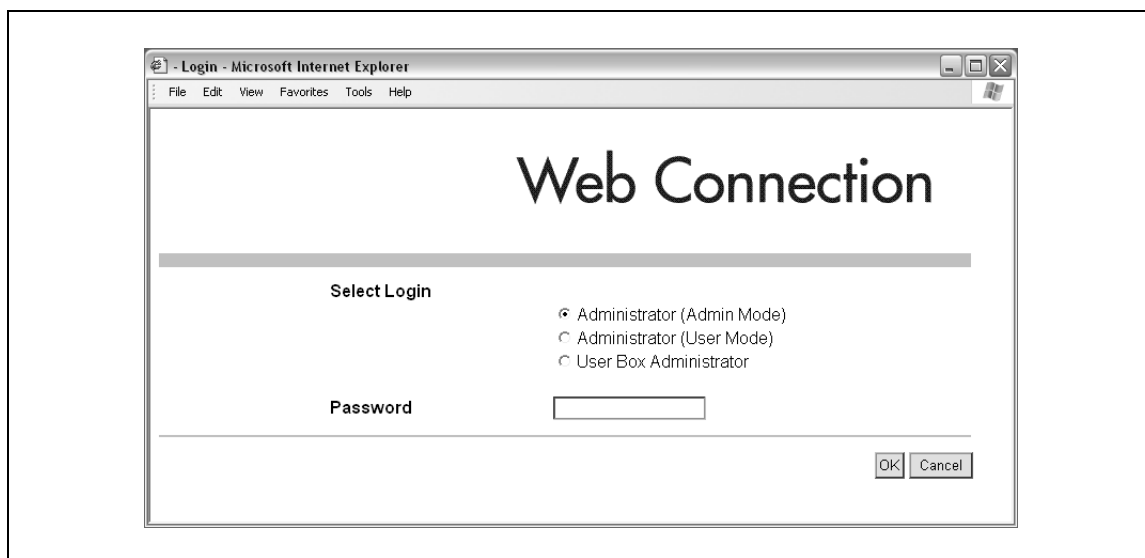
Depending on the status of the machine, you may not be able to log on to Administrator mode.

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 on to Administrator mode. For details on authentication settings, refer to the User manual – Copy Operations.

The password input dialog box differs 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 Web Connection as a user box administrator in User mode.



- In the logon page, select "Administrator", and then click the [Login] button.
 - To log on to 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 on to Administrator mode. For details on authentication settings, refer to the User manual – Copy Operations.

The password input dialog box differs depending on the specified machine settings.

13.3 Overview of User mode

By logging on to Web Connection in User mode, the following functions can be specified.



Note

For other details on the User mode, refer to the Web Connection Help on the Utilities CD-ROM.

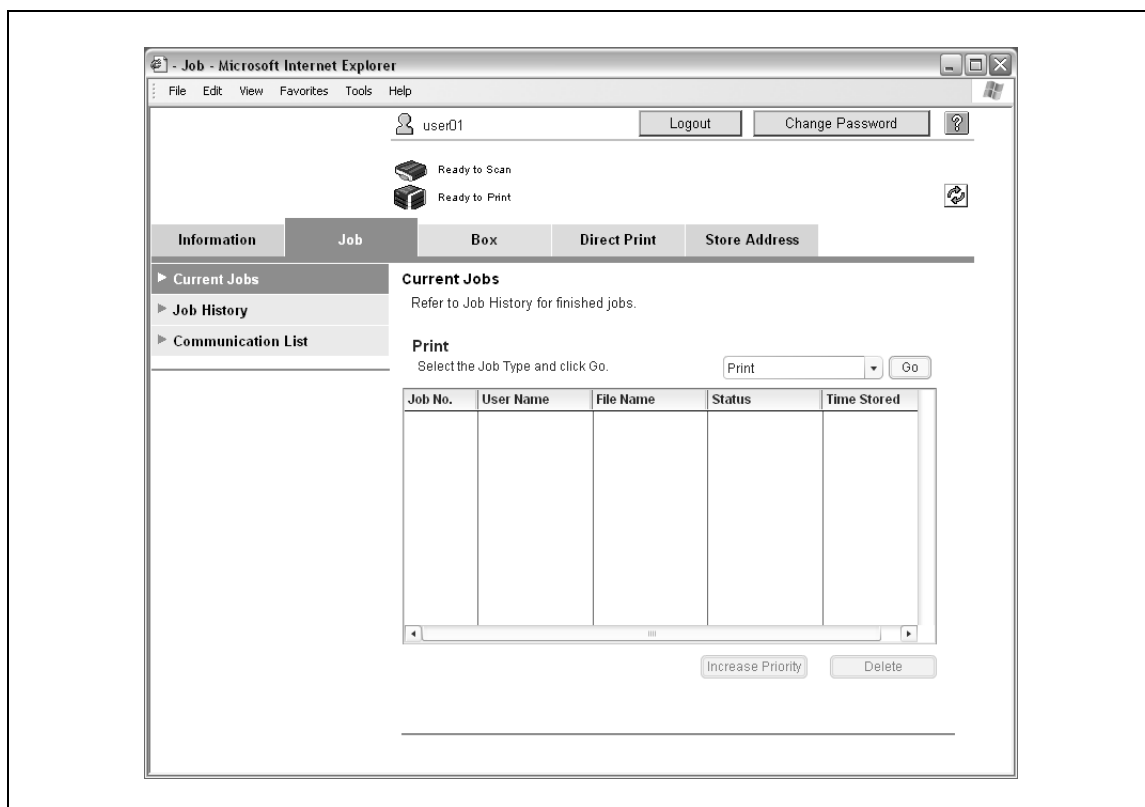
13.3.1 Information

This is the first page that appears when you access Web Connection.



