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1 Introduction

1 Introduction

Thank you for purchasing this machine.

The d-Color MF550/MF450 is equipped with an integrated printer controller that allows you to print directly from Windows-compatible computers or Macintosh computers.

This user manual describes the printing functions, operations, usage, and safety precautions of the printer controller. In order to ensure that this machine is used efficiently, carefully read this manual before using the machine.

In order to ensure that this machine is used safely, carefully read "Installation and operation precautions" of the User manual – Copy Operations before using the machine.

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1.2 User manuals

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

User manual

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

Copy Operations

This manual contains descriptions of the Copy mode operations and machine maintenance. Refer to this manual for details on the paper and documents, 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 Scanner Operations

This manual contains descriptions on specifying network settings for standard equipment and operating procedures for scanning functions. Refer to this user manual for details on using network functions and the Scan to E-Mail, Scan to FTP and Scan to SMB operations.

Web Connection Operations

This manual contains descriptions on the machine settings that can be specified remotely with Web Connection from a Web browser on a computer. Refer to this manual for details on operating procedures for using Web Connection.

Fax Operations (Option)

This manual contains descriptions of the G3 fax operations. Refer to this manual for details on using the G3 fax operations when the optional fax kit is installed.

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

Network Fax Operations (Option)

This manual contains details on the network fax functions. Refer to this manual for operating procedures on Internet faxing and IP address faxing.

About this user manual

This user manual contains information for using the printing functions of the Olivetti printer controller. For details on the copy functions, scanning functions, box functions, and fax functions, refer to the respective user manual.

This user manual is aimed at users who already have a basic knowledge of computer and copier operations. For Windows or Macintosh operating system and application operations, refer to the operation manual of the respective product.

Notations

Product name	Item
d-Color MF550/MF450 This machine	This machine, copier, or printer
Integrated network controller	Network controller
Printer controller, including this machine, and printing system	Printing system
Microsoft Windows	Windows

Screen images in this user manual

Unless stated otherwise, the printer driver functions are described using the printer driver for Windows XP.

Note

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

1.3 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.

2 Overview

2 Overview

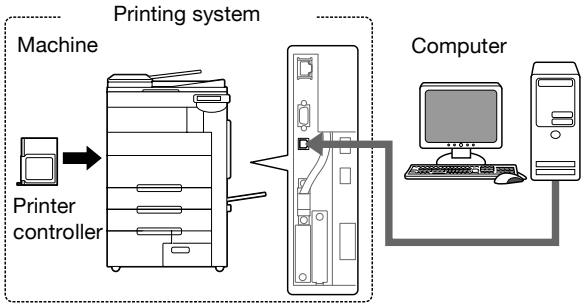
2.1 Printer controller

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

Role of the printer controller

The printer controller is built into the machine.

You can print 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.



Available printer controller functions

The printer controller provides the following functions.

- Printing from a computer (using the PCL printer driver or PS printer driver)
- Support of network protocols including TCP/IP (IPv4/IPv6), NetBEUI, 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 ("User Authentication" and "Account Track" functions)
- Fax operations using a computer (fax transmission)

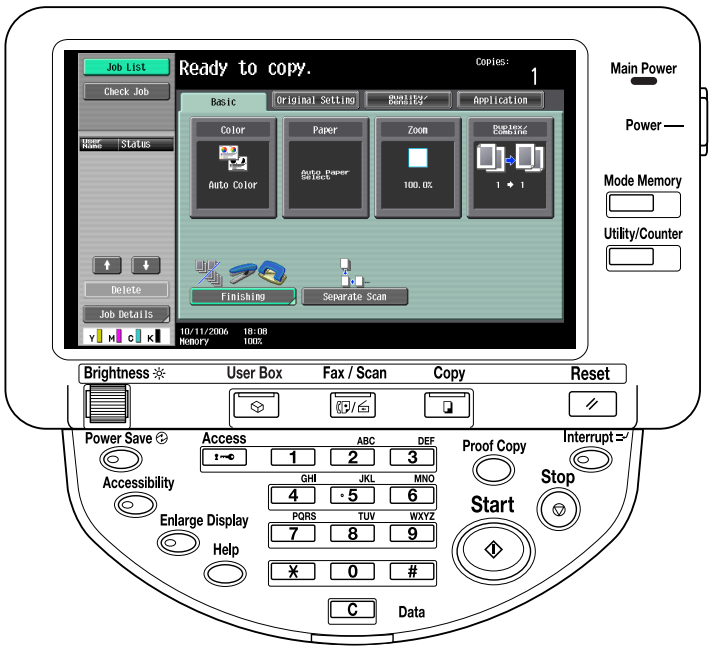
Note

To perform fax operations, optional fax kit FK-502 is required.

Machine modes

The printer driver settings are mainly set using a computer, however, the font list can be printed, and the printer controller settings and default print settings can be set using the control panel of this machine. In addition, fax and scanning operations can be used by switching the mode.

To switch between modes, press the mode keys on the control panel.



[Copy]

This machine can be used as a copier.

[Fax/Scan]

This machine can be used as a fax or as a scanner.

[User Box]

This machine can be used to store jobs and as a document folder for forwarding data to a computer over the network.

...

Note

You can use this machine as a printer in all modes.

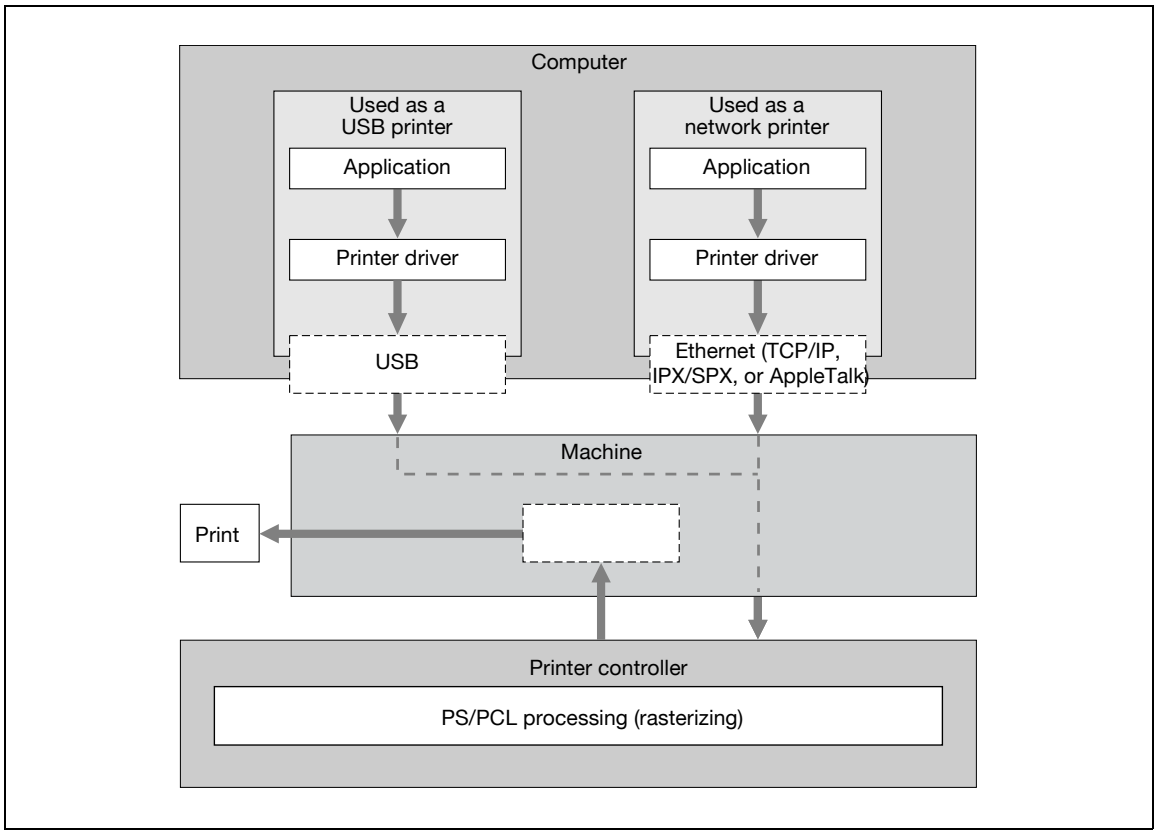
Change the default print settings in the Utility mode.

Printing flow

When using this printing system as a printer, the flow of the main process is described below.

Print commands transmitted from the application are received by the printer driver.

Data is transmitted to this machine over a USB interface when this machine is used as a USB printer, or over an Ethernet interface (TCP/IP, IPX/SPX, AppleTalk) when this machine is used as a network printer. 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 this machine as a copier, 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 copying is complete, the print job is automatically printed.

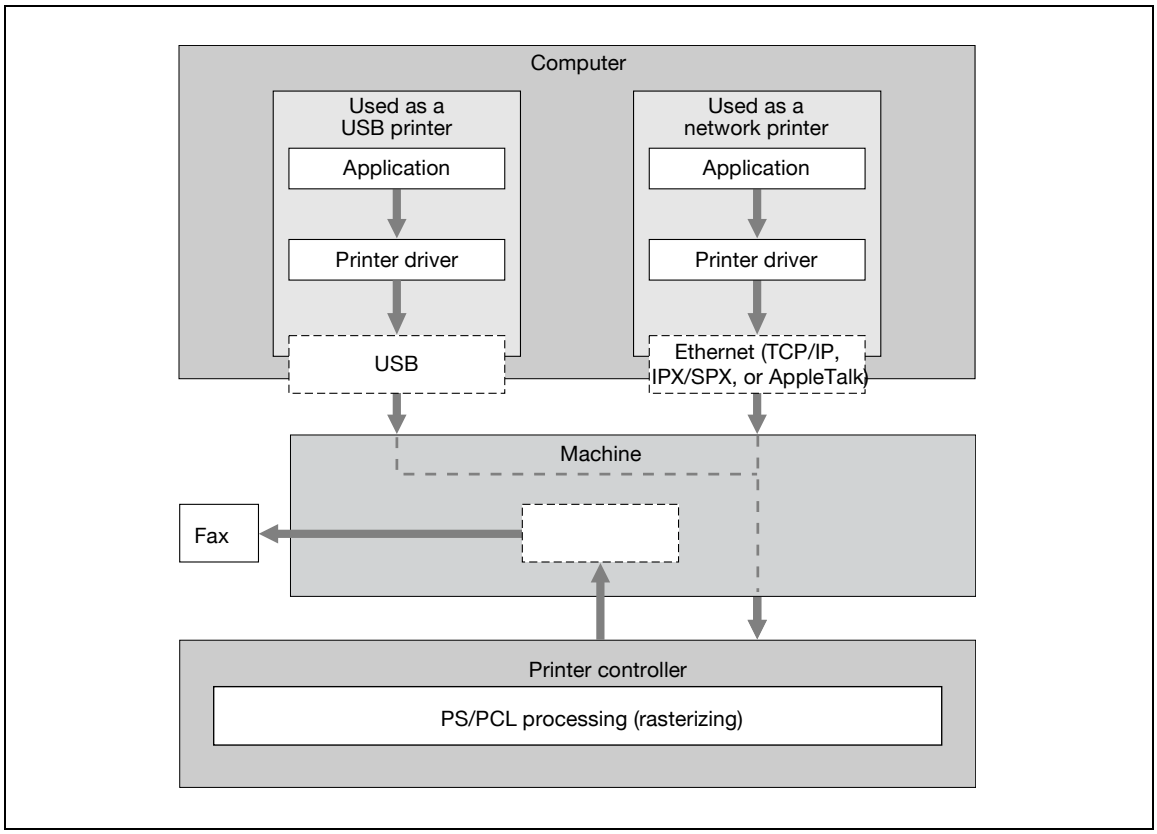
Flow of the PC-FAX operation

Conventionally, faxes are sent by loading an original into a fax machine and sending it.

With computer faxing, you can send a fax directly from your computer without using any paper.

Transmission commands sent from the application are received by the printer driver.

Data is transmitted to this machine over a USB interface when this machine is used as a USB printer, or over an Ethernet interface (TCP/IP, IPX/SPX, AppleTalk) when this machine is used as a network printer. 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 stored in the memory of this machine and transmitted like a conventional fax job.



2.2 Operating environment

The system requirements for using this printing system and the interfaces used for connection are explained below.

Compatible computers and operating systems

Check that the computer being connected meets the following conditions.

Windows

Item	Operating environment
Operating System	Windows NT 4.0 (Service Pack 6a or later), Windows 2000 Professional (Service Pack 4 or later), Windows XP Home Edition/Windows XP Professional (Service Pack 2 or later), Windows XP Professional x64 edition, Windows Server 2003 or Windows Server 2003 x64 edition
Processor	Pentium or higher
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 6 or later recommended (JavaScript enabled, Cookies enabled) Microsoft XML Parser MSXML3.X must be installed when using Internet Explorer 5.5. Netscape Navigator 7.02 or later (JavaScript enabled, Cookies enabled) Mozilla Firefox 1.0 or later (JavaScript enabled, Cookies enabled) Adobe® Flash® (If "Flash" is selected in View Mode, version 7.0 or later plugin is required.)

Macintosh

Item	Operating environment
Operating System	Mac OS 9.2, Mac OS X 10.2, Mac OS X 10.3, or Mac OS X 10.4
Processor	PowerPC, Intel Processor
Memory	Capacity recommended for the operating system
Drive	CD-ROM
Web Browser (when using Web Connection)	Netscape Navigator 7.02 or later (JavaScript enabled, Cookies enabled) Mozilla Firefox 1.0 or later (JavaScript enabled, Cookies enabled) Adobe® Flash® (If "Flash" is selected in View Mode, version 7.0 or later plugin is required.)

Compatible interfaces

The various interfaces that can be used to connect this printing system to a computer are described below.

Ethernet interface

Connect when using this printing system as a network printer.

Supports 10Base-T, 100Base-TX and 1000Base-T (d-Color MF450) standards. In addition, the Ethernet interface supports the TCP/IP (LDP/LPR, peer-to-peer), IPX/SPX (NetWare), and AppleTalk (EtherTalk).

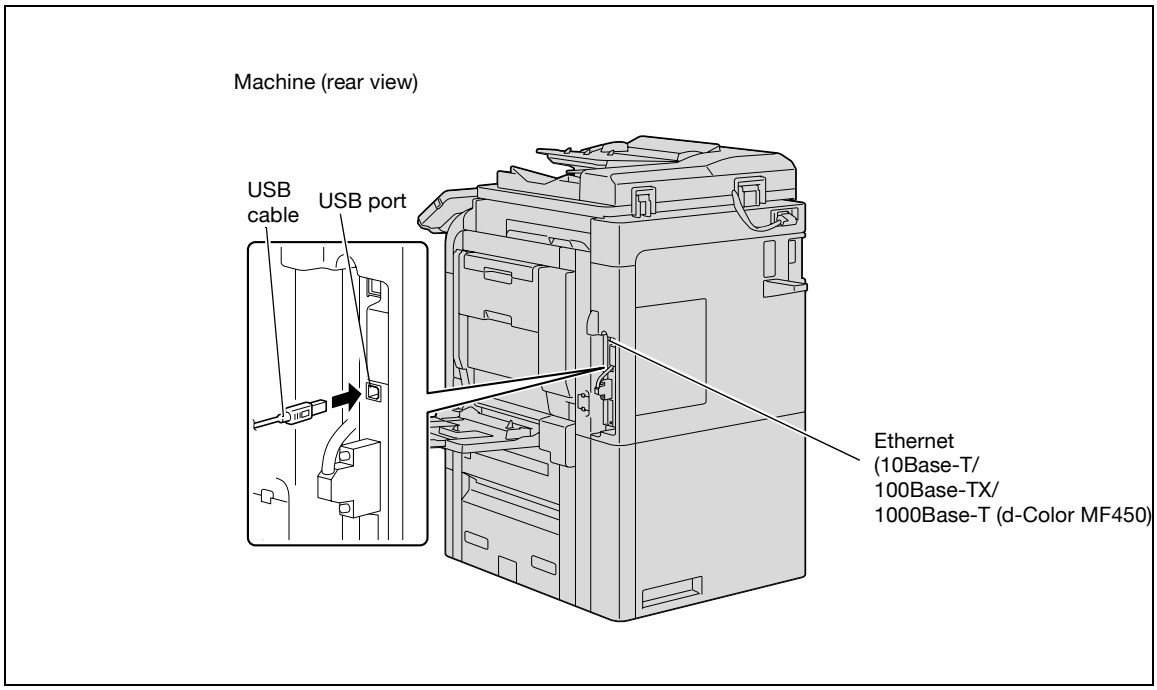
USB interface

Connect when using this printing system as a network printer.

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 3 meters or less is recommended.

Connection diagram

The printer cables can be connected to each port at the back of this machine.



2.3 Setting up the system

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

Setup consists of connecting this machine to a computer and installing the printer driver onto the computer being used.

To set up the printing system

Setup of the printing system as described below.

1 Connect this machine to a computer. (Refer to "Compatible interfaces" on page 2-8.)

2 When using a network connection, set up the network. (Refer to "Setting up network printing" on page 4-3.)

3 Install the printer driver. (Refer to "Installing the printer driver" on page 3-3.)

4 Check the setup by printing a test page. (Refer to "Test printing" on page 5-4.)

5 Install the screen fonts.

- The CD-ROM contain the Latin TrueType fonts as screen fonts.
- Install the screen fonts after adding the operating system standard fonts.
- For details, refer to Help of the operating system.
- The CD-ROM "ScreenFont" or "Screen Fonts" folder contains the screen fonts.
- The Macintosh fonts are compressed. Install the fonts after decompressing them.

Installation of the printer driver may differ depending on the connection method used with this machine in addition to the operating system of the computer and the type of printer driver being used.

Detail

For details on connecting this machine to a computer, refer to "Compatible interfaces" on page 2-8.

Note

To update an existing printer driver, delete the existing printer driver first.

As necessary, set the interface timeout settings in the Utility mode on the control panel. For details, refer to "Print settings in administrator mode" on page 11-28.

3 Installing the printer driver

3 Installing the printer driver

3.1 Printer drivers and supported operating systems

In order to use this printing system, the printer driver must be installed. The printer driver is a program that controls the processing of data for output. Install the printer driver onto the computer from the provided CD-ROM.

The printer drivers included on the CD and the supported computer operating systems are listed below. Install the required printer driver.

Printer driver	Page description language	Supported operating systems
PCL Driver (PCL driver)	PCL6	Windows NT 4.0 (Service Pack 6a), Windows 2000 Professional (Service Pack 4 or later), Windows XP Home Edition/Professional (Service Pack 2 or later), Windows XP Professional x64, Windows Server 2003, and Windows Server 2003 x64
PostScript Driver (PS driver)	PostScript3 Emulation	Windows 2000 Professional (Service Pack 4 or later), Windows XP Home Edition/Professional (Service Pack 2 or later), Windows XP Professional x64, Windows Server 2003, and Windows Server 2003 x64
PostScript PPD driver (PS-PPD)		Mac OS 9.2 or later Mac OS X 10.2, Mac OS X 10.3, and Mac OS X 10.4
PC-FAX driver		Windows NT 4.0 (Service Pack 6a), Windows 2000 Professional (Service Pack 4 or later), Windows XP Home Edition /Professional (Service Pack 2 or later), Windows XP Professional x64, Windows Server 2003, and Windows Server 2003 x64

3.2 When used with Windows

The installation procedure for the Windows printer driver differs depending on how this machine is connected to the computer and depending on which printer driver is used. The installation method also differs depending on the version of Windows that you are using. Refer to the table below for the appropriate procedure for installing the printer driver on your computer.

Printer driver	Connection method	Refer to
PCL Driver PostScript Driver PostScript PPD PC-FAX driver	Network connection	"Installing the printer driver using the Add Printer Wizard" on page 3-4 "For Windows 2000/NT 4.0" on page 3-5 "For Windows XP/Server 2003" on page 3-4
	USB connection	"Installing the printer driver using Plug and Play" on page 3-6 "For Windows 2000" on page 3-6 "For Windows XP/Server 2003" on page 3-7

Note

For details on installing the printer driver in a network environment, refer to "Setting up network printing" on page 4-3. Because it is necessary to specify other network settings in advance when installing the printer driver using a network connection, install it using a local connection at this time.

To install the printer driver under Windows XP, Windows Server 2003, Windows 2000, or Windows NT 4.0, log on using a user name that is authorized by the administrator.

Installing the printer driver using the Add Printer Wizard

For details on installing the printer driver in a network environment, refer to "Setting up network printing" on page 4-3. Because it is necessary to specify other network settings in advance when installing the printer driver using a network connection, install it using a local connection at this time.

For Windows XP/Server 2003

1 Insert the printer driver CD-ROM into the computer's CD-ROM drive.

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 select "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 up.

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.

6 The Select a Printer Port dialog box appears. Select "LPT1" here, and then click the [Next] button.

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 [OK] 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, PC-FAX driver

10 Click the [OK] button.

The "Printers" list appears.

11 Click the [Next] button.

12 Follow the on-screen instructions.

- When the Digital Signature dialog box appears, click the [Continue Anyway] button.
- When using a network connection, perform a test print after the network settings have been specified.

13 When installation is complete, make sure that the icon of the installed printer appears in the Printers and Faxes window.