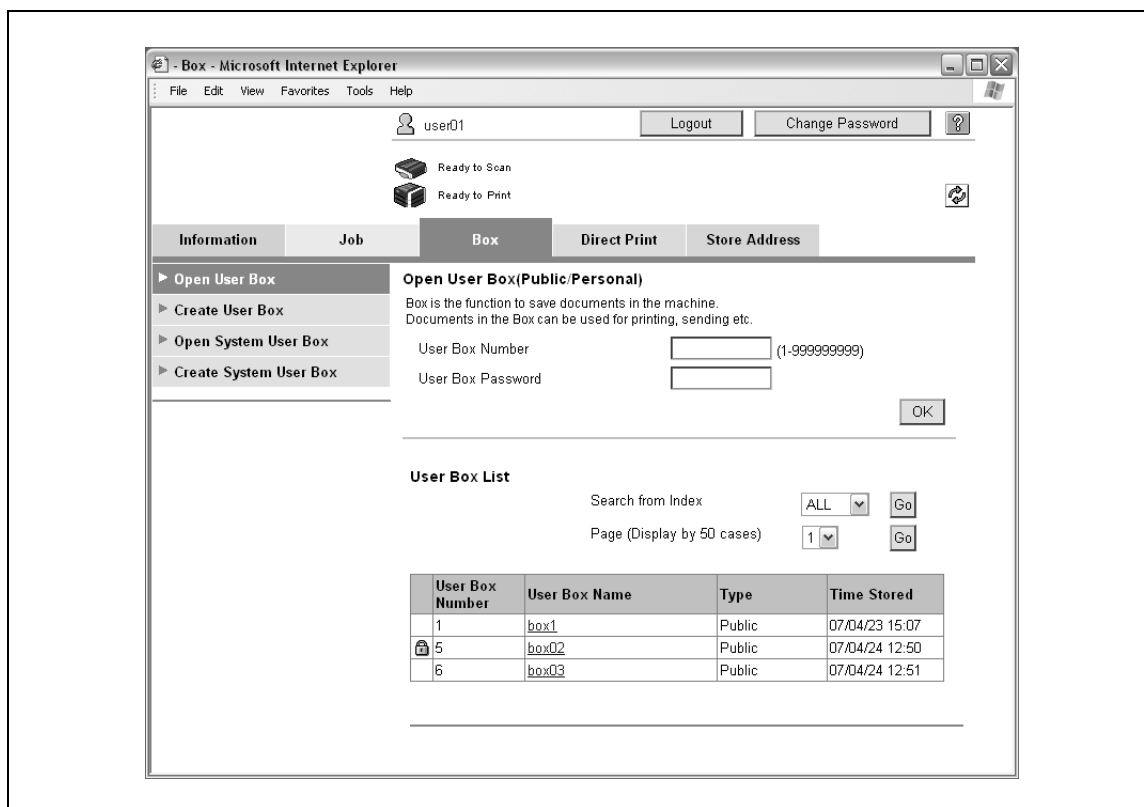
Item	Description
Device Information	The current system configuration, options, consumables and counter values can be displayed.
Online Assistance	Support information for the machine can be displayed.
Change User Password	The password for the user who is logged on can be changed.
Function Permission Information	Information on operations permitted by users and accounts can be displayed.
Network Setting Information	Network settings for 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



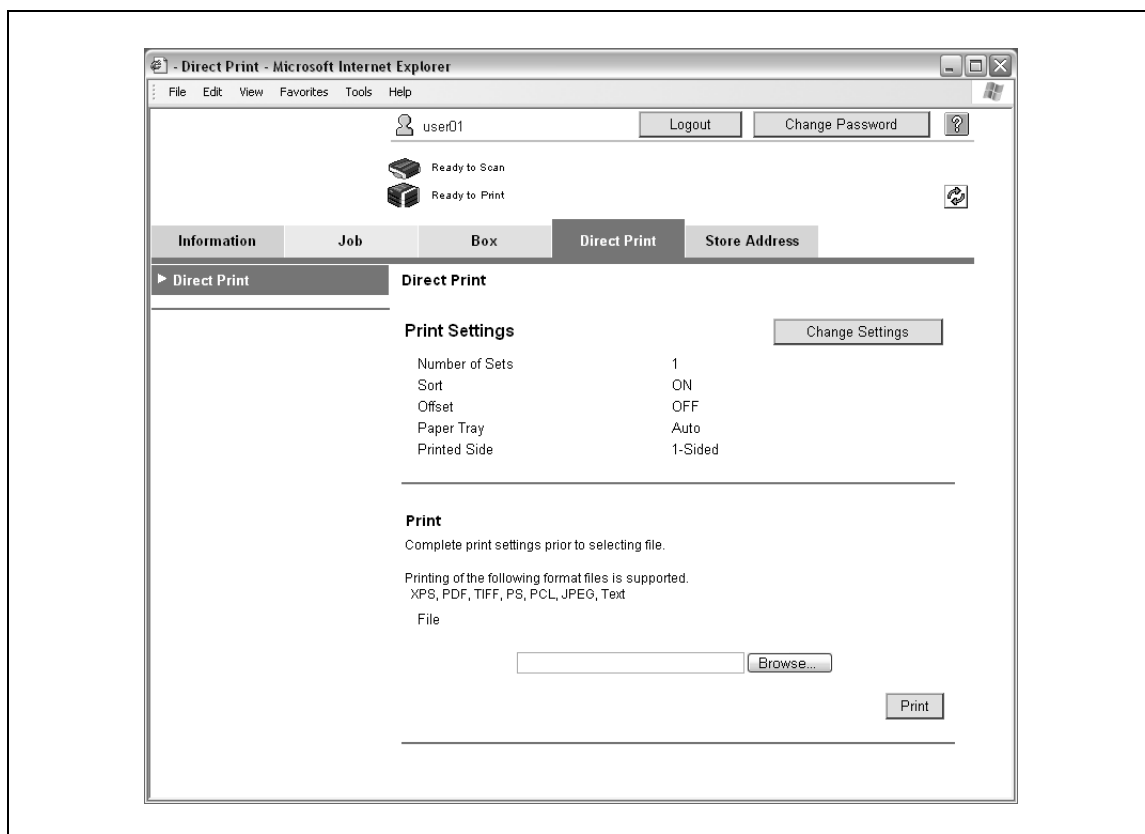
Item	Description
Current Jobs	The running job and queued jobs can be displayed.
Job History	The completed jobs can be displayed.
Communication List	The completed transmission and reception jobs can be displayed.