14 Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

For Windows 2000/NT 4.0

1 Insert the printer driver CD-ROM into the computer's CD-ROM drive.

2 Click the [Start] button, point to "Settings", and then click "Printers".

The Printers window appears.

3 Double-click the "Add Printer" icon.

The Add Printer Wizard starts up.

4 Follow the on-screen instructions.

5 In the screen for selecting the printer connection, select "Local Printer".

6 Click the [Next] button.

- If the screen for specifying the port appears, select "LPT1" here.

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 [OK] 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, PC-FAX driver
  Windows NT 4.0: PCL driver, PC-FAX driver

10 Click the [OK] button.

The "Printers" list appears.

11 Click the [Next] button.

12 If the screen for specifying the port appears, select "LPT1" here.

13 Follow the on-screen instructions.

- When the Digital Signature dialog box appears, click the [Yes] button.
- When using a network connection, perform a test print after the network settings have been specified.

14 When installation is complete, make sure that the icon of the installed printer appears in the Printers window.

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

This completes the printer driver installation.

Installing the printer driver using Plug and Play

For Windows 2000

1 After using a USB cable to connect this machine to a computer, turn on the computer.

– Do not disconnect or connect the cable while the computer is starting up.

2 Insert the printer driver CD-ROM into the computer's CD-ROM drive.

3 Turn the main power of this machine on.

The Found New Hardware Wizard starts up.

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 [OK] 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, PC-FAX driver

7 Click the [OK] button, and then follow the on-screen instructions.

8 Click the [Finish] button.

9 When installation is complete, make sure that the icon of the installed printer appears in the Printers window.

10 Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

For Windows XP/Server 2003

1 After using a USB cable to connect this machine to a computer, turn the computer on.

– Do not disconnect or connect the cable while the computer is starting up.

2 Insert the printer driver CD-ROM into the computer's CD-ROM drive.

3 Turn the main power of this machine on.

– If the Add New Hardware Wizard does not start up, turn the main power off, then on again.
– When turning the power off, then on again, wait at least 10 seconds before turning the power on again; otherwise, this machine may not function properly.

The Found New Hardware Wizard dialog box appears.

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 [OK] button.

– Select the specified folder according to the printer driver to be used, the operating system, and the language.
– PCL Driver: Windows XP/Server 2003: PCL driver, PS driver, PC-FAX driver

7 Click the [Next] button, and then follow the on-screen instructions.

– When the Digital Signature dialog box appears, click the [Continue] button.

8 Click the [Finish] button.

9 When installation is complete, 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.

3.3 When used with Macintosh

The installation procedure for the Macintosh printer driver differs depending on the Mac OS version and printer driver being used. Refer to the table below for the appropriate procedure for installing the printer driver on your Macintosh computer.

Mac OS	Printer driver	Refer to
Mac OS X 10.2, Mac OS X 10.3, and Mac OS X 10.4	PostScript PPD	"Installing the printer driver" on page 3-8
Mac OS 9.2 or later	PostScript PPD	"Selecting a printer" on page 3-9

Installing the printer driver

For Mac OS X

1 Turn the Macintosh computer on.

2 Insert the printer driver CD-ROM into the computer's CD-ROM drive.

– Quit all running applications that may have started when the Macintosh computer was turned on.

3 Open 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.

4 Select the Mac OS version being used, and then copy the drive file onto the desktop.

d-Color MF550:
Mac OS X 10.2: GENERIC_45C-1_102.pkg
Mac OS X 10.3: GENERIC_45C-1_103.pkg
Mac OS X 10.4: GENERIC_45C-1_103.pkg

d-Color MF450:
Mac OS X 10.2: GENERIC_45C-2_102.pkg
Mac OS X 10.3: GENERIC_45C-2_103.pkg
Mac OS X 10.4: GENERIC_45C-2_103.pkg

5 Double-click the file copied onto the desktop.

– Enter the requested administrator's name and password.
– For the administrator's name and password, ask 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.

– From the second time the printer driver is installed and thereafter, the [Install] button may appear as the [Upgrade] button.

The printer driver is installed onto the Macintosh computer. When installation is complete, a message appears.

8 Click the [Close] button.

This completes the printer driver installation.
Next, select a printer.

Selecting a printer

For Mac OS X

After connecting this machine to a Macintosh computer, it can be used as a printer by selecting it in Print Center or Printer Setup Utility as the printer to be used.

1 Open Print Center or Printer Setup Utility, located in "Applications" – "Utilities" of "Hard Disk".

2 When the Add Printer dialog box appears, click the [Add] button. When the printer list appears, click the [Add] button.

- For Mac OS X 10.4, continue with step 3.
- For Mac OS X 10.2 and Mac OS X 10.3, skip to step 4.
- If usable printers have already been set up, the Add Printer dialog box does not appear.

3 If this machine appears as a printer with a Bonjour connection, select "GENERIC" from the "Print Using" drop-down list, select "GENERIC_45C-1 PS" ("GENERIC_45C-2 PS" on d-Color MF450) in the model list, and then click the [Add] button.

- If the selected printer is registered in the printer list, this completes the setting procedure.
- When connecting with AppleTalk and this machine does not appear as a printer, click the [More Printers] button, and then continue with step 4.
- If connecting using Bonjour with Mac OS X 10.4, the Bonjour settings must be specified on this machine. For specifying the Bonjour settings, refer to "Printing with Macintosh" on page 4-29.

4 Select the applicable connection method and printer name.

- To specify an AppleTalk zone for an AppleTalk connection, select "Local AppleTalk Zone".
- If connecting using AppleTalk, the AppleTalk settings on this machine must be specified. For specifying the AppleTalk settings, refer to "Printing with Macintosh" on page 4-29.
- If connecting using Rendezvous, the Bonjour settings on this machine must be specified. For specifying the Bonjour settings, refer to "Printing with Macintosh" on page 4-29.
- When "IPP" is selected as the protocol in IP Printer, the text box for entering the queue name appears. For Mac OS 10.3, leave the queue name text box empty. For Mac OS 10.4, enter "ipp" in the queue name text box.

5 Select "GENERIC" from the "Printer Model" drop-down list.

6 Select "GENERIC_45C-1 PS" ("GENERIC_45C-2 PS" on d-Color MF450), and then click the [Add] button.

The selected printer is registered in the printer list.

For Mac OS 9.2

After connecting this machine, it can be used as a printer by selecting "PostScript printer" under "Chooser" and by specifying the printer description (PPD) File.

First, copy the printer description (PPD) file onto the Macintosh computer.

1 Insert the printer driver CD-ROM into the computer's CD-ROM drive.

2 Open 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.

3 Select PPD file "GENERIC_45C-1UVxxx.ppd" ("GENERIC45C-1UVxxx.ppd" on d-Color MF450), and then copy it into the "Printer Descriptions" folder in "System Folder" – "Extensions" of "Hard Disk".

Next, select a printer.
The printer driver can use a standard Macintosh LaserWriter.

4 On the Apple menu, click "Chooser".

5 Make sure that "AppleTalk" is set to "Active", and then click the [LaserWriter] icon.

6 From the "Select a PostScript Printer" list, click the applicable printer for the printing system, and then click the [Create] button.

– If a different PPD file has already been selected, click the [Setup] button in step 6, and then click the [Select PPD] button from the screen that is already displayed.

The PostScript printer description (PPD) file selection screen appears.

7 Select the applicable PPD file, and then click the [Select] button or [Open] button.

The setting screen for adding options appears.

8 Select the options that are installed on this machine.

9 Click the [OK] button.

The Chooser window appears again.

10 Close the Chooser window.

Uninstalling the printer driver

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

Note
Quit all running applications that may have started when the Macintosh computer was turned on.

For Mac OS X

1 Open the Printer Setup Utility or Print Center, located in "Applications" – "Utilities" of "Hard Disk".

2 Select the name of the printer 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" – "en.lproj" of "Hard Disk", to the "Trash" icon.

– "GENERIC_45C-1.gz" ("GENERIC 45C-1.gz" on d-Color MF450)

5 Delete the unnecessary files from "Library"–"Printers".

Drag the "45C-1" ("45C-2" on d-Color MF450) folder, which is located in "Library" – "Printers" – "GENERIC", to the "Trash" icon.
For Mac OS 10.2, drag all the "GENERIC 45C-1" ("GENERIC 45C-2" on d-Color MF450) folders, which are located in "Library" – "Printers" – "PPD Plugins", to the "Trash" icon.

6 Restart the computer.

This completes the printer driver uninstallation procedure.

For Mac OS 9.2

1 Drag PPD file "GENERIC45C-1UVxxx.ppd" ("GENERIC_45C-2UVxxx.ppd" on d-Color MF450), which is located in "System Folder" – "Extensions" – "Printer Descriptions" of "Hard Disk", to the "Trash" icon.

The related printer driver files are deleted.

2 Restart the computer.

This completes the printer driver uninstallation procedure.

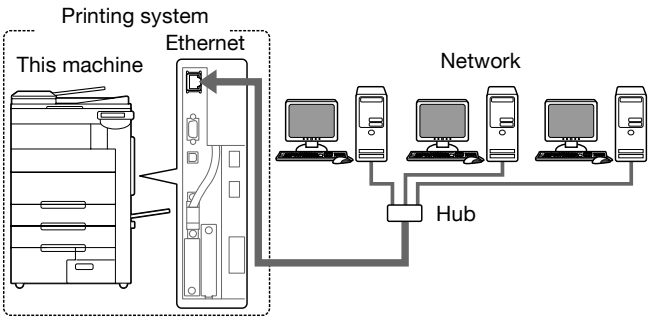
4 Setting up network printing

4 Setting up network printing

4.1 Overview of network functions

Network functions

By connecting this machine to a network through the Ethernet port, this printing system can be used as a network printer.



This printing system supports 10Base-T, 100Base-TX and 1000Base-T (d-Color MF450) standards. In addition, the Ethernet interface supports the TCP/IP (LDP/LPR, IPP, SMB), NetBEUI (SMB), IPX/SPX (NetWare), and AppleTalk (EtherTalk) protocols.

Note

When setting up the network, the administrator password is required to enter Administrator mode.

Ask the administrator of this machine for the administrator password.

Features of the network functions

This printing system is equipped with the following network functions to flexibly support various network environments.

- Automatic selection of 10Base-T, 100Base-TX and 1000Base-T (d-Color MF450) (Fast Ethernet)
- Obtains the IP address automatically from DHCP or BOOTP
- Printing with SMB printing (Windows 2000/XP/Server 2003)
  You can print with SMB in Windows 2000, Windows XP, or Windows Server 2003.
- Printing with LPR printing (Windows NT 4.0/2000/XP/Server 2003)
  You can print with LPD/LPR in Windows NT 4.0, Windows 2000, Windows XP, or Windows Server 2003.
  LPR (Line Printer Request): This print request system can be used under Windows NT 4.0, Windows 2000, Windows XP, or Windows Server 2003. Enter the queue name as "Print".
- Printing with Port 9100 (Windows 2000/XP/Server 2003)
  You can print with Port 9100 in Windows 2000, Windows XP, or Windows Server 2003.
- Supports Novell NetWare PServer and Rprinter (Nprinter)
- Supports the Novell NetWare print server functions and supports both bindery mode and Novell Directory Service (NDS)

With NetWare

The Novell NetWare 4.x–6 print server functions are supported.

You can connect this printing system to a network using Novell NetWare 4.x–6 as the network operating system and send print jobs from the client to the print server (network controller). The three modes supported are as follows:

- Nprinter
- PServer
- NDS/NDPS

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

With Macintosh

You can print from your Macintosh computer using LPR, AppleTalk, or Bonjour/Rendezvous.

You can also connect this printing system to a print server in an AppleTalk or a Bonjour/Rendezvous environment and send print jobs from the Macintosh computer to this machine.

Network connection methods that can be selected in each Windows operating system

This chapter describes the settings that must be specified for network printing.

Setting procedures differ depending on the method of networking printing used (SMB, LPR, or IPP printing). Select the best method of network printing for your Windows environment.

Network printing from a Windows operating system

	Protocol used	Windows 2000	Windows XP	Windows NT 4.0	Windows Server 2003
SMB printing	TCP/IP, NetBEUI	○	○		○
LPR printing	TCP/IP	○	○	○	○
IPP printing	TCP/IP	○	○		○
Port 9100 printing	TCP/IP	○	○		○

Reminder
Before setting up network printing, install the printer driver. For details on installing the printer driver, refer to "Installing the printer driver" on page 3-3.

To perform network printing, change the printer port for the installed printer driver to one for a network connection, and then change the settings on this machine as necessary.
For an IPP connection, it is necessary to install the printer driver first.

Network printing in a NetWare environment

NetWare version	Protocol used	Emulation	Service mode
NetWare 4.x	IPX	NDS/Bindery	PServer/Nprinter
NetWare 5.x/6	IPX	NDS	PServer
	TCP/IP	NDPS (lpr)	

4.2 Setting the IP address for this machine

Use this machine's control panel to assign an IP address to this machine.

...

Reminder

When specifying network settings, follow the instructions of the network administrator.

1 Press the [Utility/Counter] key in this machine's control panel, touch [Administrator Settings], and then enter the administrator password.

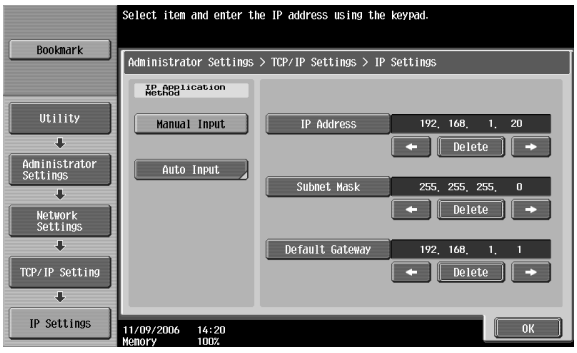
– The administrator password is required to enter Administrator mode. Ask the administrator of this machine for the administrator password.

2 Touch [Network Settings], then [TCP/IP Settings].

3 Touch [ON].

4 Touch [IP Settings].

5 Touch [Manual Input] under "IP Application Method".



6 Specify settings for the following:

– IP Address: Specify the IP address of this machine.
– Subnet Mask: Specify the subnet mask for the network to which you are connecting.
– Default Gateway: Specify the default gateway address for the network to which you are connecting.

7 Touch [OK].

8 To apply the settings, restart this machine (turn the main power off, then on again).

Turn this machine back on to apply the IP address.

...

Reminder

When turning the power off, then on again, wait at least 10 seconds before turning the power on again; otherwise, this machine may not function properly.

Detail

Although the method for entering a static IP address without using the DHCP server is described in the procedure here, it is also possible to automatically assign the IP address from the DHCP server. When "IP Application Method" is specified as "Auto Input" and "DHCP Settings" is set to "ON" in the setting screen that is displayed, the IP address, subnet mask, and gateway address settings are automatically assigned from the DHCP server on the network, so it is not necessary to assign them manually. However, note the following when setting "DHCP Settings" to "ON".

Check with the network administrator that the DHCP server exists. If the DHCP server does not exist, be sure to specify settings for "IP Address", "Subnet Mask", and "Default Gateway".

If the settings for the IP address and other items have been assigned using the DHCP server, there is a possibility that they may be automatically changed. When the settings for the IP address and other items are changed, if the IP address has been used to specify a printer on the network for printing, there is a possibility that printing may not be possible because this machine cannot communicate with the network. If "DHCP Settings" has been set to "ON", it is recommended that the IP address assigned to this machine be fixed in the DHCP server settings.

4.3 Accessing Web Connection

Setting the IP address for this machine enables you to access Web Connection.

With Web Connection, you can change the network settings of this machine from a computer.

Use your Web browser to directly access Web Connection.

1 Start up the Web browser.

2 In the "Address" bar, enter the IP address for this machine as shown below, and then press the [Enter] key.

- http://<IP_address_for_this_machine>/
  Example: If the IP address for this machine is 192.168.1.20
  http://192.168.1.20/
- If IPv6 is enabled and a Web browser other than Internet Explorer is used, enter the IPv6 address enclosed in brackets to access Web Connection.
  http://[IPv6_address_for_this_machine]/
  Example: If the IPv6 address for this machine is fe80::220:6bff:fe10:2f16
  http://[fe80::220:6bff:fe10:2f16]/
- If IPv6 is enabled and Internet Explorer is used, edit the hosts file to note "fe80::220:6bff:fe10:2f16IPv6 IPv6_MFP_1" and specify the URL according to the domain name.

The initial page of Web Connection appears.

For further details on Web Connection, refer to the User manual – Page Scope Web Connection Operations.

Note
If the user authentication function is enabled, you must enter a user name and password.

4.4 SMB printing

You can use SMB printing (Windows printing) to print directly over the Microsoft network from computers running Windows.

Operations on this machine

Set the IP address for this machine. For the setting procedure, refer to "Setting the IP address for this machine" on page 4-5.

Next, specify the SMB print settings for this machine as described below.

Note
The settings can also be specified from Web Connection.

1 Press the [Utility/Counter] key in this machine's control panel, touch [Administrator Settings], and then enter the administrator password.

- The administrator password is required to enter Administrator mode. Ask the administrator of this machine for the administrator password.

2 Touch [Network Settings], [SMB Settings], then [Print Settings].

3 Touch [ON].

4 Specify settings for the following. After specifying the settings, touch [OK].

- NetBIOS Name: Specify the NetBIOS name (up to 15 characters).
- Print Service Name: Specify the printing service name (up to 12 characters).
- Workgroup: Specify the work group name (up to 15 characters).

5 To apply the settings, restart this machine (turn the main power off, then on again).

Reminder
When turning the power off, then on again, wait at least 10 seconds before turning the power on again; otherwise, this machine may not function properly.

Printer driver settings

1 For Windows 2000, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, 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 select "Printers and Faxes".

2 Right-click the icon of the installed printer, and then click "Properties".

3 Click the [Add Port] button on the Ports tab, double-click "Local Port" or select "Local Port" and click the [New Port] button, and then enter "\\<NetBIOS_name>\<printing_service_name>".

– Enter the same NetBIOS name and print service name that you entered for the SMB print settings for this machine. For the setting procedure, refer to "Operations on this machine" on page 4-8.

4 Click the [Close] button to apply the setting.

4.5 LPR printing

The LPR print service is supported as standard in Windows 2000, Windows XP, Windows NT 4.0, and Windows Server 2003. TCP/IP is used as the network protocol.

Operations on this machine

Set the IP address for this machine. For the setting procedure, refer to "Setting the IP address for this machine" on page 4-5.

Printer driver settings

For Windows 2000/XP/Server 2003

1 For Windows 2000, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, 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 select "Printers and Faxes".

2 Right-click the icon of the installed printer, and then click "Properties".

3 On the Ports tab, click the [Add Port] button.

4 In the "Available Printer Ports" list, select "Standard TCP/IP Port", and then click the [New Port] button.

5 When the Add Standard TCP/IP Printer Port Wizard starts up, click the [Next] button.

6 In the "Name of printer or IP address" box, enter the IP address for this machine, and then click the [Next] button.

7 Select "Custom", and then click the [Settings] button.

8 Select "LPR", enter "Print" in the "Queue Name" box, and then click the [OK] button.
The uppercase letters and lowercase letters must be entered correctly.

9 Click the [Next] button, and then click the [Finish] button to apply the setting.

For Windows NT 4.0

1 Click the [Start] button, point to "Settings", and then click "Printers".

2 Right-click the icon of the installed printer, and then click "Properties".

3 On the Ports tab, click the [Add Port] button.

4 In the "Available Printer Ports" list, select "LPR Port", and then click the [New Port] button.

– If "LPR Port" is not in the list, click the [Start] button, point to "Control Panel", and then click "Network". Then, on the Service tab, click the [Add] button and install the Microsoft TCP/IP Printing Services.

5 In the "Name or address of server providing lpd" box on the Add LPR Compatible Printer dialog box, enter the IP address for this machine.

6 In the "Name of printer or print queue on that server" box, enter "Print".
The uppercase letters and lowercase letters must be entered correctly.

7 Click the [OK] button to apply the setting.

4.6 Port 9100 printing (Windows 2000/XP/Server 2003)

The Port 9100 print service is supported as standard in Windows 2000, Windows XP, and Windows Server 2003. TCP/IP is used as the network protocol.

Operations on this machine

Set the IP address for this machine. For the setting procedure, refer to "Setting the IP address for this machine" on page 4-5.

Printer driver settings (Windows 2000/XP/Server 2003)

When using Port 9100 to print, change the printer driver port to the Port 9100 port.

1 For Windows 2000, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, 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 select "Printers and Faxes".

2 Right-click the icon of the installed printer, and then click "Properties".

3 On the Ports tab, click the [Add Port] button.

4 In the "Available Printer Ports" list, select "Standard TCP/IP Port", and then click the [New Port] button.

5 When the Add Standard TCP/IP Printer Port Wizard starts up, click the [Next] button.

6 In the "Name of printer or IP address" box, enter the IP address for this machine, and then click the [Next] button.

7 Select "Custom", and then click the [Settings] button.

8 Select "RAW", and then enter the RAW port number (the default setting is "9100") in the "Port Number" box.

9 Click the [Next] button, and then click the [Finish] button to apply the setting.

Note
If the RAW port is not specified to be used in the TCP/IP setting, printing cannot be performed.