13.3.3 Box



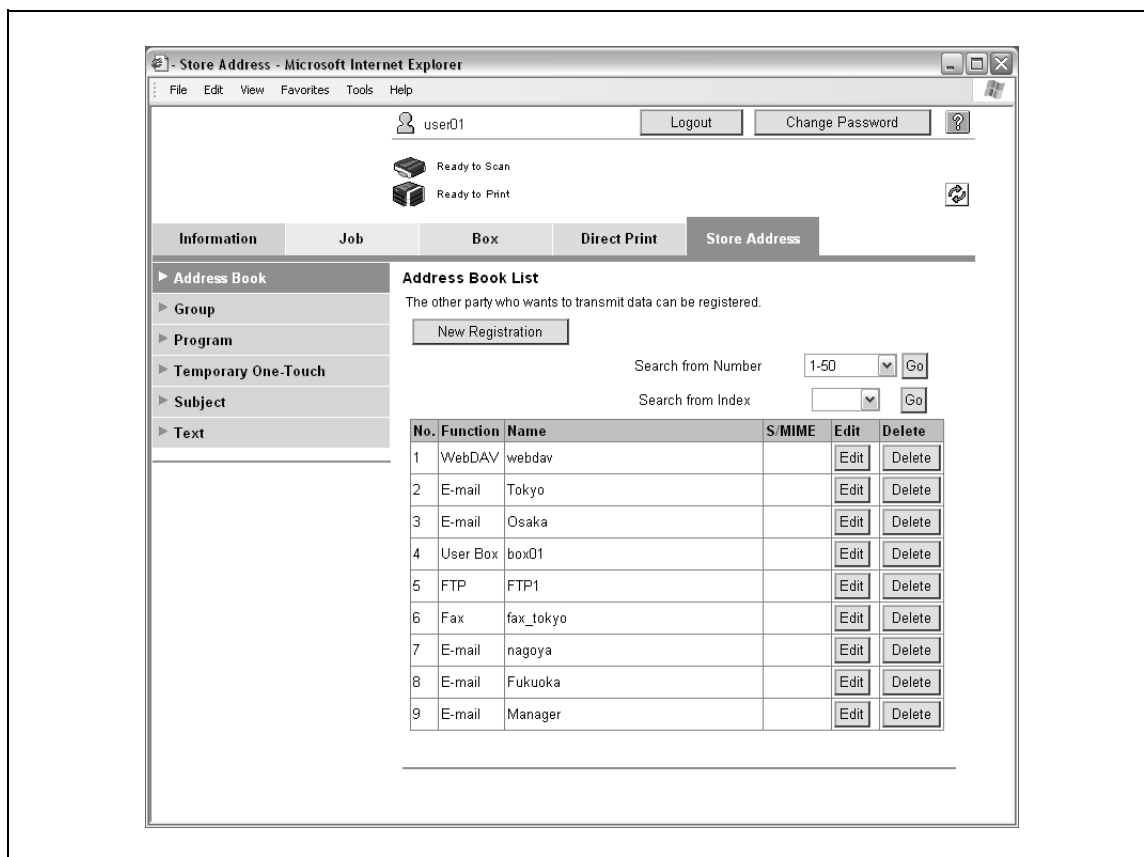
Item	Description
Open User Box	A currently created public, personal or group user box can be opened to work on a saved document or to change user box settings.
Create User Box	New user boxes can be created.
Open System User Box	Displays if the optional fax kit has been installed. System user boxes (Bulletin 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 has been 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 in a computer can be specified and printed with this machine.

13.3.5 Store Address



Item	Description
Address Book	The list of addresses 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

This may not appear depending on the Administrator mode settings.

13.4 Overview of Administrator mode

By logging on to 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

The screenshot shows the 'Maintenance' page in a Microsoft Internet Explorer browser window. The page has a navigation bar with tabs: Maintenance, Security, Box, Print Setting, Store Address, and Network. The 'Maintenance' tab is selected, and a left sidebar lists various settings like Meter Count, ROM Version, Import/Export, Status Notification Setting, Total Counter Notification Setting, Machine Setting, Online Assistance, Date/Time Setting, Timer Setting, Network TWAIN, Reset, External Memory Function Settings, and Header/Footer Registration. The main content area displays several counters and settings:

Total Counter

Total	64
Total Duplex	2
# of Originals	23
# of Used Paper	20

Copy Counter

	Full Color	Black	Single Color	2 Color	Total
Total	5	13	0	0	18
Large Size	0	0	0	0	0

Print Counter

	Full Color	Black	2 Color	Total
Total	0	2	0	2
Large Size	0	0	0	0

Scan / Fax Counter

	Print (Full Color)	Print (Black)	Scans
Total	1	43	44
Large Size	0	0	0

Fax TX 15
Fax RX 7

Total (Copy + Print)

	Full Color	Black	2 Color
Total	5	15	0

Paper Size / Type Counter

Paper Size	Paper Type	Count
A3	Not Specified	0
B4	Not Specified	0
A4	Not Specified	42
B5	Not Specified	0
A5	Not Specified	0
B6	Not Specified	0
8 1/2" x 14"	Not Specified	0
8 1/2" x 11"	Not Specified	0
Japanese Postcard	Not Specified	0
Others	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.
Network TWAIN	Specify the length of time until the machine's operations are automatically unlocked during scanning (except with PUSH scanning).
Reset	Resets the network settings or 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.

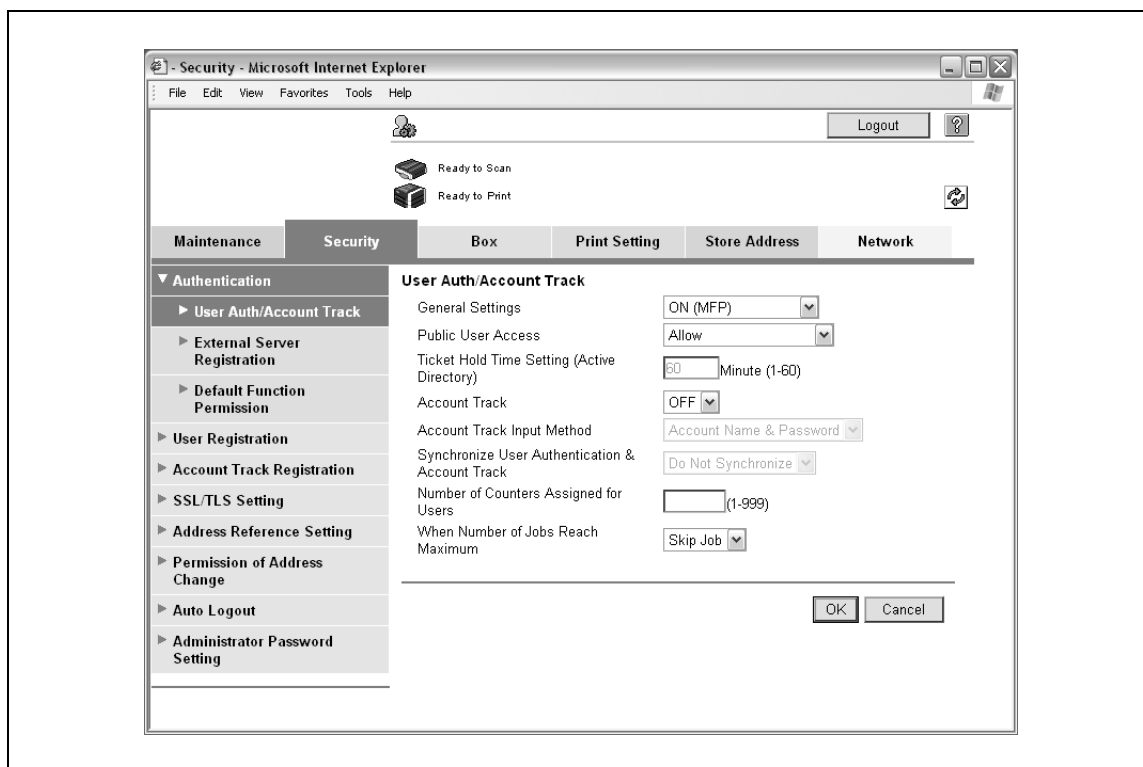


Note

To use the machine as a scanner from application software using TWAIN, install the TWAIN driver software designed for that purpose. For details, refer to the TWAIN driver manual on the MF350 Series CD-ROM.

"External Memory Function Settings" appears only when an external memory is connected to 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.
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 Web Connection in the Administrator mode.