4.7 IPP printing (Windows 2000/XP/Server 2003)

The IPP (Internet Printing Protocol) print service is supported as standard in Windows 2000, Windows XP, and Windows Server 2003. TCP/IP is used as the network protocol.

Operations on this machine

Set the IP address for this machine. For the setting procedure, refer to "Setting the IP address for this machine" on page 4-5.

Next, specify the IPP settings for this machine as described below.

Note

The settings can also be specified from Web Connection.

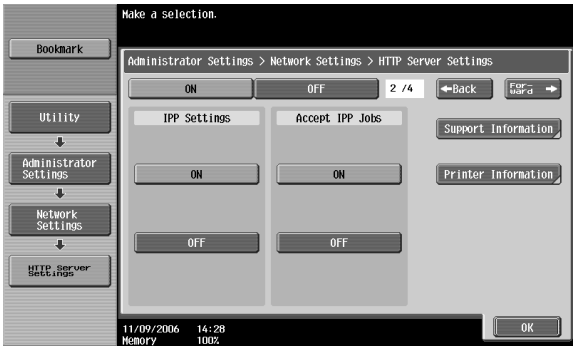
1 Press the [Utility/Counter] key in this machine's control panel, touch [Administrator Settings], and then enter the administrator password.

– The administrator password is required to enter Administrator mode. Ask the administrator of this machine for the administrator password.

2 Touch [Network Settings], then [HTTP Server Settings].

3 Touch [ON]. After specifying the settings, touch [Forward].

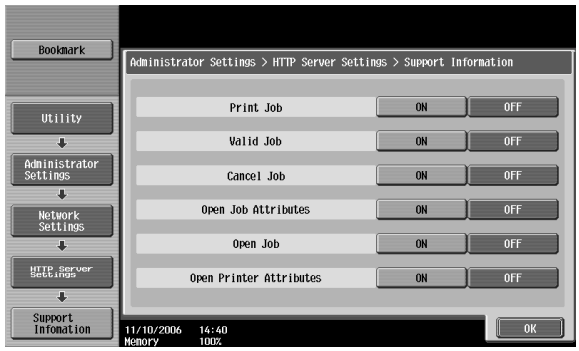
4 Touch [ON] under "IPP Settings" and "Accept IPP Jobs".



5 Touch [Printer Information], and then specify settings for the following. After specifying the settings, touch [Close].

- Printer Name: Specify the printer name (up to 127 characters).
- Printer Location: Specify the printer location (up to 127 characters).
- Printer Information: Specify the printer manufacturer details (up to 127 characters).

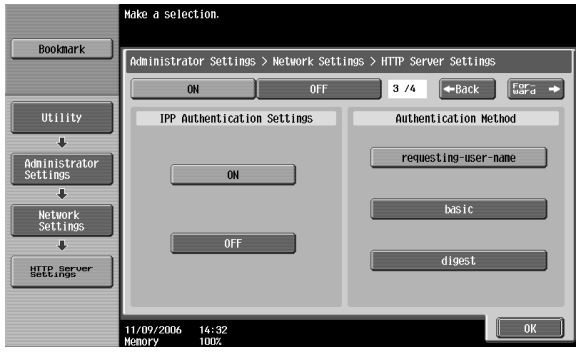
6 Touch [Support Information], and then specify the print operations supported by IPP. After specifying the settings, touch [OK].



7 Touch [Forward].

8 Specify settings for the following. After specifying the settings, touch [Forward].

- IPP Authentication Settings: Select [ON].
- Authentication Method: Select the IPP authentication method.



9 Specify the user name and password. After specifying the settings, touch [OK].

10 To apply the settings, restart this machine (turn the main power off, then on again).

...

Reminder

When turning the power off, then on again, wait at least 10 seconds before turning the power on again; otherwise, this machine may not function properly.

Installing the printer driver

For IPP printing, reinstall the printer driver.

1 Insert the printer driver CD-ROM into the computer's CD-ROM drive.

2 For Windows 2000, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, 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 select "Printers and Faxes".

3 For Windows 2000/Server 2003, double-click the "Add Printer" icon.
For Windows XP, click "Add a printer" on the "Printer Tasks" menu.

The Add Printer Wizard starts up.

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_for_this_machine>/ipp
Example: If the IP address for this machine is 192.168.1.20
http://192.168.1.20/ipp

8 When the confirmation dialog box appears, click the [OK] button.

9 Click the [Have Disk] button.

10 Specify the desired folder on the CD-ROM that contains the printer driver, and then click the [OK] 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

11 Check that the printer name is displayed in the "Printers" list, and then click the [Next] button.

12 Select whether to set the printer as the default printer, and then click the [Next] button.

13 Click the [Finish] button to exit the Add Printer Wizard.

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.

4.8 Printing with NetWare

The printer controller supports the following environments.

Network printing in a NetWare environment

NetWare version	Protocol used	Emulation	Service mode
NetWare 4.x	IPX	NDS/Bindery	PServer/Nprinter
NetWare 5.x/6	IPX	NDS	PServer
	TCP/IP	NDPS (lpr)	

For Remote Printer mode with NetWare 4.x bindery emulation

Note
Before using bindery emulation, check that bindery emulation is compatible with the NetWare server.

1 From a client computer, log on with Supervisor permissions to access the NetWare server where the PServer is registered.

2 Start up Pconsole.

3 From the "Available Options" list, select "Quick Setup", and then click the [Enter] button.

4 Enter the appropriate names in the "Printer Server Name", "Printer Name", "Print Queue Name", and "Print Queue Volume" fields, select "Other/Unknown" from the "Printer type" field, and then save the specified settings.

5 Click the [Esc] button to quit Pconsole.

6 Use the NetWare server console to load PSERVER.NLM.

Detail
For queue user privileges, printer notification options, assignment of multiple queues, and passwords, refer to the NetWare documentation, and specify the settings as necessary.

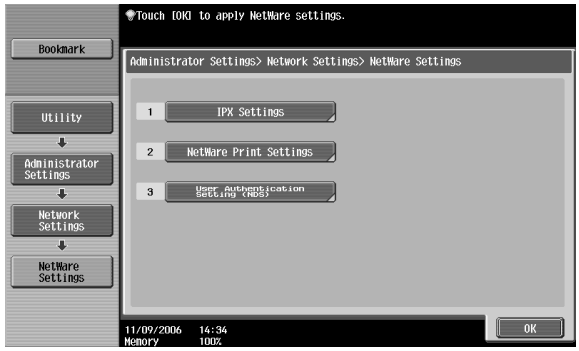
Next, specify the NetWare settings for this machine as described below.

Note
The settings can also be specified from Web Connection.

1 Press the [Utility/Counter] key in this machine's control panel, touch [Administrator Settings], and then enter the administrator password.

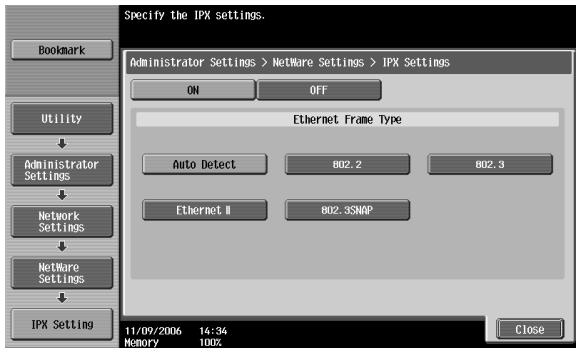
– The administrator password is required to enter Administrator mode. Ask the administrator of this machine for the administrator password.

2 Touch [Network Settings], then [NetWare Settings].



3 Touch [IPX Settings], and then specify settings for the following. After specifying the settings, touch [Close].

– IPX Setting: Select [ON].
– Ethernet Frame Type: Select "Auto Detect". (Select the frame type according to the network environment.)



4 In the NetWare Settings screen, touch [NetWare Print Settings], and then specify settings for the following.

– NetWare Print Settings: Select [ON].
– NetWare Print Mode: Select [Nprinter/Rprinter].

5 Specify settings for the following. After specifying the settings, touch [Close].

– Print Server Name: Specify the Print Server Name.
– Printer Number: Specify the printer number (0 to 254), or select [Auto].

6 Touch [Close].

7 In the NetWare Settings screen, touch [User Authentication Setting (NDS)], and then specify settings for the following. After specifying the settings, touch [Close].

– User Authentication Setting (NDS): Select [ON]. (Depending on the network environment, select [OFF].)

8 In the NetWare Settings screen, touch [Close].

9 Restart this machine (turn the main power off, then on again).

10 Use the NetWare server console to display the print server screen, and then check that the created printer is shown as "Waiting for Job" for the connected printer (0).

...

Reminder

When turning the power off, then on again, wait at least 10 seconds before turning the power on again; otherwise, this machine may not function properly.

For Print Server mode with NetWare 4.x bindery emulation

Note
Before using bindery emulation, check that bindery emulation is compatible with the NetWare server.

1 From a client computer, log on with Supervisor permissions to access the NetWare server where the PServer is registered.

2 Start up Pconsole.

3 From the "Available Options" list, select "Quick Setup", and then click the [Enter] button.

4 Enter the appropriate names in the "Printer Server Name", "Printer Name", "Print Queue Name", and "Print Queue Volume" fields, select "Other/Unknown" from the "Printer type" field, and then save the specified settings.

5 Click the [Esc] button to quit Pconsole.

Next, specify the NetWare settings for this machine as described below.

Note
The settings can also be specified from Web Connection.

1 Press the [Utility/Counter] key in this machine's control panel, touch [Administrator Settings], and then enter the administrator password.

– The administrator password is required to enter Administrator mode. Ask the administrator of this machine for the administrator password.

2 Touch [Network Settings], then [NetWare Settings].

3 Touch [IPX Settings], and then specify settings for the following. After specifying the settings, touch [Close].

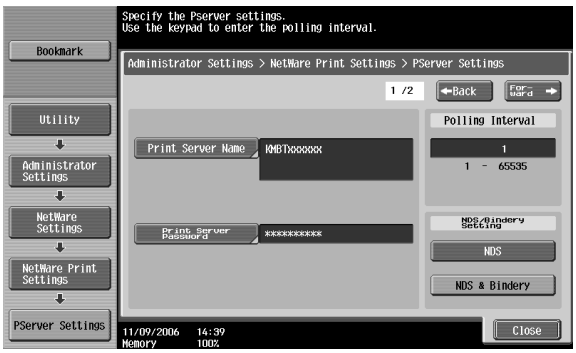
- IPX Setting: Select [ON].
- Ethernet Frame Type: Select "Auto Detect". (Select the frame type according to the network environment.)

4 In the NetWare Settings screen, touch [NetWare Print Settings], and then specify settings for the following. After the NetWare print mode is selected, the screen switches automatically.

- NetWare Print Settings: Select [ON].
- NetWare Print Mode: Select [PServer].

5 Specify settings for the following. After specifying the settings, touch [Forward].

- Print Server Name: Specify the print server name created with Pconsole.
- Print Server Password: Specify only when setting from the NetWare server.
- Polling Interval: Specify 1. (Change as necessary.)
- NDS/Bindery Setting: Select [NDS & Bindery].



6 Specify settings for the following. After specifying the settings, touch [Close].

– File Server Name: Specify the name of the file server that connects to the PServer.
– NDS Context Name: Specify the name of the context that connects to the PServer.
– NDS Tree Name: Specify the name of the tree that PServer logs on to.

7 Touch [Close].

8 In the NetWare Settings screen, touch [User Authentication Setting (NDS)], and then specify settings for the following. After specifying the settings, touch [Close].

– User Authentication Setting (NDS): Select [ON]. (Depending on the network environment, select [OFF].)

9 In the NetWare Settings screen, touch [Close].

10 Restart this machine (turn the main power off, then on again).

11 Use the NetWare server console to load MONITOR.NLM.

12 Select the connection information and, in the active connection column, check that the created PServer is connected.

...

Reminder

When turning the power off, then on again, wait at least 10 seconds before turning the power on again; otherwise, this machine may not function properly.

For NetWare 4.x Remote Printer mode (NDS)

1 Log on to NetWare as an administrator from a client computer.

2 Start up NWadmin.

3 Select either the organization or organizational unit container that offers the print service, and then click "Print Services Quick Setup" on the "Tools" menu.

4 Enter the appropriate names in the "Printer Server Name", "Printer Name", "Print Queue Name", and "Print Queue Volume" fields, select "Other/Unknown" from the "Printer type" field, and then save the specified settings.

Detail
For queue user privileges, printer notification options, assignment of multiple queues, and passwords, refer to the NetWare documentation, and specify the settings as necessary.

Next, specify the NetWare settings for this machine as described below.

Note
The settings can also be specified from Web Connection.

1 Press the [Utility/Counter] key in this machine's control panel, touch [Administrator Settings], and then enter the administrator password.

– The administrator password is required to enter Administrator mode. Ask the administrator of this machine for the administrator password.

2 Touch [Network Settings], then [NetWare Settings].

3 Touch [IPX Settings], and then specify settings for the following. After specifying the settings, touch [Close].

– IPX Setting: Select [ON].
– Ethernet Frame Type: Select "Auto Detect". (Select the frame type according to the network environment.)

4 In the NetWare Settings screen, touch [NetWare Print Settings], and then specify settings for the following. After the NetWare print mode is selected, the screen switches automatically.

– NetWare Print Settings: Select [ON].
– NetWare Print Mode: Select [Nprinter/Rprinter].

5 Specify settings for the following. After specifying the settings, touch [Close].

– Print Server Name: Specify the Print Server Name.
– Printer Number: Specify the printer number (0 to 254), or select [Auto].

6 Touch [Close].

7 In the NetWare Settings screen, touch [User Authentication Setting (NDS)], and then specify settings for the following. After specifying the settings, touch [Close].

– User Authentication Setting (NDS): Select [ON]. (Depending on the network environment, select [OFF].)

8 In the NetWare Settings screen, touch [Close].

9 Restart this machine (turn the main power off, then on again).

10 Use the NetWare server console to load PSERVER.NLM.

11 Use the NetWare server console to display the print server screen, and then check that "45C-1"/"45C-2" (created printer) is shown as "Waiting for Job" for the connected printer (0).

Reminder
When turning the power off, then on again, wait at least 10 seconds before turning the power on again; otherwise, this machine may not function properly.

For NetWare 4.x/5.x/6 Print Server mode (NDS)

Note
To use the Print Server mode, the IPX protocol must be loaded on the NetWare server.

1 Log on to NetWare as an administrator from a client computer.

2 Start up NWadmin.

3 Select either the organization or organizational unit container that offers the print service, and then click "Print Services Quick Setup (non-NDPS)" on the "Tools" menu.

4 Enter the appropriate names in the "Printer Server Name", "Printer Name", "Print Queue Name", and "Print Queue Volume" fields, select "Other/Unknown" from the "Printer Type" field, and then click the [Create] button.

Detail
For queue user privileges, printer notification options, assignment of multiple queues, and passwords, refer to the NetWare documentation, and specify the settings as necessary.

Next, specify the NetWare settings for this machine as described below.

Note
The settings can also be specified from Web Connection.

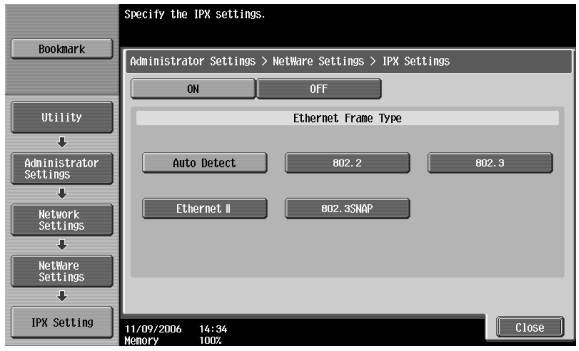
1 Press the [Utility/Counter] key in this machine's control panel, touch [Administrator Settings], and then enter the administrator password.

– The administrator password is required to enter Administrator mode. Ask the administrator of this machine for the administrator password.

2 Touch [Network Settings], then [NetWare Settings].

3 Touch [IPX Settings], and then specify settings for the following. After specifying the settings, touch [Close].

– IPX Setting: Select [ON].
– Ethernet Frame Type: Select "Auto Detect". (Select the frame type according to the network environment.)

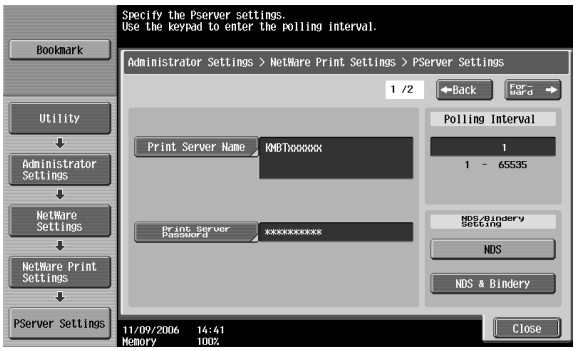


4 In the NetWare Settings screen, touch [NetWare Print Settings], and then specify settings for the following. After the NetWare print mode is selected, the screen switches automatically.

- NetWare Print Settings: Select [ON].
- NetWare Print Mode: Select [PServer].

5 Specify settings for the following. After specifying the settings, touch [Close].

- Print Server Name: Specify the print server name created in NWadmin.
- Print Server Password: Specify only when setting from the NetWare server.
- Polling Interval: Specify 1. (Change as necessary.)
- NDS/Bindery Setting: Select [NDS].



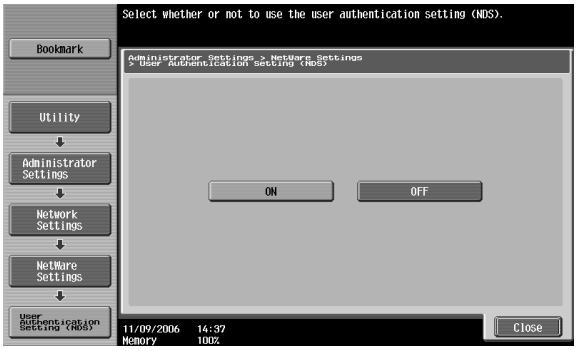
6 Specify settings for the following. After specifying the settings, touch [Close].

- File Server Name: Specify the name of the file server that connects to the PServer.
- NDS Context Name: Specify the name of the context that connects to the PServer.
- NDS Tree Name: Specify the name of the tree that PServer logs on to.

7 Touch [Close].

8 In the NetWare Settings screen, touch [User Authentication Setting (NDS)], and then specify settings for the following. After specifying the settings, touch [Close].

– User Authentication Setting (NDS): Select [ON]. (Depending on the network environment, select [OFF].)



9 In the NetWare Settings screen, touch [Close].

10 Restart this machine (turn the main power off, then on again).

11 Use the NetWare server console to load MONITOR.NLM.

12 Select the connection information and, in the active connection column, check that the created PServer is connected.

...

Reminder

When turning the power off, then on again, wait at least 10 seconds before turning the power on again; otherwise, this machine may not function properly.

For NetWare 5.x/6 Novell Distributed Print Service (NDPS)

...

Note

Before specifying settings for NDPS, check that the NDPS broker and NDPS manager have been created and loaded.

Also, before performing the following procedure, check that the TCP/IP protocol has been set in the NetWare server, and check that the IP address has been set for this machine and that this machine is on.

1 Log on to NetWare as an administrator from a client computer.

2 Start up NWadmin.

3 Right-click the organization or organizational unit container where you will create the printer agent, and then click "NDPS Printer" on the "Create" sub-menu.

4 In the "NDPS Printer Name" box, enter the printer name.

5 In the "Printer Agent Source" column, select "Create a New Printer Agent", and then click the [Create] button.

6 Check the printer agent name, and then in the "NDPS Manager Name" box, browse through the NDPS manager names, and register one.

7 In "Gateway Types", select "Novell Printer Gateway", and then register it.

8 In the Configure Novell PDS for Printer Agent window, select "(None)" for the printer type and "Novell Port Handler" for the port handler type, and then register the settings.

9 In "Connection type", select "Remote (LPR on IP)", and then register it.

10 Enter the IP address set for this machine as the host address, enter "Print" as the printer name, and then click the [Finish] button to register the settings.

11 The printer driver registration screen appears. Select "None" for each operating system to complete the registration.

Detail
For printer user rights, printer notification options, and assignment of queues, refer to the NetWare documentation, and specify the settings as necessary.

Specifying client (Windows) settings when using the NetWare server

1 For Windows 2000/NT 4.0, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, 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 select "Printers and Faxes".

2 For Windows 2000/NT 4.0/Server 2003, double-click the "Add Printer" icon.
For Windows XP, click "Add a printer" on the "Printer Tasks" menu.

The Add Printer Wizard starts up.

3 In the port settings, browse the network, and specify the name of the created queue (or NDPS printer name).

4 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/Server 2003: PCL driver, PS driver
Windows NT 4.0: PCL driver

5 Follow the on-screen instructions to complete the installation.

4.9 Printing with Macintosh

This section describes this machine's settings and the Macintosh network settings.

Specify the printer network port settings after installing the printer driver and when selecting a printer. To select a printer, refer to "Selecting a printer" on page 3-9.

Operations on this machine

Set the IP address for this machine. For the setting procedure, refer to "Setting the IP address for this machine" on page 4-5.