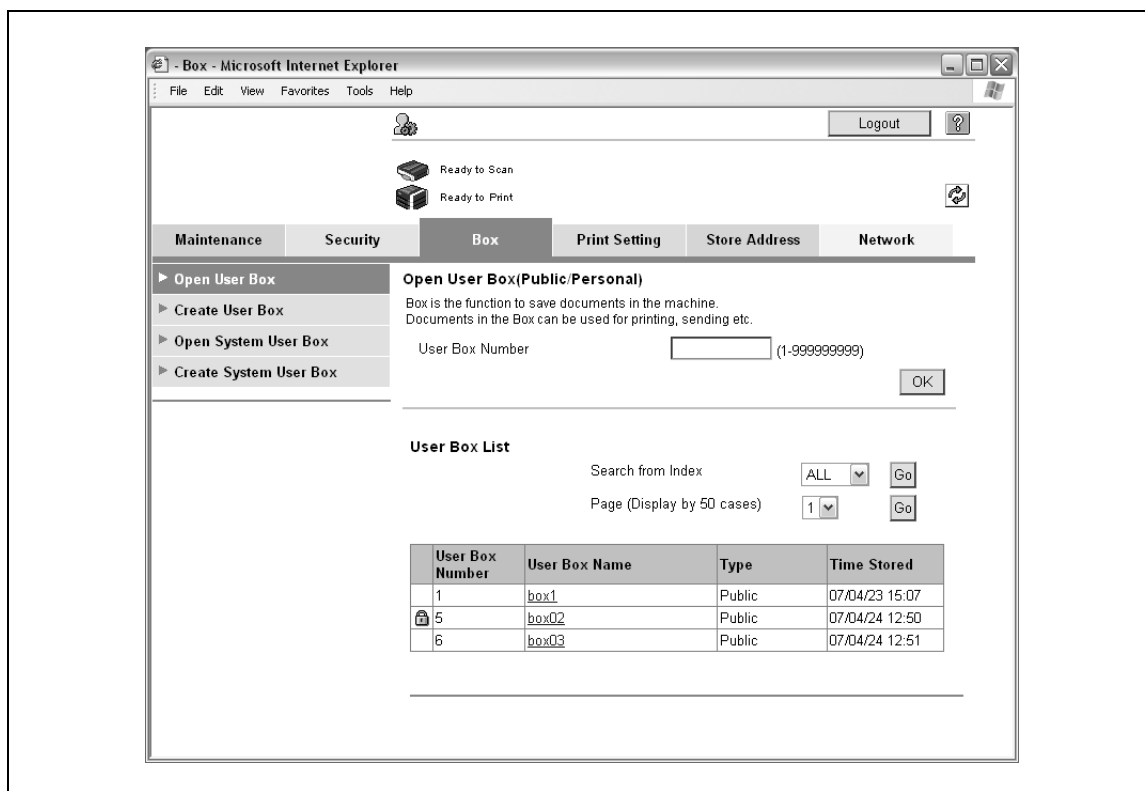


Note

"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.



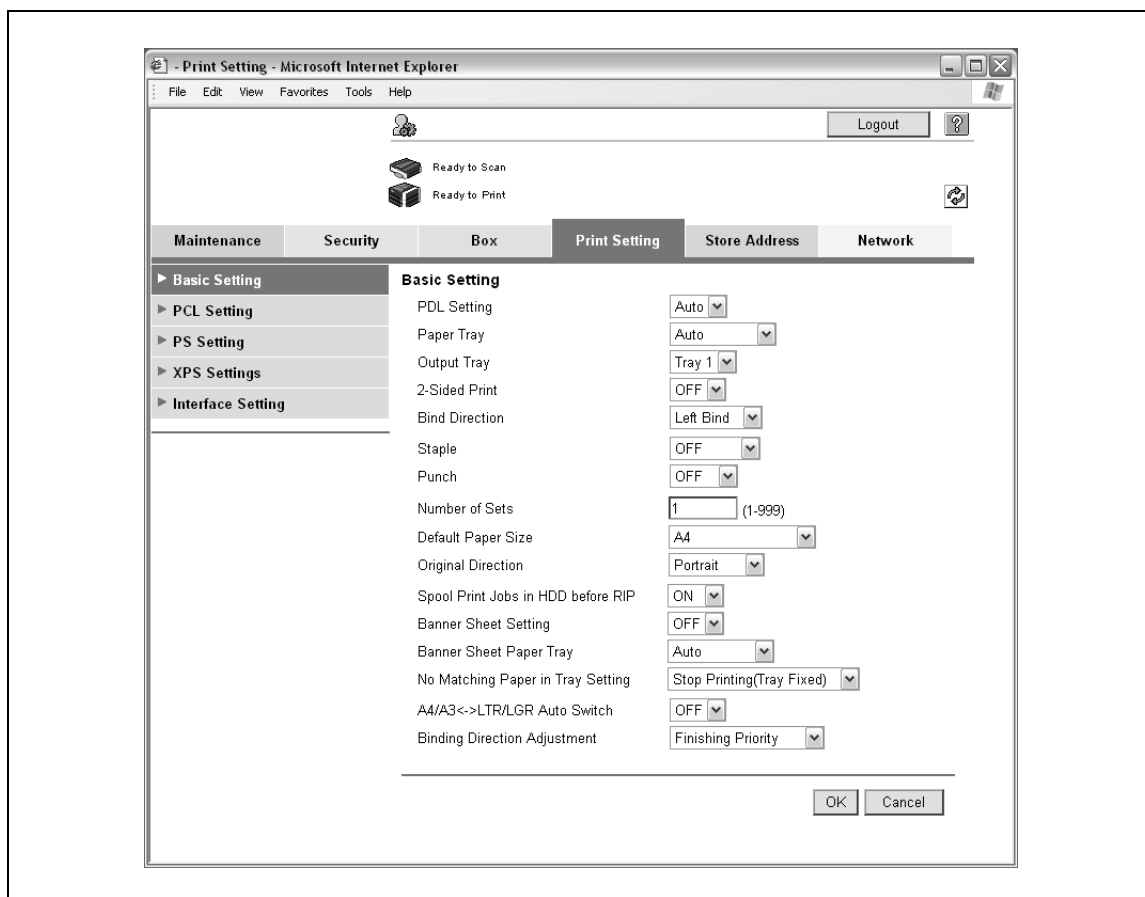
Item	Description
Open User Box	A currently created public, personal or group user box can be opened to work on a saved document or to change user box settings.
Create User Box	New user boxes can be created.
Open System User Box	System user boxes (Annotation User Box Bulletin Board User Box, Polling TX User Box, Memory RX 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