Next, specify the AppleTalk or Bonjour settings for this machine as described below.

Note
The settings can also be specified from Web Connection.

Specifying the AppleTalk settings

When connecting this machine to a Macintosh computer using AppleTalk, the AppleTalk settings must be specified.

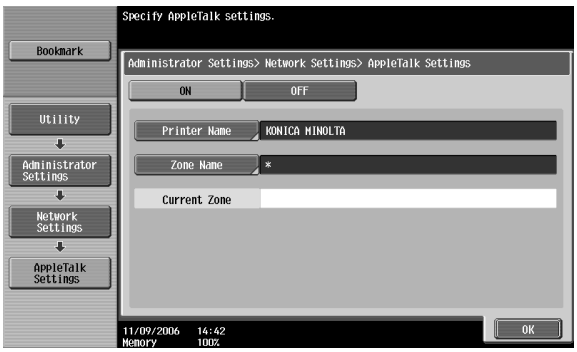
1 Press the [Utility/Counter] key in this machine's control panel, touch [Administrator Settings], and then enter the administrator password.

– The administrator password is required to enter Administrator mode. Ask the administrator of this machine for the administrator password.

2 Touch [Network Settings], then [AppleTalk Settings].

3 Specify settings for the following. After specifying the settings, touch [OK].

– AppleTalk Setting: Select [ON].
– Printer Name: Specify the printer name (up to 31 characters).
– Zone Name: Specify the zone being connected to (up to 31 characters).



4 To apply the settings, restart this machine (turn the main power off, then on again).

Reminder
When turning the power off, then on again, wait at least 10 seconds before turning the power on again; otherwise, this machine may not function properly.

Specifying the Bonjour settings

When connecting this machine to a Macintosh computer using Bonjour/Rendezvous, the Bonjour settings must be specified.

Note
The Bonjour connection is a Mac OS X 10.4 function, it is the same function as the Rendezvous connection in Mac OS 10.3 or earlier.

1 Press the [Utility/Counter] key in this machine's control panel, touch [Administrator Settings], and then enter the administrator password.

- The administrator password is required to enter Administrator mode. Ask the administrator of this machine for the administrator password.

2 Touch [Network Settings], then [Bonjour Setting].

3 Specify settings for the following. After specifying the settings, touch [OK].

- Bonjour Setting: Select [ON].
- Bonjour Name: Specify the Bonjour name that is to appear as the connected device name (up to 63 characters).

4 To apply the settings, restart this machine (turn the main power off, then on again).

Reminder
When turning the power off, then on again, wait at least 10 seconds before turning the power on again; otherwise, this machine may not function properly.

Setting the Macintosh computer

Use the Macintosh computer that is connected to specify the TCP/IP and AppleTalk settings.

Note

For network settings, consult the network administrator.

For the printer driver installation procedure, refer to "Installing the printer driver" on page 3-3.

Since Bonjour (a Mac OS X 10.4 function) is always enabled, it is not required to change the settings. Bonjour/Rendezvous is a Mac OS X function. For Mac OS 9.2, connect using AppleTalk.

For Mac OS X

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 the items from "Configure" that correspond to the network settings for the Macintosh computer that is connected to the network, and then set the IP address and subnet mask.
6. If using an AppleTalk connection, click the AppleTalk tab, and then check that the "Make AppleTalk Active" check box is selected.
7. Click the close button at the top left of the dialog box.

   The "Apply configuration changes?" message appears.
8. Click the [Apply] button.

   The changed setting are saved.

For Mac OS 9.2

1. On the Apple menu, point to "Control Panel", and then click "AppleTalk".
2. From the "Connect via" drop-down list, select "Ethernet".
3. On the Apple menu, point to "Control Panel", and then click "TCP/IP".
4. From the "Connect via" drop-down list, select "Ethernet".
5. Select the items from "Configure" that correspond to the network settings for the Macintosh computer that is connected to the network, and then set the IP address and subnet mask.
6. Click the close button at the top left of the dialog box.

   The "Save changes to the current configuration?" message appears.
7. Click the [Save] button.

5 Various printing methods

5 Various printing methods

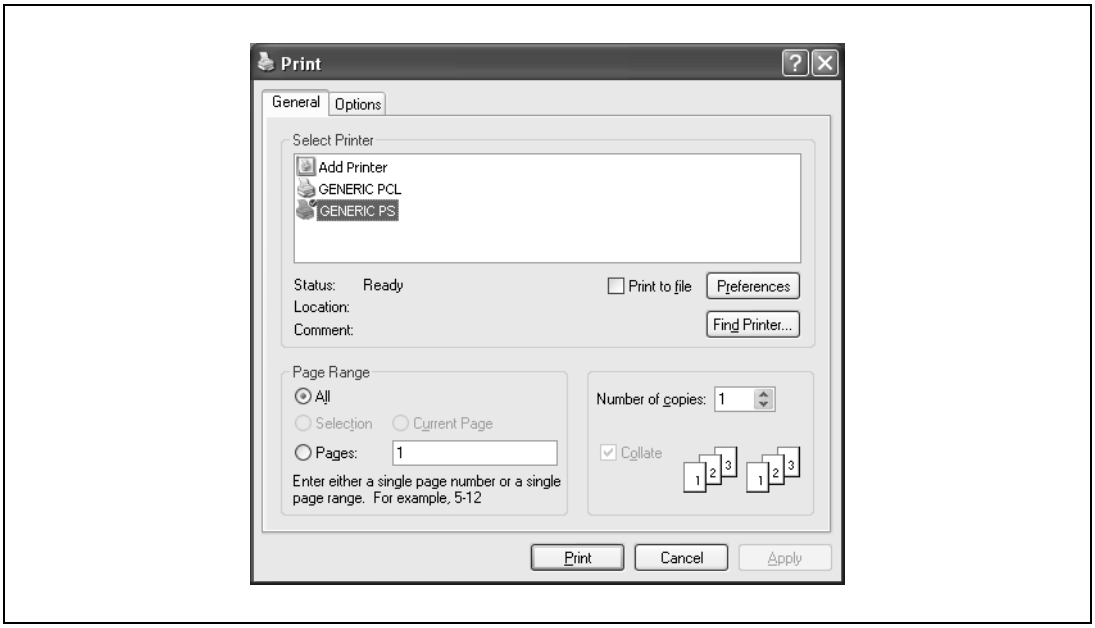
5.1 Printing operations

For Windows

Print jobs are specified from the application software.

1 Open the data in the application, click [File], and then click [Print].

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 print.

4 Click the [Properties] button or the [Preferences] button to change the printer driver settings as necessary.

– By clicking the [Preferences] button or the [Properties] 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 "Setting up the PCL driver (Windows)" on page 6-3, or "Setting up the PostScript driver (Windows)" on page 7-3.
– 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.

Test printing

Printing is possible when the printer driver is installed and the network settings have been specified. To check that the connection has been made properly, you can print the standard Windows test page.

Print a test page from the printer driver Properties dialog box.

1 For Windows 2000/NT 4.0, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, 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 select "Printers and Faxes".

2 Right-click the icon of the installed printer, and then click "Properties".

3 Click the General tab, and then click the [Print Test Page] button or the [Print Test] button.

The test page is printed and the confirmation dialog box appears.

4 Check the printout, and then click the [OK] button or the [Yes] button.

Note
If the test page is not printed properly, check that the printer driver has been installed properly and that the network settings are complete.

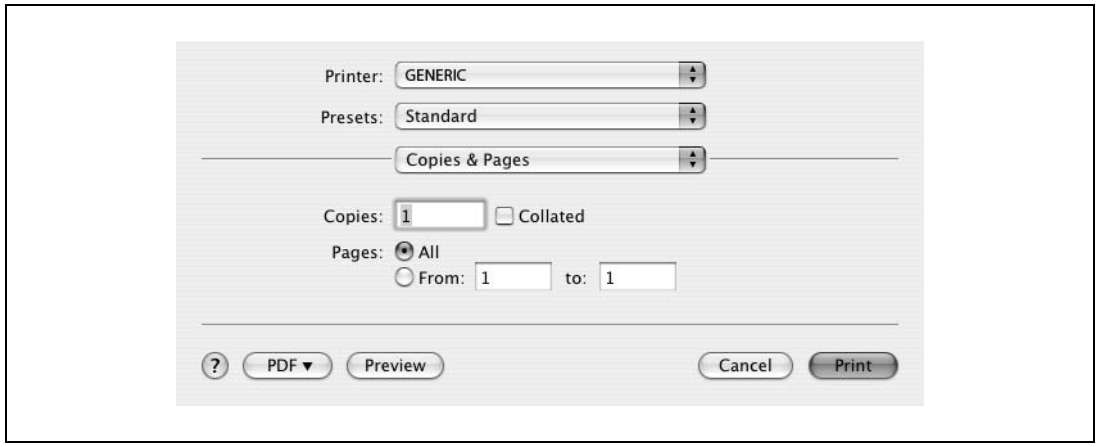
For Macintosh

Printing is possible when the printer driver is installed and the network settings have been specified. Print jobs are specified from the application software.

For Mac OS X

1 Open the data in the application, click [File], and then click "Print".

2 Check that the printer name has been selected.



3 Specify the print range and the number of copies to print, and then click the [Print] button.

– If the printer name does not appear in the list, select the printer in Print Center or Print Setup Utility. For details, refer to "Selecting a printer" on page 3-9.
– The Print dialog box differs depending on the application.

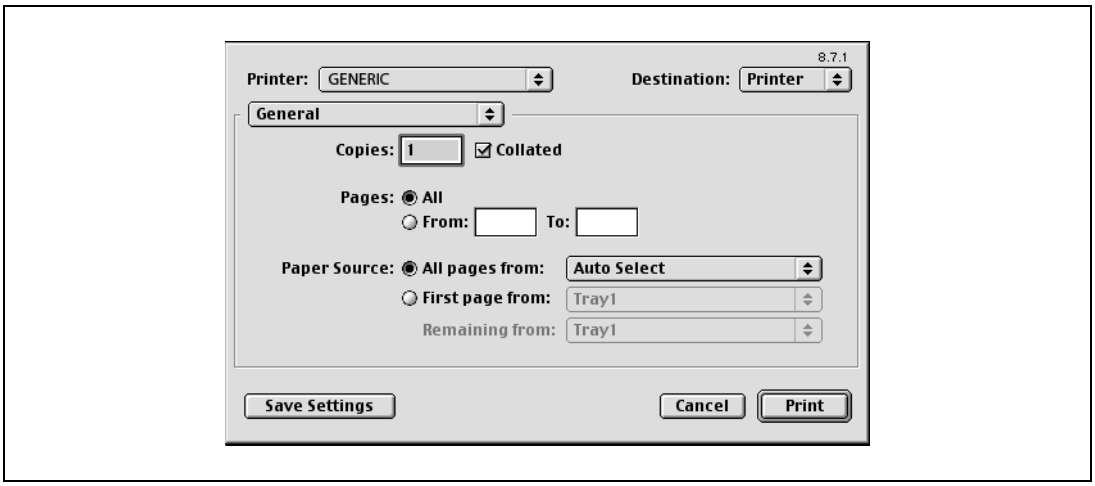
The Data indicator of this machine flashes.

For Mac OS 9.2

1 Open the data in the application, click [File], and then click "Print".

2 Check that the printer name has been selected.

3 Select "General".



4 Specify the print range and the number of copies to print, and then click the [Print] button.

The Data indicator of this machine flashes.

...

Note

If the printer name does not appear in the list, select the printer from the Chooser window. For details, refer to "Selecting a printer" on page 3-9.

The Print dialog box differs depending on the application.

The settings can be saved by clicking the [Save Settings] button.

5.2 Setting the printing functions

The functions of this machine such as sorting and folding can be set when printing from a computer. Depending on the operating system running on the connected computer, the setting procedure of this machine's functions may differ.

Function list

The function list contains a summary of the main settings related to printing and printer driver support.

Note

The function names in this list are based on those displayed by the PCL printer driver in Windows XP. In addition, the items and setting values displayed may differ depending on whether the options are installed or the settings are available.

Function	Overview	Printer driver			
		PCL	Post Script	Mac OS X	Mac OS 9
Original Orientation	Specifies the orientation of the original document.	○	○	○	○
Original Size	Specifies the size of the original document.	○	○	○	○
Paper Size	Specifies the output paper size.	○	○	○	
Zoom	Specifies the enlargement and reduction ratio.	○	○	○	○
Paper Tray	Selects the paper tray for printing.	○	○	○	○
Paper Type	Selects the paper type for printing.	○	○	○	○
Output Method (job management)	For non-conventional printing, selects special output methods such as "Secure Print" or "Save in User Box".	○	○	○	▲ (Proof Print only)
User Authentication	Specifies the user name and password for user authentication.	○	○	○	
Account Track	Specifies the department name and password for account track authentication.	○	○	○	
Copies	Specifies the number of copies to print.	○	○	○	○
Collate	Specifies whether to print multiple copies in sets.	○	○	○	○
Offset	When printing multiple copies, shifts the output position of each set.	○	○	○	○
Combination/Poster Mode	Specifies whether to print multiple pages of text on one page with N in 1 printing, or print one sheet of an original document divided on multiple pages with Poster Mode printing.	○	▲ (N in 1 printing only)	○	▲ (Poster Mode only)
Skip Blank Pages	Does not print blank pages in the data.	○			
Chapter	Specifies the page to be printed on the front side.	○	○	○	
Print Type	Specifies duplex printing and booklet printing.	○	○	○	○
Binding Direction	Specifies the binding position.	○	○	○	○
Binding Margin	Specifies the binding margin.	○	○		
Image Shift	Prints by shifting the entire print image.	○	○	○	
Staple	Specifies stapling.	○	○	○	○
Punch	Specifies hole punching.	○	○	○	○
Fold	Specifies folding.	○	○	○	○
Saddle Stitch	Specifies to saddle stitch a printed document.	○	○	○	○

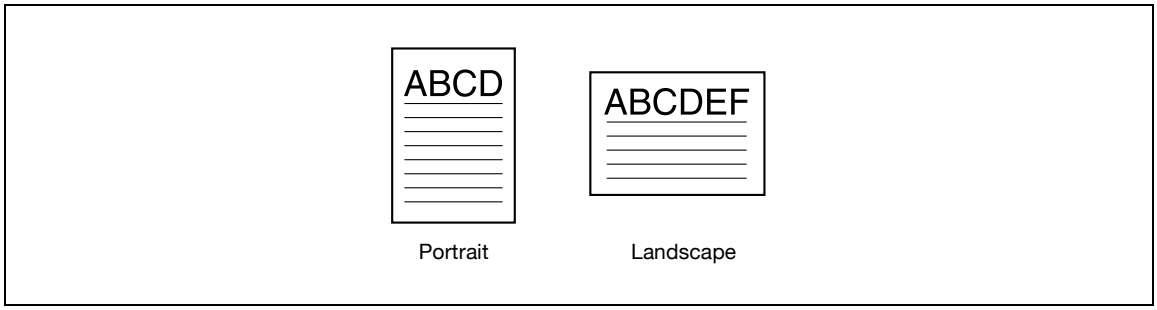
Function	Overview	Printer driver			
		PCL	Post Script	Mac OS X	Mac OS 9
Output Tray	Specifies the tray where to output the printed pages.	○	○	○	○
Paper Arrangement	Specifies the method for adjusting the binding position.	○	○	○	
Front Cover	Attaches a front cover page.	○	○	○	○
Back Cover	Attaches a back cover page.	○	○	○	○
Per Page Setting	Inserts paper between pages and switches the paper and tray for each page.	○	○	○	
Transparency Interleave	Outputs and inserts interleaves when printing overhead projector transparencies.	○	○	○	○
Watermark	Prints a watermark (text stamp) on the page being printed.	○	○		
Create Overlay File	Prints an original document on top of an overlay that was created separately.	○	○		
Copy Protect	Prints a special pattern to prevent copying.	○	○	○	
Date/Time	Prints the date and time.	○	○	○	
Page Number	Prints the page number.	○	○	○	
Select Color	Selects color printing and monochrome printing.	○	▲ (No two color selection)	▲ (No two color selection)	▲ (No two color selection)
Quality Adjustment	Adjusts the image quality.	○	○	○	○
Color Settings	Prints with a quality suitable for the selected original document.	○	○	○	○
Pattern	Specifies the graphic pattern details.	○			
Image Compression	Specifies the compression ratio for a graphic image.	○			
Glossy Mode	Prints using a gloss finish.	○	○	○	○
Use Printer Fonts	Specifies the replacement of TrueType fonts with printer fonts.	○	○		

Function overview

An overview of each function is summarized in this section.

Original orientation

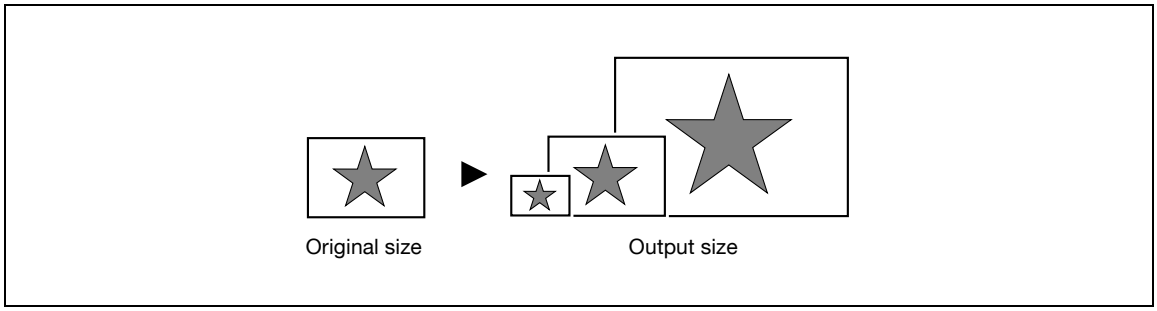
You can specify "Portrait" or "Landscape" as the orientation of the page being printed.



Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the basic tab settings" on page 6-7
	Generic PostScript	"Specifying the basic tab settings" on page 7-8
Mac OS X	PostScript PPD	"Page attributes (basic settings)" on page 9-7
Mac OS 9.2		"Page attributes (basic settings)" on page 8-6

Original size and paper size

You can specify the original document size and the output paper size. By specifying each size, you can specify the enlargement and reduction ratio.



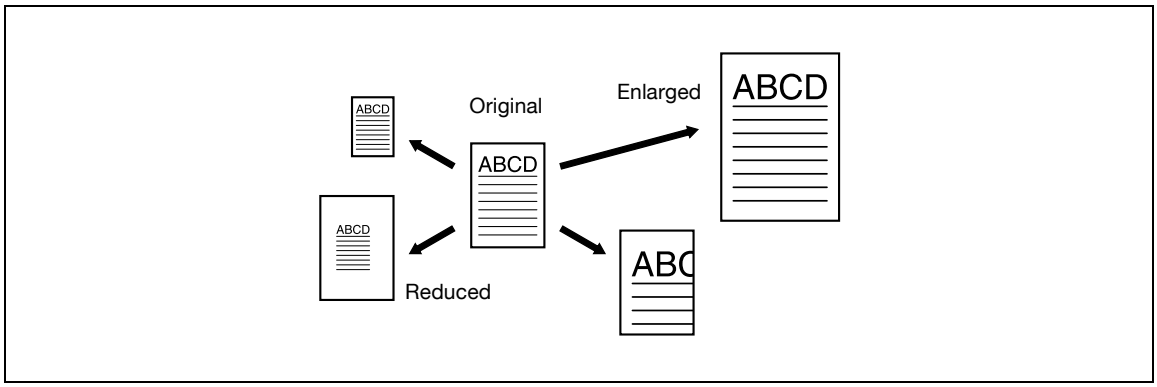
Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the basic tab settings" on page 6-7
	Generic PostScript	"Specifying the basic tab settings" on page 7-8
Mac OS X	PostScript PPD	"Page attributes (basic settings)" on page 9-7
Mac OS 9.2		"Page attributes (basic settings)" on page 8-6

Note

Only the output paper sizes can be specified with the PostScript PPD driver for the Macintosh.

Zoom (enlargement and reduction)

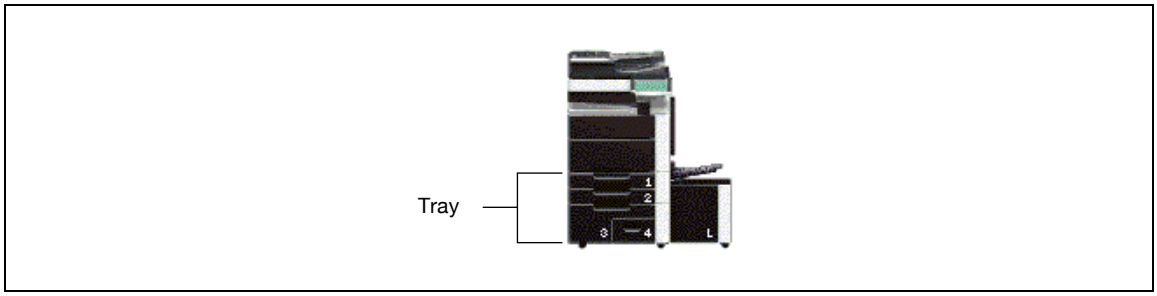
You can specify the enlargement or reduction ratio using numeric values.



Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the basic tab settings" on page 6-7
	Generic PostScript	"Specifying the basic tab settings" on page 7-8
Mac OS X	PostScript PPD	"Page attributes (basic settings)" on page 9-7
Mac OS 9.2		"Page attributes (basic settings)" on page 8-6

Paper tray (paper source)

You can select the paper tray for printing from the "Paper Tray" drop-down list. When changing the paper type, you can select a paper tray according to the desired paper type.



Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the basic tab settings" on page 6-7
	Generic PostScript	"Specifying the basic tab settings" on page 7-8
Mac OS X	PostScript PPD	"Paper tray/Output tray" on page 9-20
Mac OS 9.2		"General (basic settings)" on page 8-8

Paper type

You can specify the paper type to be printed.

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the basic tab settings" on page 6-7
	Generic PostScript	"Specifying the basic tab settings" on page 7-8
Mac OS X	PostScript PPD	"Paper tray/Output tray" on page 9-20

Output method (job management)

You can select output methods such as "Secure Print", which requires a password to print, or "Save in User Box", which saves documents in a document folder.

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the basic tab settings" on page 6-7
	Generic PostScript	"Specifying the basic tab settings" on page 7-8
Mac OS X	PostScript PPD	"Output method" on page 9-10
Mac OS 9.2		"Printer specific options (Finishing options 1 to 4)" on page 8-9

User authentication

When the authentication settings have been applied on this machine, you must enter the required user name and password.

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the basic tab settings" on page 6-7
	Generic PostScript	"Specifying the basic tab settings" on page 7-8
Mac OS X	PostScript PPD	"Output method" on page 9-10

Account track

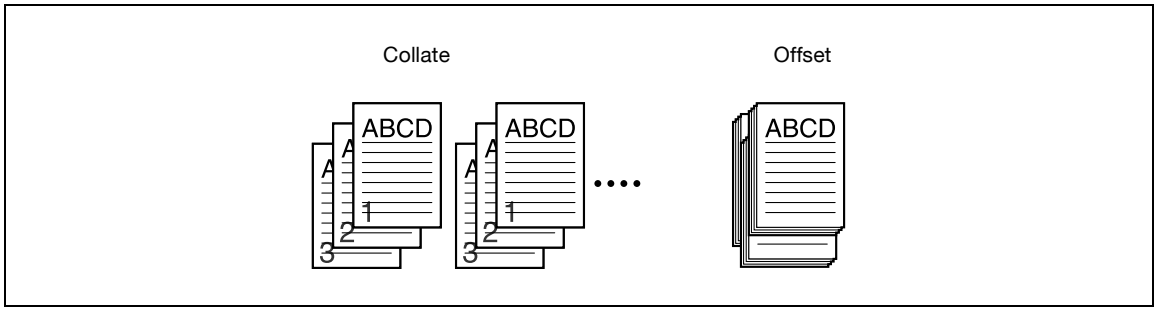
You can specify this setting when this machine is operating in Account Track.

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the basic tab settings" on page 6-7
	Generic PostScript	"Specifying the basic tab settings" on page 7-8
Mac OS X	PostScript PPD	"Output method" on page 9-10

Collate and offset

You can print the complete document sets the specified number of times or each page the specified number of times.

By specifying offset, the output position can be shifted and output to the front and back for each copy. (Multiple paper sources are used when a shifting finisher is installed and when no finisher is installed.)



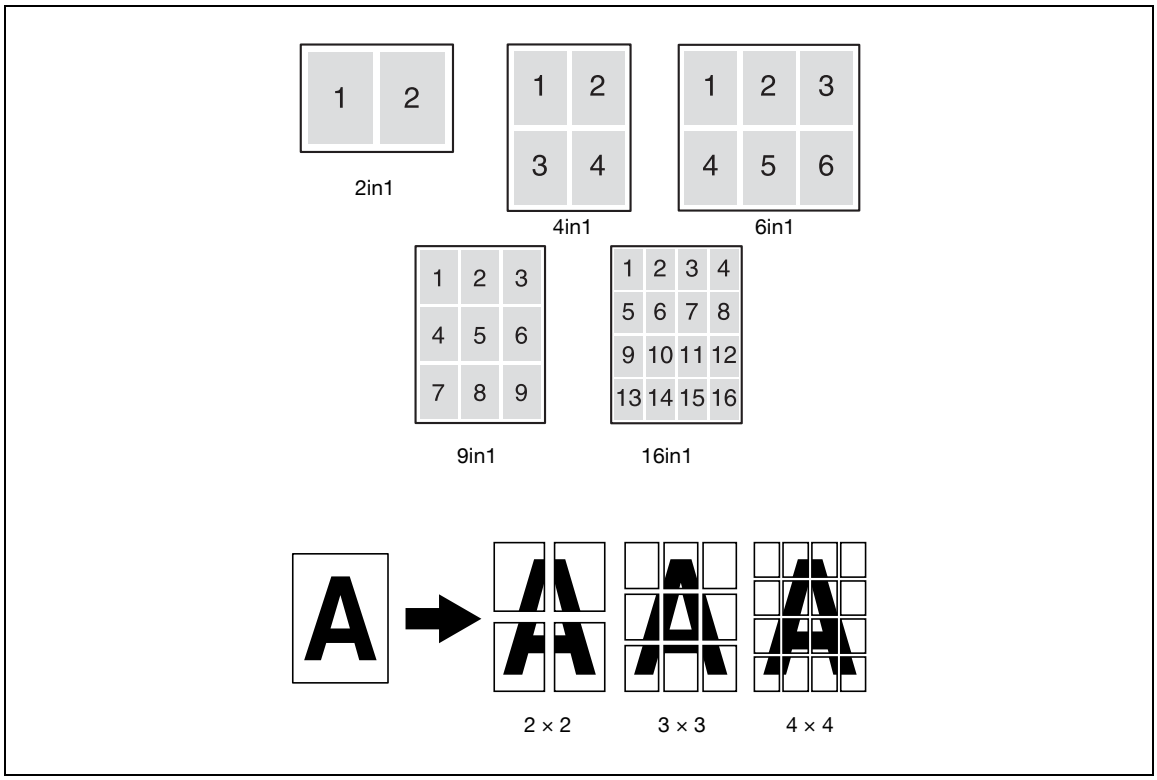
Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the basic tab settings" on page 6-7
	Generic PostScript	"Specifying the basic tab settings" on page 7-8
Mac OS X	PostScript PPD	"Output method" on page 9-10
Mac OS 9.2		"General (basic settings)" on page 8-8, and "Printer specific options (Finishing options 1 to 4)" on page 8-9

Combination/Poster mode

You can specify whether to print multiple pages of text on one page with N in 1 printing, or print one sheet of an original document divided on multiple pages with Poster Mode printing.

N in 1 printing comes in handy when you want to reduce the number of output pages.

Poster Mode printing allows you want to enlarge the print size when large paper sizes are not available (PCL printer driver and Mac OS X printer driver only).



Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the layout tab settings" on page 6-14
	Generic PostScript	"Specifying the layout tab settings" on page 7-15
Mac OS X	PostScript PPD	"Print dialog box" on page 9-4 "Layout/Finish" on page 9-16
Mac OS 9.2		"Layout (printing multiple pages on one page)" on page 8-9

Skip blank pages (saving paper)

You can specify not to print blank pages in the data.

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the layout tab settings" on page 6-14

Chapter

You can specify the page you want to print on the front side when duplex printing or booklet printing.

Even if a specified page comes up to be printed on the back side in duplex printing or booklet printing, the specified page is moved and printed on the front side.

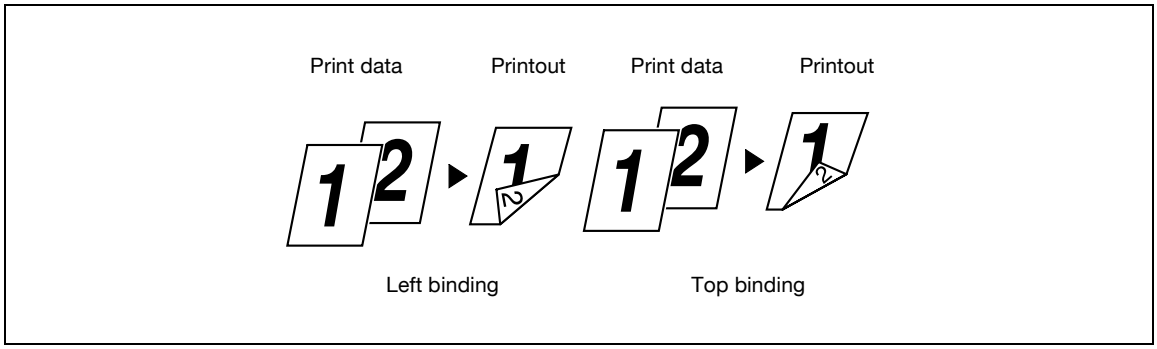
Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the layout tab settings" on page 6-14
	Generic PostScript	"Specifying the layout tab settings" on page 7-15
Mac OS X	PostScript PPD	"Layout/Finish" on page 9-16

Print type (duplex printing/booklet printing)

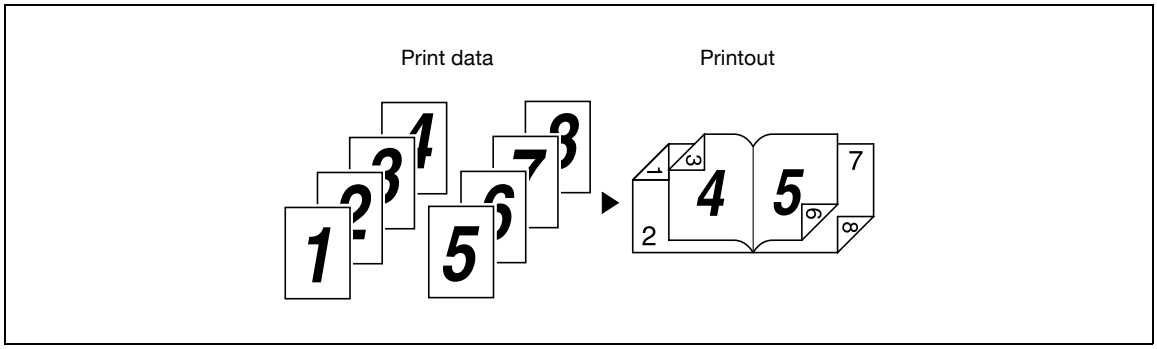
You can print onto both sides of a page or in a booklet format (two facing pages or center binding). This comes in handy when you want to bind multiple-page documents.

The binding area can be specified by specifying the binding position.

Duplex printing



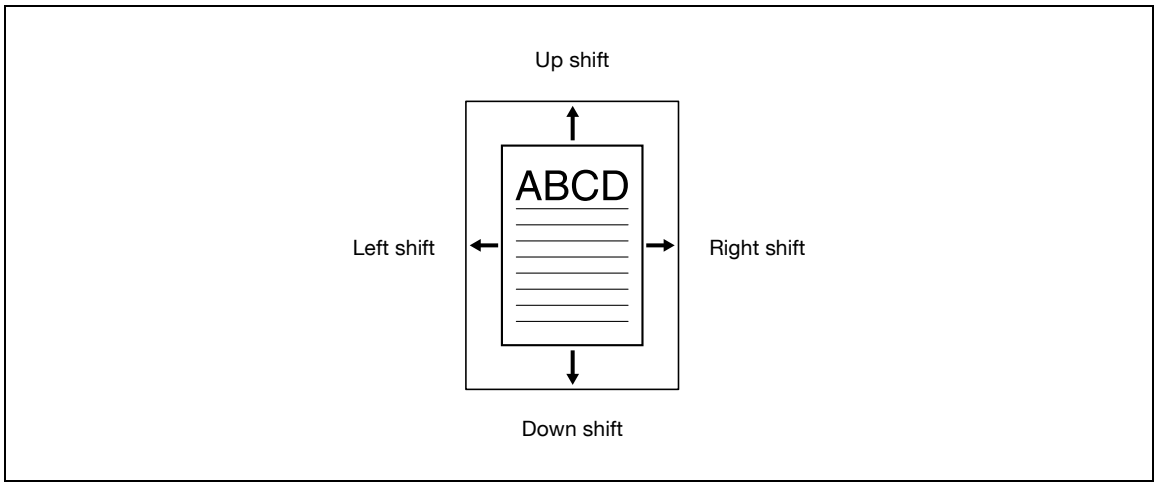
Booklet printing



Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the layout tab settings" on page 6-14
	Generic PostScript	"Specifying the layout tab settings" on page 7-15
Mac OS X	PostScript PPD	"Layout/Finish" on page 9-16
Mac OS 9.2		"Printer specific options (Finishing options 1 to 4)" on page 8-9

Image shift

You can specify whether to shift the entire print image according to the binding margins, then print. You can specify the shift direction and set the values for the print position. For duplex printing, the front side and back side of a page can be specified separately.

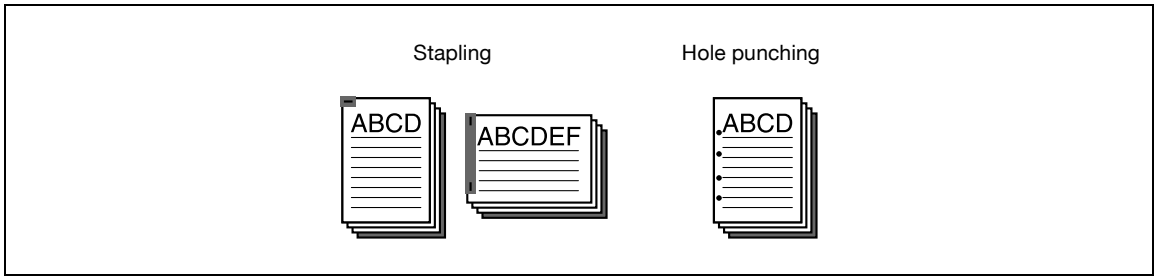


Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the layout tab settings" on page 6-14
	Generic PostScript	"Specifying the layout tab settings" on page 7-15
Mac OS X	PostScript PPD	"Layout/Finish" on page 9-16
Mac OS 9.2		"Printer specific options (Finishing options 1 to 4)" on page 8-9

Stapling and hole punching

Documents can be stapled together or holes can be punched into the document.

By specifying the binding margin, you can specify the margin for stapling or hole punching.



...

Reminder

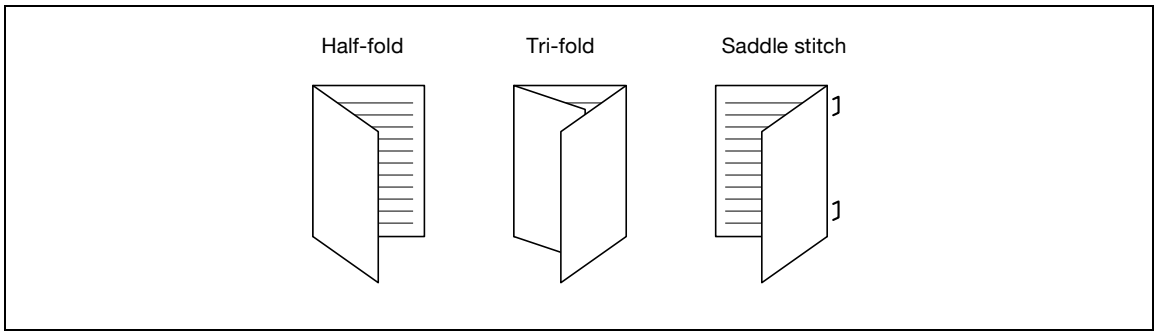
The staple function is available only when the optional finisher is installed.

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

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the finish tab settings" on page 6-17
	Generic PostScript	"Specifying the finish tab settings" on page 7-18
Mac OS X	PostScript PPD	"Layout/Finish" on page 9-16
Mac OS 9.2		"Printer specific options (Finishing options 1 to 4)" on page 8-9

Saddle stitch and fold

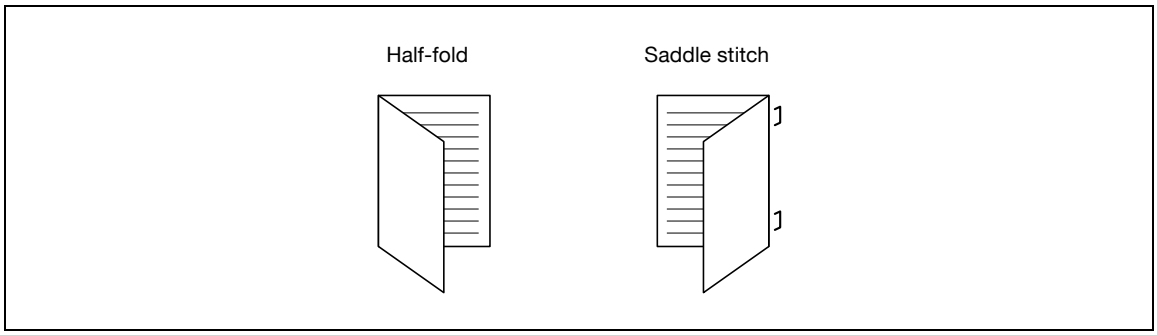
d-Color MF550:
You can specify whether to fold a printed document in half or in three, or to fold a printed document in half and to saddle stitch it with staples.



...

Reminder
The saddle stitch function and fold function are available only when optional finisher FS-608 is installed.

d-Color MF450:
You can specify whether to fold a printed document in half, or to fold a printed document in half and to saddle stitch it with staples.



...

Reminder
The saddle stitch function and fold function are available only when optional saddle stitcher is installed.

d-Color MF550/MF450:

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the finish tab settings" on page 6-17
	Generic PostScript	"Specifying the finish tab settings" on page 7-18
Mac OS X	PostScript PPD	"Layout/Finish" on page 9-16
Mac OS 9.2		"Printer specific options (Finishing options 1 to 4)" on page 8-9

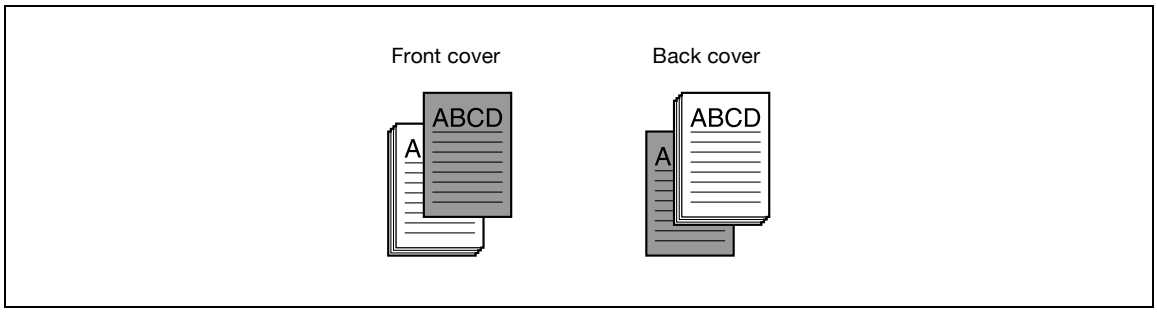
Paper arrangement

When printing a document with duplex printing, you can specify whether to adjust the binding position with "Prioritize Arranging Papers", which prints after all the print data is received, or with "Prioritize Productivity", which prints the data simultaneously as it is received.

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the finish tab settings" on page 6-17
	Generic PostScript	"Specifying the finish tab settings" on page 7-18
Mac OS X	PostScript PPD	"Layout/Finish" on page 9-16
Mac OS 9.2		"Printer specific options (Finishing options 1 to 4)" on page 8-9

Cover mode and transparency interleave

A front cover and back cover can be added and interleaves can be inserted between overhead projector transparencies.



Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the cover mode tab settings" on page 6-19
	Generic PostScript	"Specifying the cover mode tab settings" on page 7-20
Mac OS X	PostScript PPD	"Cover mode/Transparency interleave" on page 9-22
Mac OS 9.2		"Printer specific options (Finishing options 1 to 4)" on page 8-9

Per page setting

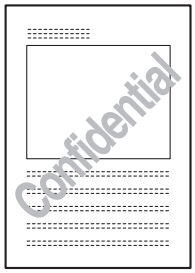
You can specify to have paper inserted between pages, and specify the simplex or duplex print type and the paper to be printed for each page.

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the cover mode tab settings" on page 6-19
	Generic PostScript	"Specifying the cover mode tab settings" on page 7-20
Mac OS X	PostScript PPD	"Per page setting" on page 9-23

Watermark

You can print a watermark (text stamp) on the page being printed.

Watermark

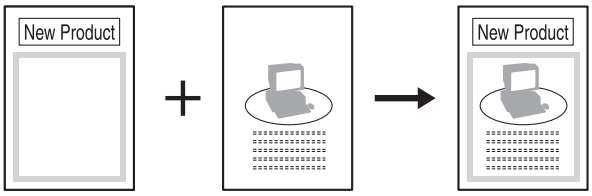


Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the stamp/composition tab settings" on page 6-21
	Generic PostScript	"Specifying the stamp/composition tab settings" on page 7-22

Overlay

You can print an original document on top of overlay data that was created separately.

Overlay



Form data Created data

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the stamp/composition tab settings" on page 6-21
	Generic PostScript	"Specifying the stamp/composition tab settings" on page 7-22

Copy protect

You can print a special pattern on an entire page while printing.

When the pattern on the printed page is copied, the characters embedded in the pattern appear to prevent an illegal copy.

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the stamp/composition tab settings" on page 6-21
	Generic PostScript	"Specifying the stamp/composition tab settings" on page 7-22
Mac OS X	PostScript PPD	"Stamp/Composition" on page 9-25

Date/Time and page number

You can print the date, time, or page numbers on a document.

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the stamp/composition tab settings" on page 6-21
	Generic PostScript	"Specifying the stamp/composition tab settings" on page 7-22
Mac OS X	PostScript PPD	"Stamp/Composition" on page 9-25

Quality adjustment

You can adjust the image quality.

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the quality tab settings" on page 6-29
	Generic PostScript	"Specifying the quality tab settings" on page 7-30
Mac OS X	PostScript PPD	"Quality" on page 9-30
Mac OS 9.2		"Printer specific options (Finishing options 1 to 4)" on page 8-9

Use printer fonts (substitute fonts)

You can specify whether to replace the TrueType fonts with printer fonts.

Operating system	Printer driver	Refer to
Windows	Generic PCL	"Specifying the quality tab settings" on page 6-29
	Generic PostScript	"Specifying the quality tab settings" on page 7-30
Mac OS 9.2	PostScript PPD	"PostScript options" on page 8-7

5.3 Specifying the printer driver basic 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) or use the function for saving settings.

For Windows

The functions of this machine that can be used when printing can be specified in the printer driver setup dialog box, which can be displayed from the Printers window (for Windows XP/Server 2003, Printers and Faxes window).

Settings specified in the printer driver setup dialog box displayed using the procedure described below will be applied when printing from any application.

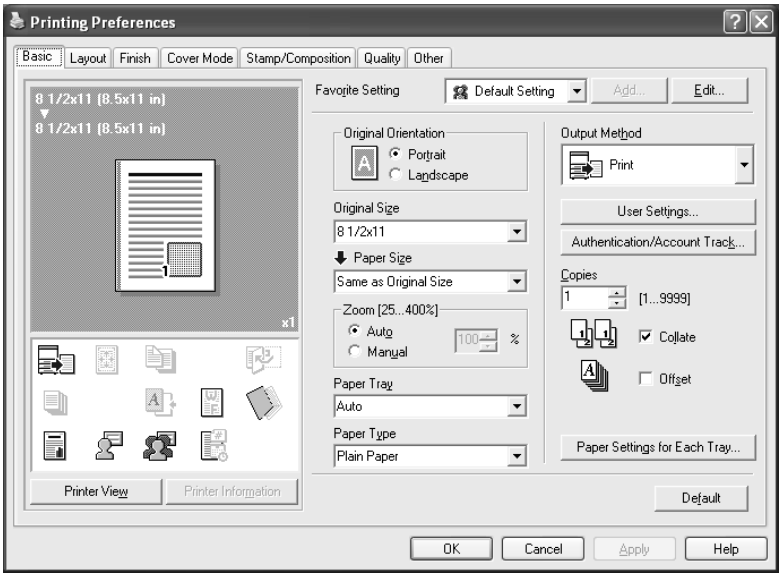
1 For Windows 2000/NT 4.0, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, click the [Start] button, and then click "Printers and Faxes".

– 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 select "Printers and Faxes".

2 For Windows 2000/XP/Server 2003, right-click the icon of the installed printer, and then click "Printing Preferences".
For Windows 4.0, right-click the icon of the installed printer, and then click "Document Defaults".

The following printer driver setting dialog box appears.

PCL driver



PostScript driver

...

Note

For the settings that can be specified with each printer driver, refer to the following:
Generic PCL Driver: "Setting up the PCL driver (Windows)" on page 6-3
Generic PostScript Driver: "Setting up the PostScript driver (Windows)" on page 7-3

Use each tab in the dialog box to set up the printer driver.

To specify custom settings, click Print in the application, and then click the [Properties] or the [Preferences] button in the Print dialog box. The settings specified in the Print dialog box apply only to the current file.

For the function for saving settings, refer to the follow:
Generic PCL Driver: "Saving the driver settings" on page 6-36
Generic PostScript Driver: "Saving the driver settings" on page 7-37

For Macintosh

The functions of this machine that can be used when printing can be specified in the Print dialog box or the Page Setup dialog box.

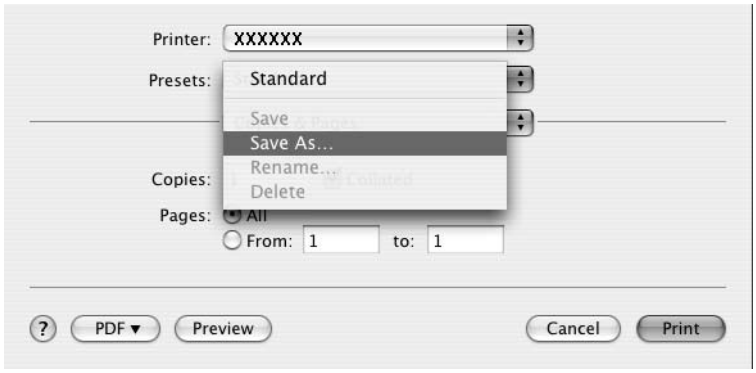
The settings can only be applied while using the application. When the application is quit, the settings return to their default settings.

To specify the settings, save the settings in the printer driver dialog box.

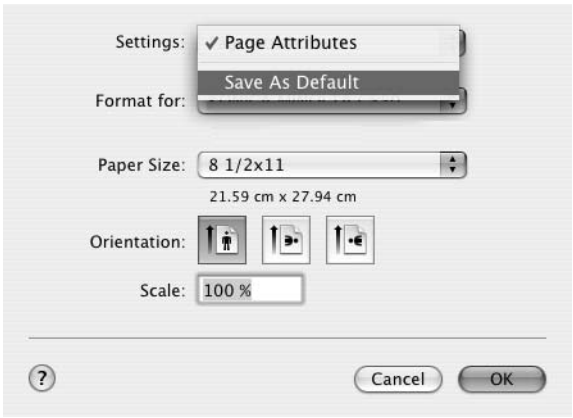
For Mac OS X

In the Print dialog box, save the settings from the "Presets" function.

For saving the settings, refer to "Saving the driver settings" on page 9-32.



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

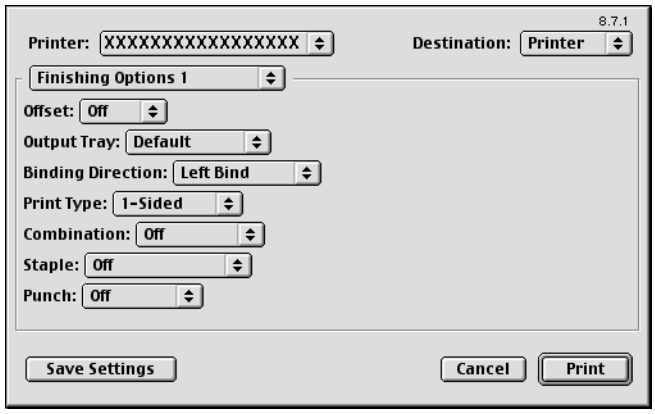


Note

For details on the settings that can be specified in the printer driver, refer to "Setting up the PPD driver (Mac OS X)" on page 9-3.

For Mac OS 9.x

In the Print dialog box, save the settings by clicking the [Save Settings] button.



...

Note

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

"General" cannot be saved from the Print dialog box.

For details on the settings that can be specified in the printer driver, refer to "Setting up the PPD driver (Mac OS 9.2)" on page 8-3.

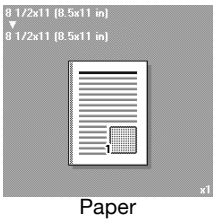
6 Setting up the PCL driver (Windows)

6 Setting up the PCL driver (Windows)

6.1 Settings

Common settings

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

Button	Function
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 settings to their defaults, which were selected when the driver was installed.
View	When the [Paper View] button is clicked, a preview of the page layout as specified in the current settings is displayed and a preview image of the print job can be checked. When the [Printer View] button is clicked, a printer figure is displayed showing any options, such as the paper tray, that are installed on this machine.  Paper Printer

Note

To enable any installed options, you must specify the Device Option settings. For details, refer to "Specifying the configure tab settings" on page 6-32.

Basic tab

Item	Function
Original Orientation	Specifies the orientation of the original document.
Original Size	Specifies the size of the original document.
Paper Size	Specifies the output paper size. Automatically enlarges or reduces when the Original Size setting is changed.
Zoom	Specifies the enlargement and reduction ratio.
Paper Tray	Selects the paper tray for printing.
Paper Type	Selects the paper type for printing.
Output Method	For non-conventional printing, selects special output methods such as "Secure Print" or "Save in User Box".
[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	Specifies the number of copies to print.
Collate	Specifies whether to print multiple copies in sets.
Offset	When printing multiple copies, shifts the output position of each set.
Paper Settings for Each Tray	Specifies the paper type for each paper tray.

Layout tab

Item	Function
Combination	Prints multiple pages on one page, or prints one sheet of an original document divided on multiple pages. Details can be specified by clicking the [Combination Details] button.
Rotate 180	Prints the image rotated 180°.
Skip Blank Pages	Does not print blank pages in the data.
Chapter	Specifies the page to be printed on the front side.
Print Type	Specifies duplex printing and booklet printing.
Binding Direction	Specifies the binding position.
Binding Margin	Specifies the binding margin. Click the [Binding Margin Settings] button to specify the margin values.
Image Shift	Prints by shifting the entire print image. Click the [Image Shift Settings] button to specify the image shift values.

Finish tab

Item	Function
Staple	Specifies stapling.
Saddle Stitch	Specifies to saddle stitch a printed document.
Punch	Specifies hole punching.
Fold	Specifies folding.
Output Tray	Specifies the tray where to output the printed pages.
Paper Arrangement	Specifies the method for adjusting the binding position.

Cover mode tab

Item	Function
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.
Per Page Setting	Inserts paper between pages and switches the paper and tray for each page.
Transparency Interleave	Outputs and inserts interleaves when printing overhead projector transparencies.
Interleave Tray	Selects the input tray for the transparency interleaves.

Stamp/Composition tab

Item	Function
Watermark	Prints a watermark (text stamp) on the page being printed. Watermarks can be added, changed, or deleted by clicking the [Edit] button.
Create Overlay File	Prints an original document on top of an overlay that was created separately.
Copy Protect	Prints a special pattern to prevent copying.
Date/Time	Prints the date and time.
Page Number	Prints the page number.

Quality tab

Item		Function
Select Color		Specifies the color for 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 document.
Color Settings		Prints with a quality suitable for the selected original document.
Pattern		Specifies the graphic pattern details.
Image Compression		Specifies the compression ratio for a graphic image.
Glossy Mode		Prints with a gloss.
Font Set-tings	Download Font Format	Selects whether the fonts are downloaded to the printer as bitmap or outline.
	Use Printer Fonts	Selects whether to use TrueType fonts or the printer fonts when printing.

Other tab (d-Color MF450)

Item	Function
Excel Job Control	Controls jobs so that they are not separated when printing in Microsoft Excel.
Remove White Back-ground	Removes the white background when creating an overlay file with Microsoft PowerPoint. If this check box is cleared, the background is not removed and the overlay file is created according to the orig-inal document data.
Driver Version Info	Displays the version information of the printer driver.

Configure tab

Item	Function
Device Option	Specifies the status of the 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" drop-down list.
Paper Tray Information	Shows 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 status of the connection that executes getting the option information.
Software Tools	Starts up software tools such as Web Connection.

Note

To display the Configure tab in Windows 2000/XP/NT 4.0/Server 2003, right-click the icon of the installed printer, and then click "Properties".

You cannot use the "Acquire Device Information" function if you are not connected to or able to communicate with this machine.

Settings tab

Item	Function
d-Color MF450: EMF Spool	When using an original system environment, select this check box if a metafile (EMF) spool is required.
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 the user name and department name.
Save Custom Size	Saves the custom paper sizes.

Note

To display the Settings tab in Windows 2000/XP/NT 4.0/Server 2003, right-click the icon of the installed printer, and then click "Properties".

6.2 Specifying the basic tab settings

Printing to suit the paper size

You can enlarge or reduce documents created when printing to match the output paper size.

1 Click the Basic tab.

2 From the "Original Size" and "Paper Size" drop-down lists, select the desired settings.

– You can also specify any enlargement or reduction ratio in the "Zoom" box.

Note

To print on paper sizes other than the standard sizes, be sure to set the custom paper sizes in Custom Size Settings first.
When "W" is selected for each standard paper size from the printer driver, the data can be centered and printed.
For example, if A4 size data is created and you want to center and print on A3 size paper, select "A4W" as the paper size and "Tray 1" or "Bypass Tray" as the paper tray from the printer driver.
To print, load A3 size paper in the tray ("Tray 1" or "Bypass Tray") of this machine that was specified from the printer driver, and then specify the settings described below from [Basic (Paper)] – [Change Tray Settings] – [Wide Paper] in the control panel.
Select "A4W".
Enter the A3 paper size (420.0 × 297.0) in [Change Size].

Specifying a custom size

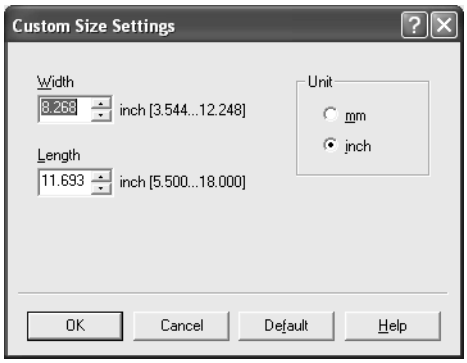
When printing on paper of a custom size, you can select a preregistered custom paper size or specify a paper size value as described below.

1 From the "Original Size" or the "Paper Size" drop-down list, select "Custom Size".

The Custom Size Settings dialog box appears.

2 Specify settings for the following:

- Width: Specifies the width of the custom paper size according to the selected measurement unit.
- Length: Specifies the length of the custom paper size accordi
- ng to the selected measurement unit.
- Unit: Selects the measurement unit that specifies the size.



3 Click the [OK] button.

Note

For custom sizes that are used often, it comes in handy if you add them to the paper size list. Add a custom paper size from the Settings tab. For details, refer to "Specifying the settings tab settings" on page 6-34.

d-Color MF450: If using banner paper, specify the size of the banner paper in Custom Size. For details, refer to "Printing on banner paper (d-Color MF450)" on page 11-50.

Selecting the paper tray

You can specify the paper you want to use for printing by selecting the paper tray that contains the loaded paper.

1 Click the Basic tab.

2 From the "Paper Tray" drop-down list, select the desired paper tray.

Note

If "Auto" is specified as the paper tray, you can select the paper type. If the paper tray setting is changed to a setting other than "Auto", the paper type is fixed to its preregistered setting. Specify a paper type by clicking the [Paper Settings for Each Tray] button. For details, refer to "Specifying the paper type for a paper tray" on page 6-9.

Specifying the paper type for a paper tray

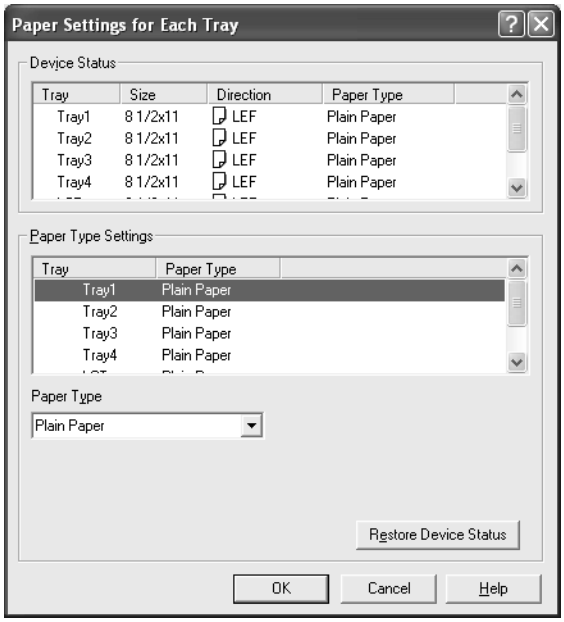
You can specify the paper type for a paper tray.

1 Click the Basic tab.

2 Click the [Paper Settings for Each Tray] button.

The Paper Settings for Each Tray dialog box appears.

3 From "Paper Type Settings", select the desired paper tray, and then select the paper type to be specified from the "Paper Type" drop-down list.



4 Click the [OK] button.

...

Note

The current specified settings can be checked in "Device Status".

Click the [Restore Device Status] button to communicate with this machine and read the status of the settings specified on this machine. You cannot use this function if you are not connected to or able to communicate with this machine.

The paper type for a paper tray can also be specified from the Configure tab, and the paper size and paper orientation can be specified as well. For details, refer to "Specifying the configure tab settings" on page 6-32.

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

Selecting the output method

Not only can you print directly, but you can select "Secure Print", which requires a password to print, or "Save in User Box", which saves data in the boxes that were created on the HDD.

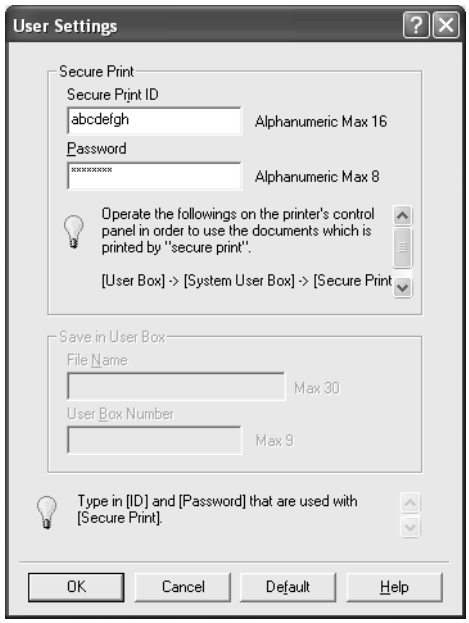
1 Click the Basic tab.

2 From the "Output Method" drop-down list, select the output method.

- Print: Prints immediately.
- Secure Print: Saves the document to be printed in "Secure Print User Box" of this machine. When printing, you are required to enter the ID and password in this machine's control panel. Select when printing highly confidential documents.
- Save in User Box: Saves the document to be printed in a 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 a part of the document has been printed, this machine stops printing temporarily. Select to avoid misprinting a large volume of print jobs.

Secure Print

If "Secure Print" was selected, enter the ID and password in the dialog box that appeared.



Note

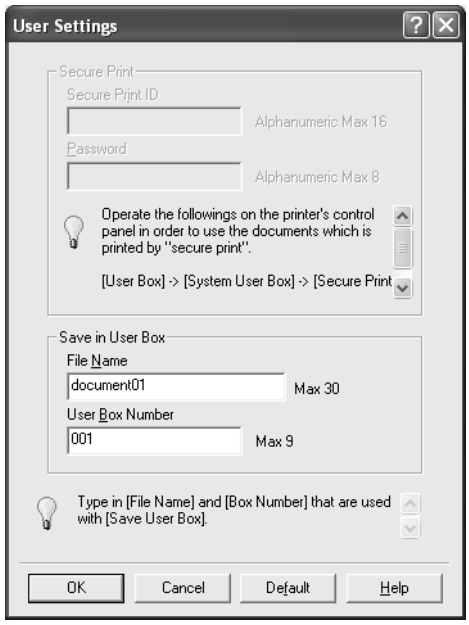
The ID and password that are required for "Secure Print" can be preregistered by clicking the [User Settings] button under "Output Method". If the ID and password are already registered, the dialog box to enter the ID and password does not appear when "Secure Print" is selected.

To print, specify "Secure Print Document Box" from the Box mode in this machine's control panel, and then enter the ID and password. For details, refer to "Print job management" on page 11-36. For details on the box functions of this machine, refer to the User manual – Box Operations.

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

Save in User Box

When "Save in User Box" or "Save in User Box and Print" is selected, specify the file name to be saved and the box number for the save location in the dialog box that appears for entering the file name and box number.



Note

The file name and box number that are required for "Save in User Box" can be preregistered by clicking the [User Settings] button under "Output Method". If the file name and box number are already registered, the dialog box to enter the file name and box number does not appear when "Save in User Box" is selected.

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

When password rules are enabled on this machine, specify the box that was created on this machine.

Proof Print

When a print job is sent, this machine stops printing temporarily after part of the document has been printed. The remaining print job is stored in this machine as a print job. When printing multiple copies, you can print the remaining part of the print job after checking the print results.

Note

To print the document, release the held document from the Job mode in this machine's control panel. For details, refer to "Print job management" on page 11-36.

Specifying the user authentication settings

If the user authentication settings have been specified on this machine, you must enter a user name and password.

Note

If a job is printed using a user name or password that is not a registered account on this machine, or if a job is printed without selecting a user under "User Authentication", the operation is not authenticated by this machine and the job is canceled.