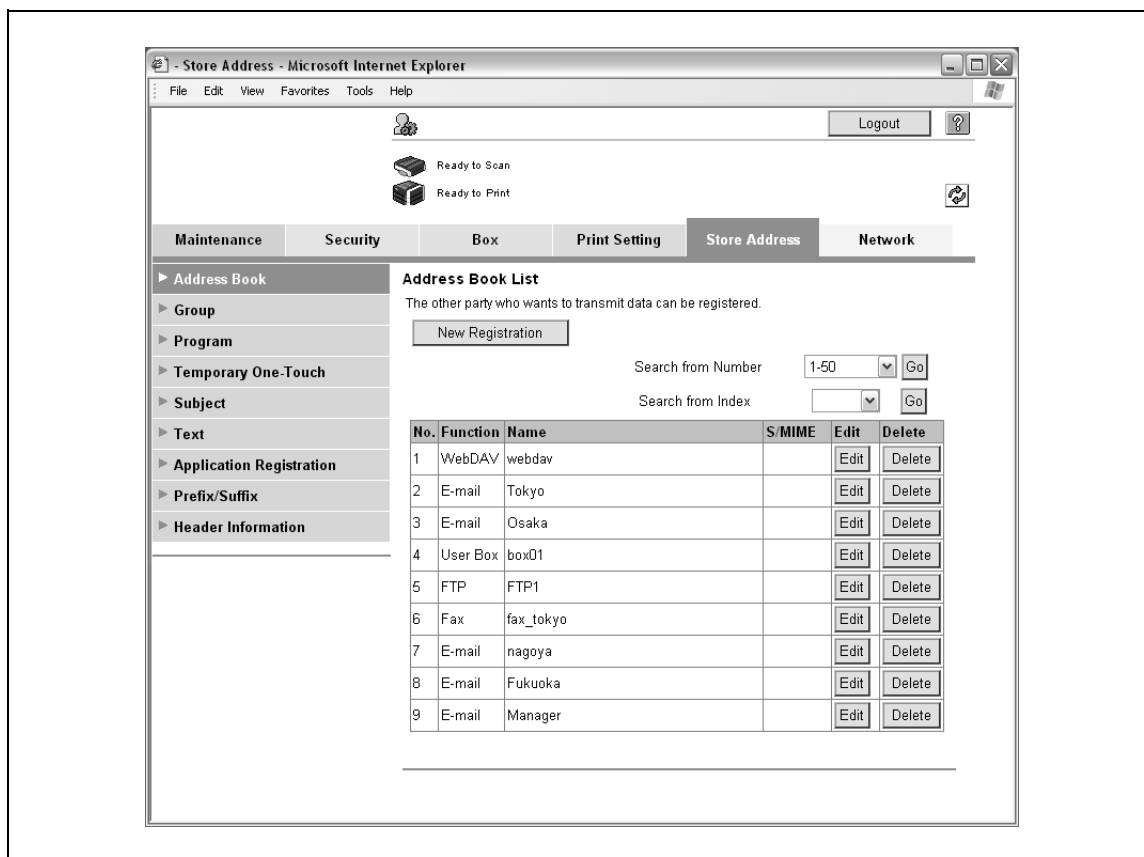
The Bulletin Board User Box, Polling TX User Box, Memory RX User Box, and Relay User Box can be operated when the optional fax kit is installed.

13.4.4 Print Setting



Item	Description
Basic Setting	The default printer settings can be specified.
PCL Setting	The default settings for PCL mode can be specified.
PS Setting	The default settings for PS mode can be specified.
XPS Settings	The XPS print settings can be specified.
Interface Setting	The interface timeout can be specified.

13.4.5 Store Address



Item	Description
Address Book	The list of addresses 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 fax kit is installed.

13.4.6 Network

Network - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Logout ?

Ready to Scan
Ready to Print

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

TCP/IP Setting

* is reflected after reset.

TCP/IP*

(Turn the main switch OFF, and then ON, when changing TCP/IP.)

Network Speed

IP Address Setting Method*

☒ DHCP*

☒ BootP*

☒ ARP/PING*

☒ AutoIP*

IP Address

Subnet Mask

Default Gateway

IPv6

Auto IPv6 Setting*

Link-Local Address

Global Address

Prefix Length

Gateway Address

RAW Port Number

☒ Port 1 (1-65535)

☒ Port 2 (1-65535)

☒ Port 3 (1-65535)

☒ Port 4 (1-65535)

☒ Port 5 (1-65535)

☒ Port 6 (1-65535)

Dynamic DNS Setting

Host Name

DNS Domain Name Setting

DNS Domain Auto Obtain

DNS Default Domain Name

DNS Search Domain Name1

DNS Search Domain Name2

DNS Search Domain Name3

DNS Server Setting

DNS Server Auto Obtain

Primary DNS Server

Secondary DNS Server1

Secondary DNS Server2

SLP Setting

SLP

LPD Setting

LPD

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	Register an LDAP server when using it.
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.

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 printer 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 printer 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 printer 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 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.	In Windows Vista, 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.	To use the Web Service print in Windows Vista, 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

15 Appendix

15.1 Product specifications

Item		Specifications
Model		Built-in printer controller
Power requirements		Common with the main body
RAM		1,024 MB
Hard disk		60 GB
Interface		Ethernet port (1,000Base-T/100Base-TX/10Base-T) USB 2.0
Frame type		Ethernet 802.2 Ethernet 802.3 Ethernet II Ethernet SNAP
Supported protocols		TCP/IP IPX/SPX NetBEUI AppleTalk (EtherTalk)
Print speed		MF201Plus: 20 sheets/minute (color/monochrome, 8-1/2 × 11 paper, and simplex) MF250: 25 sheets/minute (color/monochrome, 8-1/2 × 11 paper, and simplex) MF350: 35 sheets/minute (color/monochrome, 8-1/2 × 11 paper, and simplex)
Fast print time		MF201Plus: 7.7 seconds or less (monochrome and 8-1/2 × 11 paper) MF250: 7.7 seconds or less (monochrome and 8-1/2 × 11 paper) MF350: 5.9 seconds or less (monochrome and 8-1/2 × 11 paper)
Printer language		PCL5e/c Emulation PCL XL ver 2.1 Emulation PostScript 3 Emulation (3016) XPS ver.1.0
Operating environment conditions		Temperature 50 to 86 °F (10 to 30 °C) Humidity 15% to 85% RH
Resolution	Data processing	600 × 600 dpi (Print and Fax functions) 400 × 400 dpi (Fax function) 200 × 200 dpi (Fax function)
	Printing	1800 dpi equivalent × 600 dpi
Supported paper sizes		Maximum Standard Size (For banner paper printing: Paper width 8-1/4 to 11-3/4 inches (210 mm to 297 mm) × paper length 18 to 47-1/4 inches* (457.3 mm to 1,200 mm))
Printer fonts		<PCL> Latin 80 Fonts <Postscript 3 Emulation> Latin 137 Fonts
Compatible computers		IBM PC or compatible, and Macintosh (PowerPC or Intel Processor) (Intel Processor is Mac OS X 10.4 only)