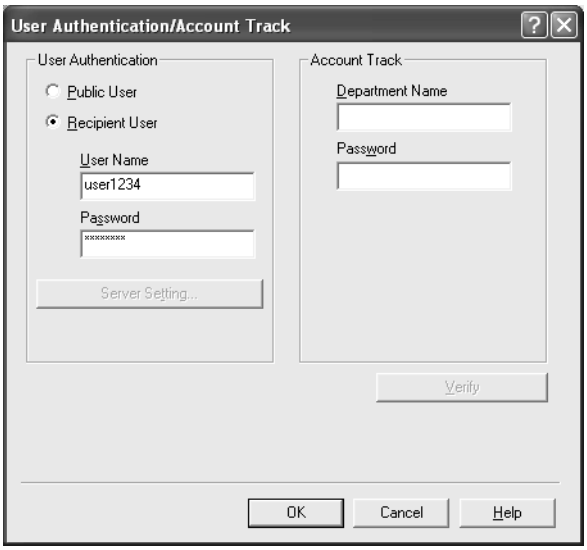
If the user authentication settings are specified on this machine and the authentication operation restriction function is in mode 2, the applicable user is locked and cannot be accessed if the authentication information is not entered correctly.

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 "Specifying the configure tab settings" on page 6-32.

1 Click the Basic tab.

2 Click the [Authentication/Account Track] button.

3 Select "Recipient User", and then enter the user name and password.



4 Click the [OK] button.

Note

If this machine has been set to permit public users, the machine can be used without a user name and password.

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

Click the [Verify] button to communicate with this machine and to check whether authentication can be performed with the user that was entered. You cannot use this function if you are not connected to or able to communicate with this machine.

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

If performing user authentication with an optional authentication unit (biometric type), enter the user name and password in step 3. For details, refer to the operation manual of the authentication unit (biometric type).

Specifying the account track settings

If the account track settings have been specified on this machine, you must enter a department name and password.

Note

If a job is printed using a department name or password that is not a registered account on this machine, or if a job is printed without "Account Track" selected, the operation is not authenticated by this machine and the job is canceled.

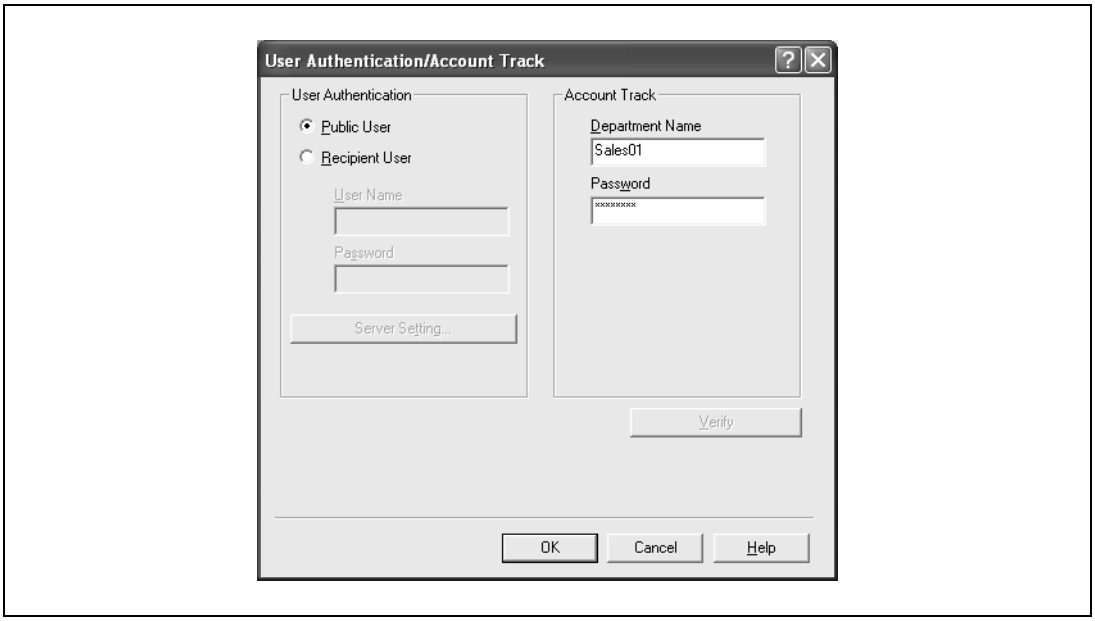
When the account track settings are specified on this machine, the authentication operation restriction function is in mode 2, and the authentication information is not entered correctly, the applicable account is locked and cannot be accessed.

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 "Specifying the configure tab settings" on page 6-32.

1 Click the Basic tab.

2 Click the [Authentication/Account Track] button.

3 Enter the department name and password.



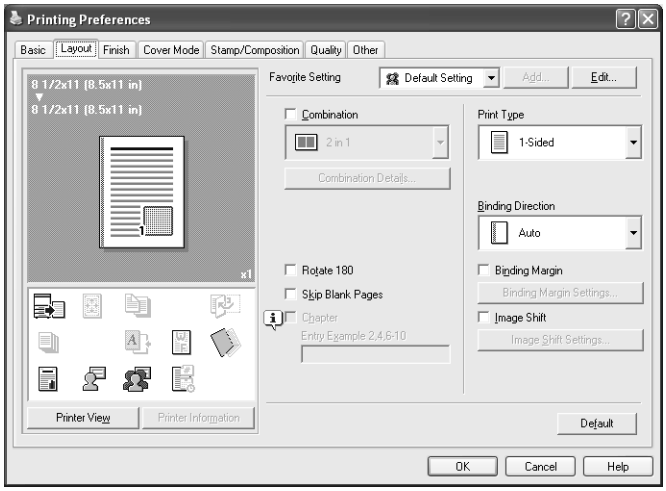
4 Click the [OK] button.

Note

Click the [Verify] button to communicate with this machine and to check whether authentication can be performed with the user that was entered. You cannot use this function if you are not connected to or able to communicate with this machine.

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

6.3 Specifying the layout tab settings



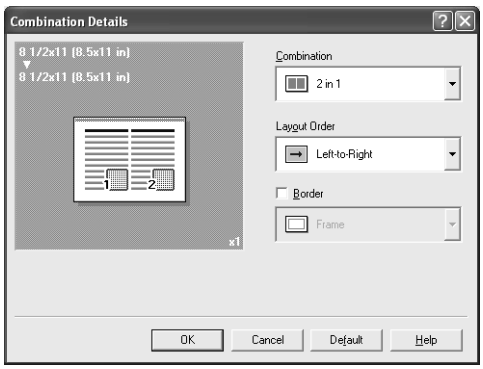
Printing multiple pages on one page (N in 1, poster mode)

You can specify whether to print multiple pages of text on one page with N in 1 printing, or print one sheet of an original document divided on multiple pages with Poster Mode printing.

1 Click the Layout tab.

2 Select the "Combination" check box, and then specify the setting from the drop-down list.

– To change the "Border" and "Overlap width line" settings, click the [Combination Details] button, and then change the settings in the dialog box that appears.



...

Reminder

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

Chapter

You can specify the page you want to print on the front side when duplex printing or booklet printing.

Even if a specified page comes up to be printed on the back side in duplex printing or booklet printing, the specified page is moved and printed on the front side.

1 Click the Layout tab.

2 Select the "Chapter" check box.

3 Enter the page number of the page you want to print on the front side.

...

Note

When entering multiple page numbers, separate the page numbers with commas such as "2, 4, 6" or enter a page range using a hyphen such as "6-10".

The "Chapter" check box can only be selected when the duplex printing or the booklet printing setting is enabled.

Specifying duplex/booklet printing

You can print a document onto both sides of a page or in a booklet format (two facing pages). This comes in handy when you want to bind multiple-page documents.

1 Click the Layout tab.

2 From the "Print Type" drop-down list, select "2-Sided" or "Booklet".

...

Note

The binding position can be specified from the "Binding Direction" drop-down list.

Setting the binding margin

Binding margins are added to the document before it is printed.

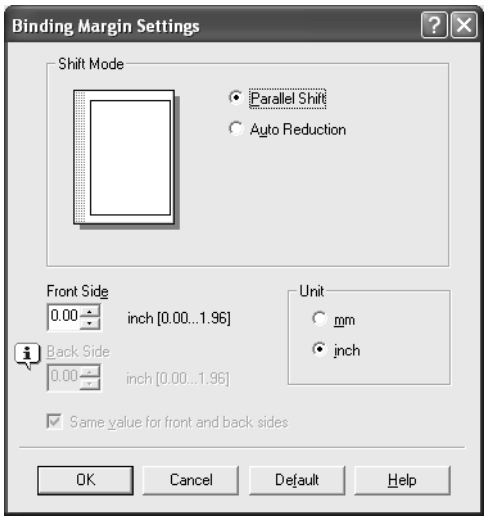
1 Click the Layout tab.

2 From the "Binding Direction" drop-down list, select the binding position.

3 Select the "Binding Margin" check box.

4 To set the width of the binding margin, click the [Binding Margin Settings] button, and then specify the desired settings in the Binding Margin Settings dialog box that appears.

- Shift Mode: To add a binding margin, select how the image is to be shifted.
- Front Side/Back Side: Sets the binding margin values. By clearing the "Same value for front and back sides" check box, you can specify separate values for the front and back sides.
- Unit: Selects the measurement unit that specifies the size.



Shifting images

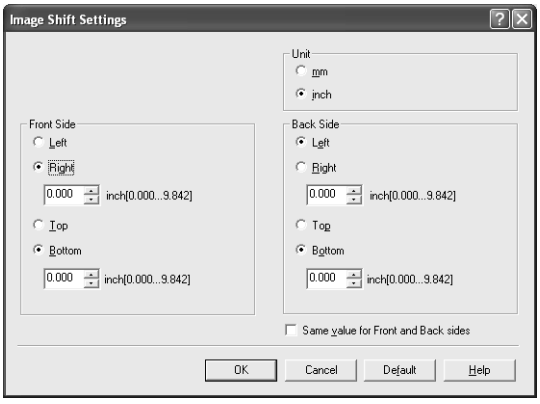
The entire print image of a document is shifted and then printed. You can use this function when you want to adjust the print position.

1 Click the Layout tab.

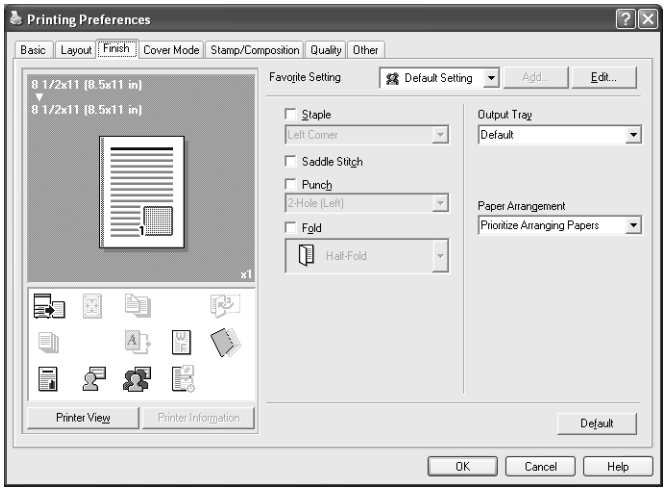
2 Select the "Image Shift" check box.

3 To set the image shift settings, click the [Image Shift Settings] button, and then specify the desired settings in the Image Shift Settings dialog box that appears.

- Unit: Selects the measurement unit that specifies the size.
- Front Side/Back Side: Specifies the shift direction and sets the values. By clearing the "Same value for Front and Back sides" check box, you can set separate values for the front and back sides.



6.4 Specifying the finish tab settings



Stapling

Multiple-page documents can be stapled.

Reminder
The staple function is available only when the optional finisher is installed.

1 Click the Finish tab.

2 Select the "Staple" check box.

3 From the drop-down list, specify the number of staples and the stapling position.

Note
d-Color MF550: Specify the staple position noting the binding position specified in "Binding Direction".

d-Color MF450: The saddle stitch function is available only when optional saddle stitcher is installed.

Specifying the saddle stitch setting

You can specify to saddle stitch a printed document. By specifying the saddle stitch setting, printed documents can be folded in half and stapled.

Reminder
d-Color MF550: The saddle stitch function is available only when optional finisher FS-608 is installed.
d-Color MF450: The saddle stitch function is available only when optional saddle stitcher is installed.

1 Click the Finish tab.

2 Select the "Saddle Stitch" check box.

Note
The saddle stitch function cannot be specified when the staple, punch, or fold function is specified.

Hole punching

Holes can be punched into the printed document.

Reminder
The hole punch function is available only when the punch kit is installed on the optional finisher.

1 Click the Finish tab.

2 Select the "Punch" check box.

3 From the drop-down list, specify the number of punched holes.

Note
The hole-punch position changes according to the binding position specified from "Binding Direction".

Folding

You can specify to fold a printed document.

Reminder
d-Color MF550: The fold function is available only when optional finisher FS-608 is installed.

d-Color MF450: The fold function is available only when optional saddle stitcher is installed.

1 Click the Finish tab.

2 Select the "Fold" check box.

3 From the drop-down list, specify the folding condition.

Note
The fold function cannot be specified when the staple, punch, or saddle stitch function is specified.

Specifying the output tray

You can specify the tray to which the printed document is output.

1 Click the Finish tab.

2 From the "Output Tray" drop-down list, specify the output tray.

Specifying the procedure for adjusting the binding position

You can specify the procedure for adjusting the binding position for duplex printing.

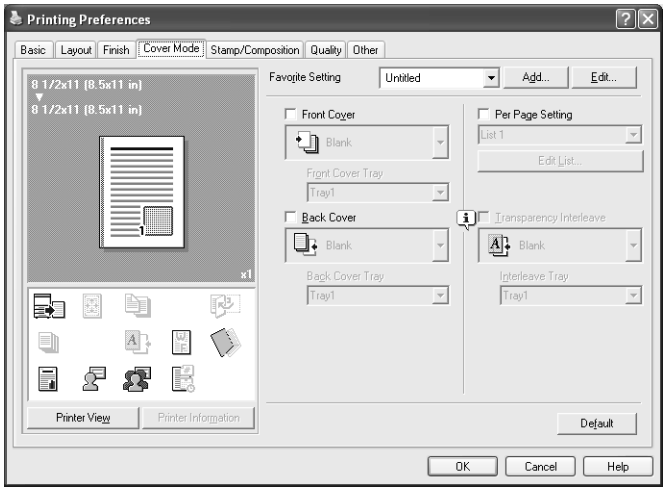
If "Prioritize Arranging Papers" is selected, all pages can be processed to a suitable quality by this machine because the binding position is adjusted after all the print data is received. If "Prioritize Productivity" is selected, the printing process is performed efficiently because the binding position is adjusted while the data is printed simultaneously as it is being received.

If you want to increase the print efficiency, select "Prioritize Productivity". If the desired binding position and width cannot be achieved, select "Prioritize Arranging Papers".

1 Click the Finish tab.

2 From the "Paper Arrangement" drop-down list, specify the processing method.

6.5 Specifying the cover mode tab settings



Printing documents with a front cover/back cover

1 Click the Cover Mode tab.

2 Select the "Front Cover" and "Back Cover" check boxes.

3 From the "Front Cover" and "Back Cover" drop-down lists, select the desired print settings.
To print on the front cover and back cover, select "Print". To only add a blank page, select "Blank".

4 Select the paper tray that contains the loaded paper for the front cover and back cover.

Printing multiple pages

You can specify the print type and paper tray for each page. This comes in handy when you want to change the paper tray during a print job when printing multiple pages.

1 Click the Cover Mode tab.

2 Select the "Per Page Setting" check box.

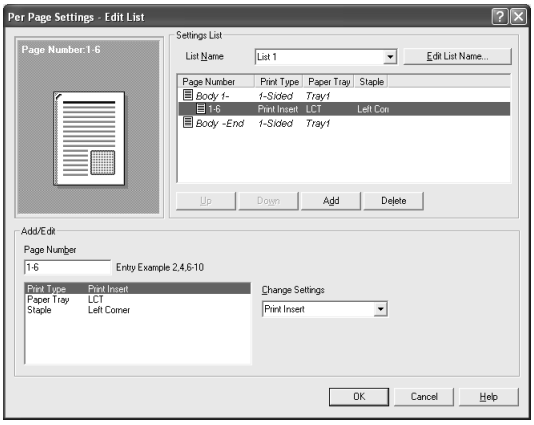
3 From the "Per Page Setting" drop-down list, select the desired list name.

4 Click the [Edit List] button.

The Per Page Settings – Edit List dialog box for specifying the print settings appears.

5 Click the [Add] button.

A new row for specifying the print settings is added to "Settings List".



6 Select the row that was added to the list, and then specify the print settings in "Add/Edit".

- Page Number: Enters the page number. When entering multiple page numbers, separate the page numbers with commas such as "2, 4, 6" or enter a page range using a hyphen such as "6-10".
- Print Type: Specifies Print Insert, Insert Blank Sheet, Print (1-Sided), and Print (2-Sided).
- Paper Tray: Specifies the paper tray.
- Staple: Specifies the number of staples and the stapling position.

7 Click the [OK] button.

...

Note

To change existing print settings, select the desired row and change the settings. To delete existing print settings, select the desired row, and then click the [Delete] button.

Click the [Up] or the [Down] button to change the page number starting with the smallest page number.

The list name can be changed by clicking the [Edit List Name] button.

Printing with transparency interleaves

If "Transparency" is selected as the paper type, you can select the "Transparency Interleave" check box to enable the transparency interleave setting. By selecting the "Transparency Interleave" check box, overhead projector transparencies can be inserted between the printed pages.

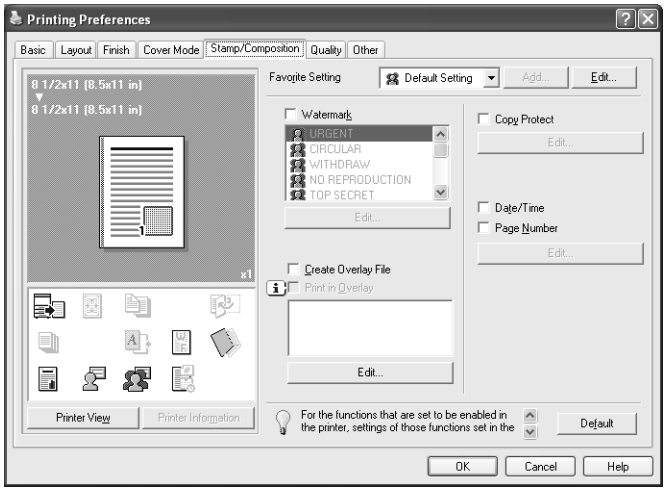
1 Click the Cover Mode tab.

2 Select the "Transparency Interleave" check box.

3 From the "Transparency Interleave" drop-down list, specify the printing conditions.

4 From the "Transparency Interleave" drop-down list, select the paper tray that contains the paper to be used.

6.6 Specifying the stamp/composition tab settings



Printing a watermark

You can print specific text in the background as a watermark.

1 Click the Stamp/Composition tab.

2 Select the "Watermark" check box.

3 From the list, select the watermark that you want to print.

Editing a watermark

You can change the fonts and position of the watermark and you can register a new one.

1 Click the Stamp/Composition tab.

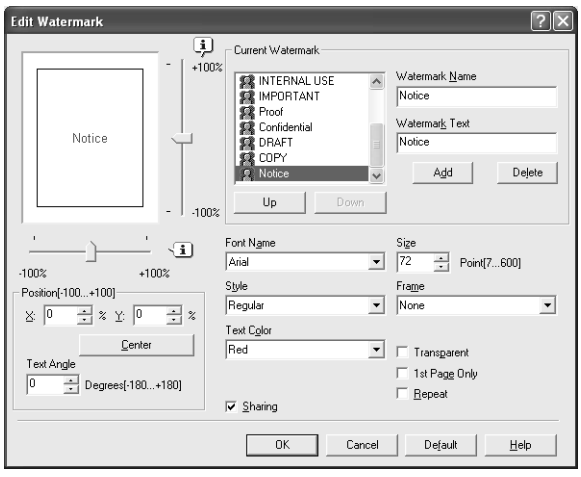
2 Select the "Watermark" check box.

3 Click the [Edit] button under "Watermark".

The Edit Watermark dialog box appears.

4 To create a watermark, click the [Add] button.
To change a watermark, select the watermark from the "Current Watermark" list.

5 Specify settings for the following:



- Watermark Name: Enters the name of the watermark.
- Watermark Text: Enters the text to be printed as a 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.
- Text 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.
- Sharing: Specifies whether to register the watermark as public or private.
- Transparent: Prints the watermark as a transparent image.
- 1st Page Only: Prints the watermark on the first page only.
- Repeat: Prints several watermarks on a single page.

6 Click the [OK] button.

Note

Up to 30 watermarks can be registered with the shared setting, and up to 20 watermarks can be registered with the private setting.

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

Printing different original documents together (overlay)

An original document can be printed on top of the overlay data that was created separately. This function comes in handy when creating fax cover letters or form letters.

Note

You must create and preregister the overlay file to be printed. For details, refer to "Editing an overlay file" on page 6-23.