Item		Specifications
Printer driver	PCL Driver (PCL driver)	Windows NT Workstation /Server Version4.0 (Service Pack 6 or later) Windows 2000 Professional /Server (Service Pack 3 or later) Windows XP Home Edition/Professional, Windows XP Professional x64 Edition Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise x64 Edition Windows Server 2003 Standard Edition, Windows Server 2003, Standard x64 Edition
	PostScript Driver (PS driver)	Windows 2000 Professional /Server (Service Pack 3 or later) Windows XP Home Edition/Professional, Windows XP Professional x64 Edition, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise x64 Edition Windows Server 2003 Standard Edition, Windows Server 2003, Standard x64 Edition
	PostScript PPD driver (PS-PPD)	Mac OS 9.2 or later Mac OS X 10.2.8, Mac OS X 10.3, or Mac OS X 10.4
	Fax driver	Windows NT Workstation /Server Version4.0 (Service Pack 6 or later) Windows 2000 Professional /Server (Service Pack 3 or later) Windows XP Home Edition/Professional, Windows XP Professional x64 Edition Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise x64 Edition Windows Server 2003 Standard Edition, Windows Server 2003, Standard x64 Edition
Utility		Web Connection Compatible Web browsers: Microsoft Internet Explorer Ver. 6 or later recommended (JavaScript and Cookies enabled) 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

GENERIC 35C-4

Configuration Page

Print Operation Menu Map

Basic Setting

Default Paper Size = A4
 Paper Tray = Auto
 Output Tray = Tray 1
 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 =
 Banner Setting = Disable
 Banner Paper Tray = Auto

PCL Setting

Font Source = I
 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 = 192 [MByte]

Printer Information

Installed Tray

Tray 1 = A4
 Tray 2 = A3
 Tray 3 = None
 Tray 4 = None
 LCT = 8 1/2x11

Option

Duplex Unit = Installed
 Finisher = Available
 Punch Unit = Available
 Fold Unit = Available
 Fax Unit = Available
 Mailbin Unit = Not Available

Firmware Version

Printer Controller = #010170-3550-500-01

Network

MAC Address

MAC Address = 98:26:48:8C:A4:17

TCP/IP

TCP/IP = Enable
 IP Address = 192.168.1.20
 Subnet Mask = 255.255.255.0
 Default Gateway = 192.168.1.1
 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 = Disable

SMB

SMB = Enable

15.3 Font list

15.3.1 PCL Font List

GENERIC 35C-4

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>(s1p12v0s0b4101T	00001	
CG Times Bold	Scalable	<esc>(01X<esc>(s1p12v0s3b4101T	00002	
<i>CG Times Italic</i>	Scalable	<esc>(01X<esc>(s1p12v1s0b4101T	00003	
<i>CG Times Bold Italic</i>	Scalable	<esc>(01X<esc>(s1p12v1s3b4101T	00004	
CG Omega	Scalable	<esc>(01X<esc>(s1p12v0s0b4113T	00005	
CG Omega Bold	Scalable	<esc>(01X<esc>(s1p12v0s3b4113T	00006	
<i>CG Omega Italic</i>	Scalable	<esc>(01X<esc>(s1p12v1s0b4113T	00007	
<i>CG Omega Bold Italic</i>	Scalable	<esc>(01X<esc>(s1p12v1s3b4113T	00008	
<i>Coronet</i>	Scalable	<esc>(01X<esc>(s1p12v1s0b4116T	00009	
Clarendon Condensed	Scalable	<esc>(01X<esc>(s1p12v4s3b4140T	00010	
Univers Medium	Scalable	<esc>(01X<esc>(s1p12v0s0b4148T	00011	
Univers Bold	Scalable	<esc>(01X<esc>(s1p12v0s3b4148T	00012	
<i>Univers Medium Italic</i>	Scalable	<esc>(01X<esc>(s1p12v1s0b4148T	00013	
<i>Univers Bold Italic</i>	Scalable	<esc>(01X<esc>(s1p12v1s3b4148T	00014	
Univers Condensed Medium	Scalable	<esc>(01X<esc>(s1p12v4s0b4148T	00015	
Univers Condensed Bold	Scalable	<esc>(01X<esc>(s1p12v4s3b4148T	00016	
<i>Univers Condensed Medium Italic</i>	Scalable	<esc>(01X<esc>(s1p12v5s0b4148T	00017	
<i>Univers Condensed Bold Italic</i>	Scalable	<esc>(01X<esc>(s1p12v5s3b4148T	00018	
Antique Olive	Scalable	<esc>(01X<esc>(s1p12v0s0b4168T	00019	
Antique Olive Bold	Scalable	<esc>(01X<esc>(s1p12v0s3b4168T	00020	
<i>Antique Olive Italic</i>	Scalable	<esc>(01X<esc>(s1p12v1s0b4168T	00021	
Garamond Antiqua	Scalable	<esc>(01X<esc>(s1p12v0s0b4197T	00022	
Garamond Halbfett	Scalable	<esc>(01X<esc>(s1p12v0s3b4197T	00023	
<i>Garamond Kursiv</i>	Scalable	<esc>(01X<esc>(s1p12v1s0b4197T	00024	

15.3.2 PS Font List

GENERIC 35C-4

PS Font List

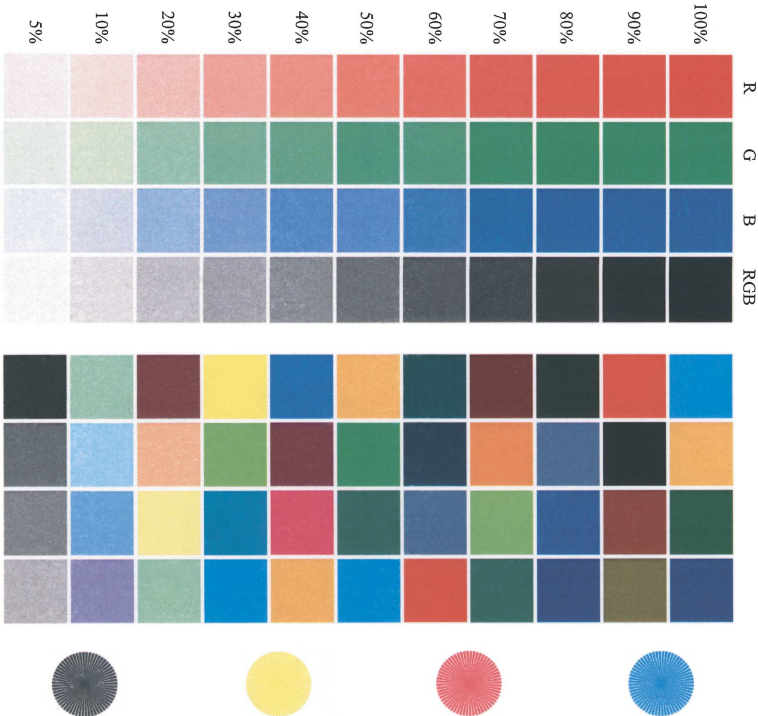
P.1

Resident Fonts

Font	Font #
Albertus MT	AlbertusMT 00000
<i>Albertus MT Italic</i>	AlbertusMT-Italic 00001
Albertus MT Light	AlbertusMT-Light 00002
Antique Olive Roman	AntiqueOlive-Roman 00003
<i>Antique Olive Italic</i>	AntiqueOlive-Italic 00004
Antique Olive Bold	AntiqueOlive-Bold 00005
Antique Olive Compact	AntiqueOlive-Compact 00006
<i>Apple Chancery</i>	Apple-Chancery 00007
Arial	ArialMT 00008
<i>Arial Italic</i>	Arial-ItalicMT 00009
Arial Bold	Arial-BoldMT 00010
<i>Arial Bold Italic</i>	Arial-BoldItalicMT 00011
ITC Avant Garde Gothic Book	AvantGarde-Book 00012
<i>ITC Avant Garde Gothic Book Oblique</i>	AvantGarde-BookOblique 00013
ITC Avant Garde Gothic Demi	AvantGarde-Demi 00014
<i>ITC Avant Garde Gothic Demi Oblique</i>	AvantGarde-DemiOblique 00015
Bodoni Roman	Bodoni 00016
<i>Bodoni Italic</i>	Bodoni-Italic 00017
Bodoni Bold	Bodoni-Bold 00018
<i>Bodoni Bold Italic</i>	Bodoni-BoldItalic 00019
Bodoni Poster	Bodoni-Poster 00020
<i>Bodoni Poster Compressed</i>	Bodoni-PosterCompressed 00021
ITC Bookman Light	Bookman-Light 00022
<i>ITC Bookman Light Italic</i>	Bookman-LightItalic 00023
ITC Bookman Demi	Bookman-Demi 00024
<i>ITC Bookman Demi Italic</i>	Bookman-DemiItalic 00025
	Carta 00026
Chicago	Chicago 00027
Clarendon Roman	Clarendon 00028
Clarendon Bold	Clarendon-Bold 00029

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 lazy dog.

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	1.1.17

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 "GENERIC 35C-4 OpenOffice PPD", and then click the [OK] button.
- 7 From the "Please Select a Suitable driver." list, select "GENERIC 35C-4 OpenOffice 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 "GENERIC 35C-4 OpenOfficePPD" 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 RSR\<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	Macintosh network technology for automatically detecting devices connected to the network and for specifying settings. Previously called "Rendezvous", the name was changed to "Bonjour" starting with Mac OS X v10.4.
BOOTP	Abbreviation 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.
CMYK	Abbreviation for Cyan, Magenta, Yellow, and Black. The colors in the toner and ink used for color printing can all be represented by changing the mixing ratio of the four colors of CMYK.
Color matching	Technology for decreasing the difference in color among different devices such as scanners, displays, and printers.
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.

Term	Definition
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.
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 manufacture 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.
RGB	Abbreviation for Red, Green, and Blue. Represents all colors by changing the brightness ratio of the RGB 3 colors using the primary colors used by the color representation in a monitor.
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.
Touch & Print	Function that allows you to print the job that was sent from the printer driver when performing user authentication by only positioning the finger or an IC card on the authentication unit that is connected to this machine. To use the Touch & Print function, an authentication unit must be installed on this machine, and the finger vein pattern for each user must be registered.

Term	Definition
TrueType	An outline font. It was developed by Apple Computer and Microsoft. It is used as a standard by Macintosh 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.
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.

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