1 Create the print data using any application.

2 From the [File] menu, select "Print".

3 Select this machine in "Printer Name", and then click the [Properties] button or the [Preferences] button.

4 Click the Stamp/Composition tab.

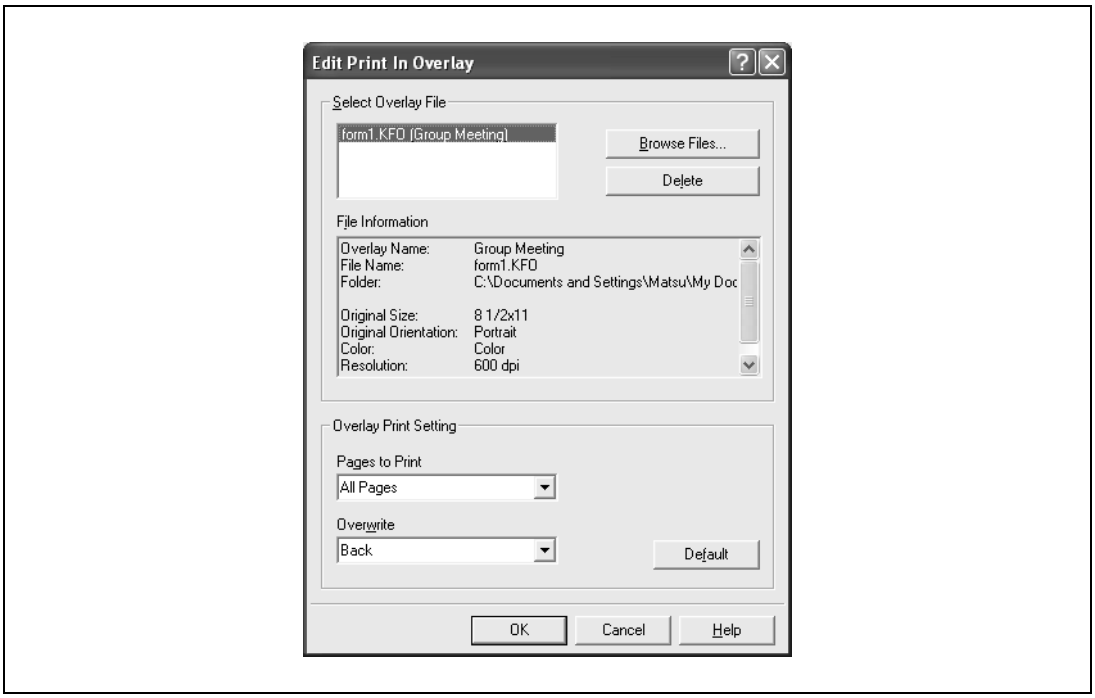
5 Select the "Print in Overlay" check box.

6 From the list, select the overlay that you want to print.

7 Click the [Edit] button under "Print in Overlay".

The Edit Print In Overlay dialog box appears.

8 Specify the overlay printing method.



- Pages to Print: Specifies the pages to print.
- Overwrite: Specifies the sequence for printing the overlay on top of the original document.

9 Click the [OK] button.

The Stamp/Composition tab appears again.

10 Click the [OK] button.

The Print dialog box appears again.

11 Click the [Print] button.

The printing of the overlay is performed.

Editing an overlay file

To use an overlay, an overlay file must be created and added to the overlay file list. You can create and save a new overlay file by selecting the "Create Overlay File" check box, specifying the document that you want to create as an overlay file, then clicking the [Print] button on the Print dialog box. To add an existing overlay file that was created to the list, specify the file.

Creating an overlay file

1 Create the overlay file data using any application.

2 From the [File] menu, select "Print".

3 Select this machine in "Printer Name", and then click the [Properties] button or the [Preferences] button.

4 Click the Stamp/Composition tab.

5 Select the "Create Overlay File" check box.

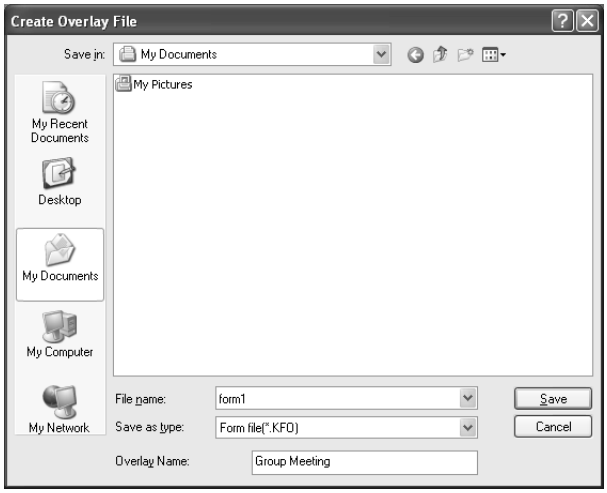
6 Click the [OK] button.

The Print dialog box appears again.

7 Click the [Print] button.

The dialog box to save the overlay file appears.

8 Specify the storage location for the overlay file, enter the file name in the "File Name" box, and then enter the overlay name or a comment in the "Overlay Name" text box.



9 Click the [Save] button.

Instead of executing a print, the overlay file is saved and is added to the list to be used for the next operation. The file extension is ".KFO".

Registering an overlay file

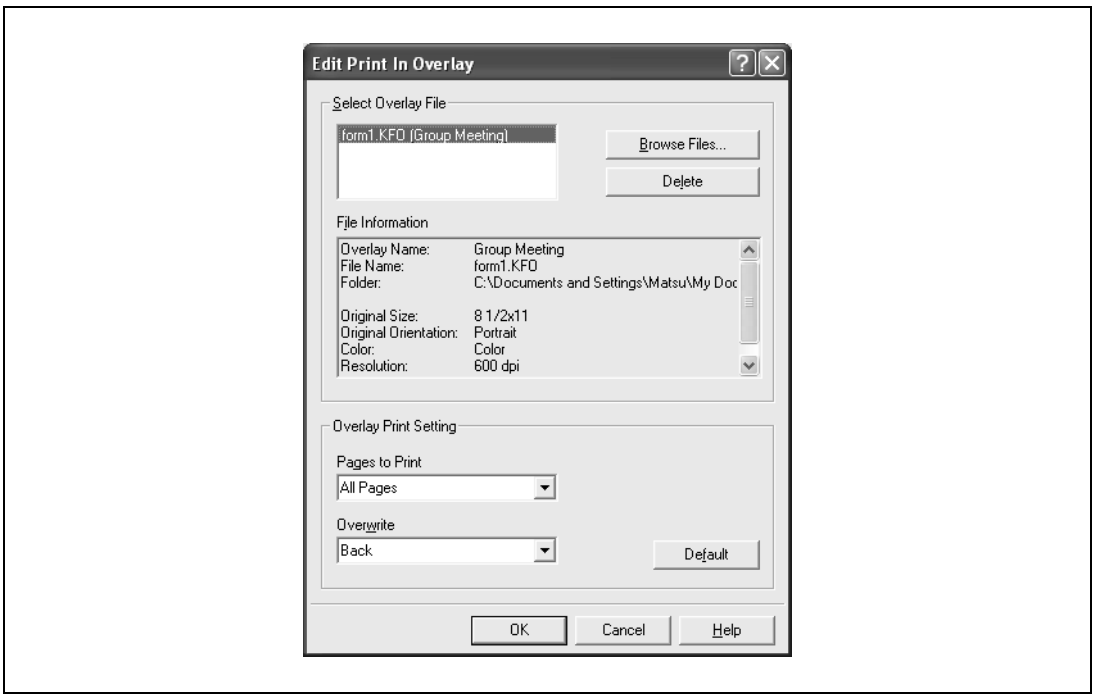
1 Click the Stamp/Composition tab.

2 Click the [Edit] button under "Print in Overlay".

The Edit Print In Overlay dialog box appears.

3 Click the [Browse Files] button to open the overlay file.

The overlay file is added to the "Select Overlay File" list.



Note

By clicking the [Delete] button in the Edit Print In Overlay dialog box, the selected overlay file can be deleted from the overlay file list. The file itself is not deleted.

Printing with copy protection

You can print a special pattern on an entire page while printing.

When copying a printed page, the characters embedded in the pattern appear to prevent an illegal copy.

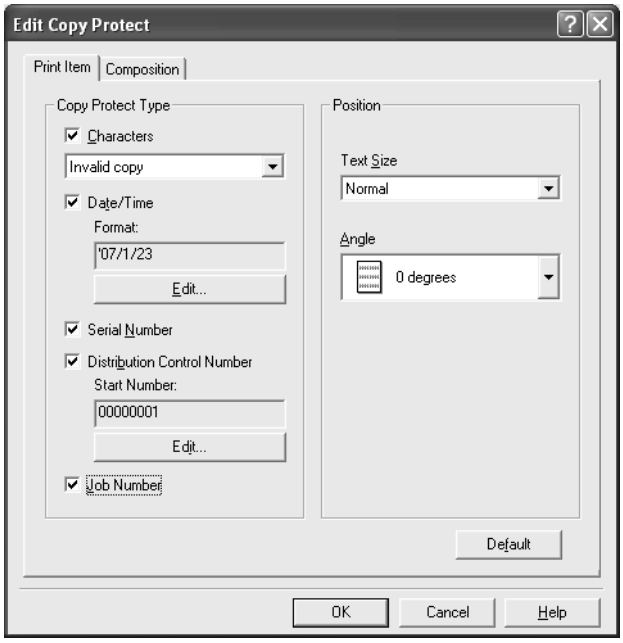
1 Click the Stamp/Composition tab.

2 Select the "Copy Protect" check box.

3 Click the [Edit] button under "Copy Protect".

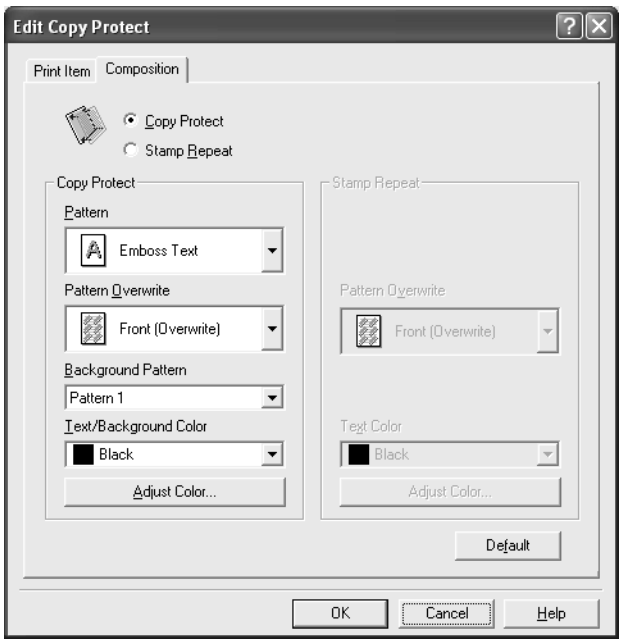
The Edit Copy Protect dialog box appears.

4 Specify the copy protection type and the position.
Multiple print items can be specified.



- 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 number of copies 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.

5 Select the composition method for copy protection.
Select "Copy Protect" to specify the desired results when copying, or simply select "Stamp Repeat". In addition, you can select the embedding conditions.



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

6 Click the [OK] button.

Printing the date and page numbers

You can print the date and page numbers on a document.

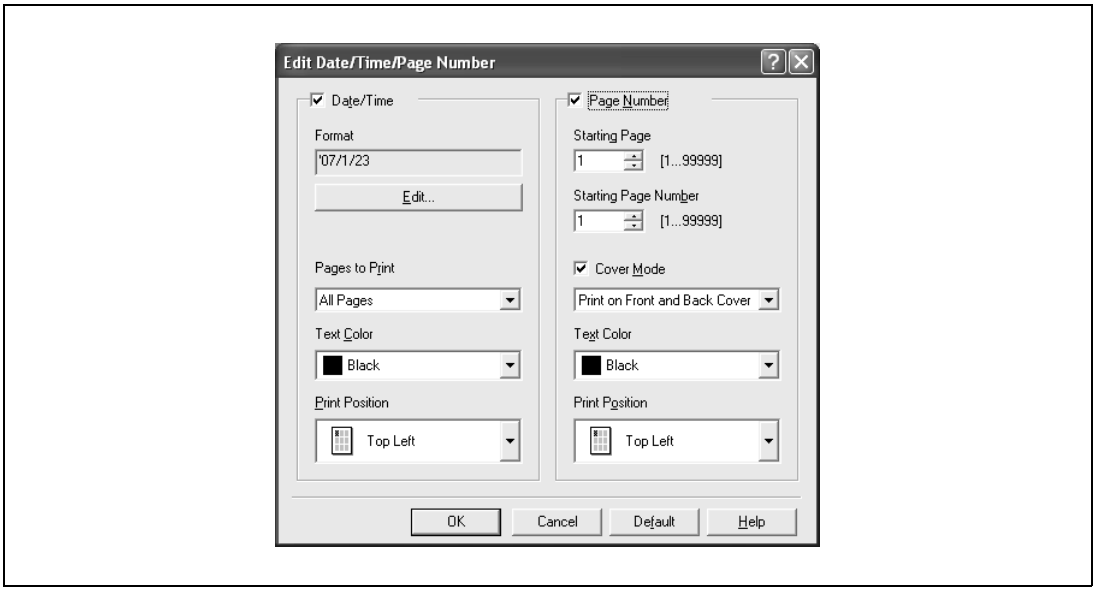
1 Click the Stamp/Composition tab.

2 Select the "Date/Time" or the "Page Number" check box.
The "Date/Time" and "Page Number" check boxes can be selected at the same time.

3 Click the [Edit] button under "Page Number".

The Edit Date/Time/Page Number dialog box appears.

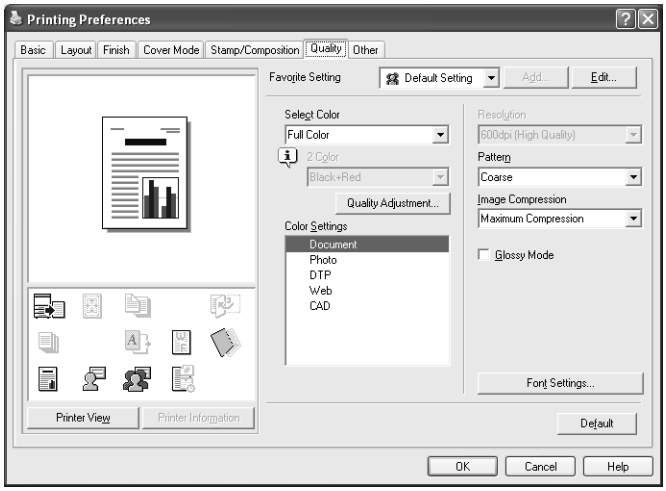
4 Specify the format and print position for the date, time, and page number.



- Format: Displays the format for the date and time to be printed. By clicking the [Edit] button, you can specify the display type or the time format.
- Pages to Print: Specifies the pages to print the date and time.
- Text Color: Specifies the text color to print.
- 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.

5 Click the [OK] button.

6.7 Specifying the quality tab settings



Adjusting the color and quality

1 Click the Quality tab.

2 Specify settings for the following:

Setting	Description
Select Color	Specifies the color for printing. Full Color: Prints in color. Grayscale: Prints in grayscale. 2 Color: Prints the two colors selected from the drop-down list.
Quality Adjustment	Adjusts the image quality. Simple: Adjusts the entire document. Detail: Adjusts the text, photos, and charts of each object in a document.
Color Settings	Specifies the contents of the original document. Prints with a quality suitable for the 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	Displays the resolution. (The resolution cannot be changed on this machine.)
Pattern	Selects the print pattern.
Image Compression	Specifies the compression ratio for an image.
Glossy Mode	Prints using a gloss finish.

Font Settings

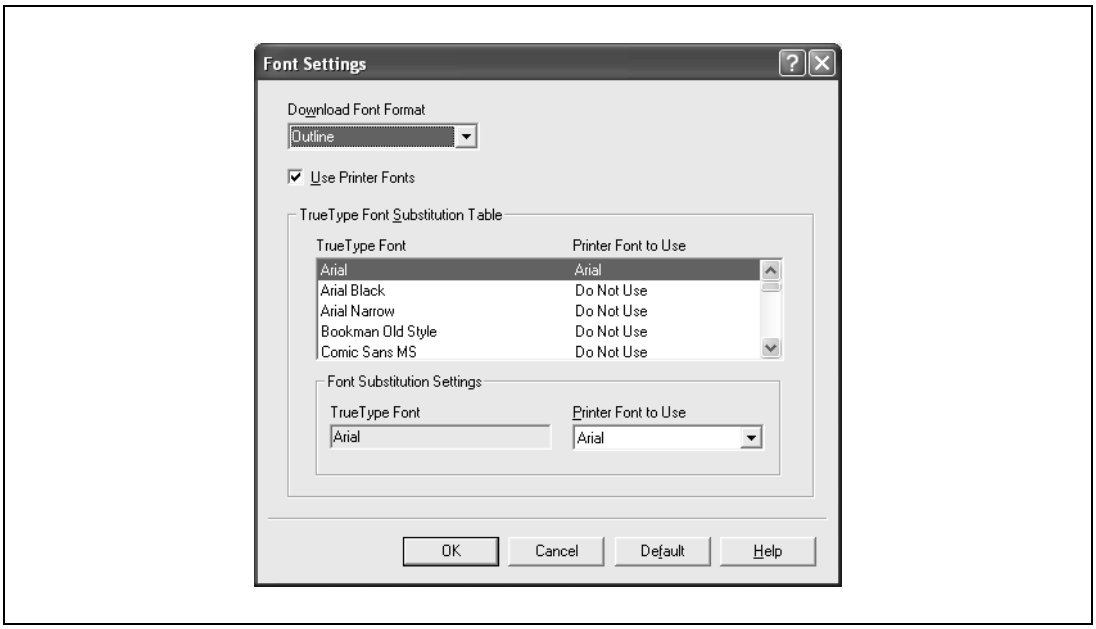
You can replace the TrueType fonts used in Windows with the printer fonts of this machine.

1 Click the Quality tab.

2 Click the [Font Settings] button.

3 Specify settings for the following:

- Download Font Format: Selects the TrueType font downloading method.
- Use Printer Fonts: Replaces the TrueType fonts with the printer fonts.



4 To use the printer fonts, change the fonts in "TrueType Font Substitution Table" as necessary.
From the list shown in the dialog box above, select the TrueType font that you want to replace, and then select the printer font from the "Printer Font to Use" drop-down list.

...

Note

Using the printer fonts will shorten the printing time, however, there may be a difference in the screen display and the print results.

By selecting the TrueType font download method from the "Download Font Format" drop-down list, you can select the TrueType font type to download when downloading the TrueType fonts and not using the printer fonts. When using TrueType fonts, select the font type to be downloaded to the printer.

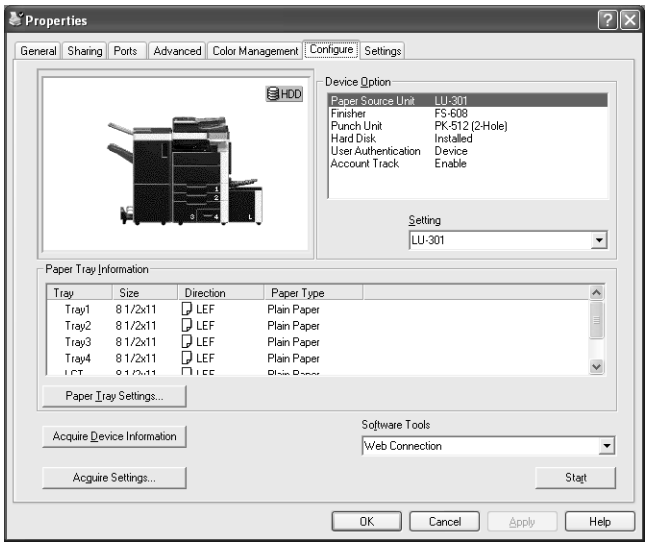
6.8 Specifying the Other tab settings (d-Color MF450)

Setting	Description
Excel Job Control	Controls jobs so that they are not separated when printing in Microsoft Excel.
Remove White Background	Removes the white background when creating an overlay file with Microsoft PowerPoint. If this check box is cleared, the back-ground is not removed and the overlay file is created according to the original document data.
Driver Version Info	Displays the version information of the printer driver.

Note

The "Excel Job Control" setting and the "Remove White Background" setting cannot be used with Windows XP Professional x64 or Windows Server 2003 x64.

6.9 Specifying the configure tab settings



...

Note

The information that is displayed differs depending on the options that are installed.

Selecting an option

The functions of this machine can be used from the printer driver if the installed options and the user authentication and account track functions are specified.

...

Reminder

If the installed options and 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 or using the authentication function, be sure to make the proper settings.

1 For Windows 2000/NT 4.0, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, 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 select "Printers and Faxes".

2 Right-click the icon of the installed printer, and then click "Properties".

3 Click the Configure tab.

4 Select the options to be specified under "Device Option".

5 Select the status of the option that is installed from the "Setting" drop-down list.

...

Note

Click the [Acquire Device Information] button to communicate with this machine and read the status of the settings specified on this machine. You cannot use this function if you are not connected to or able to communicate with this machine. The connection can be specified by clicking the [Acquire Settings] button.

d-Color MF450:
When the Mail Bin Kit is installed, you can assign output tray 1 and output tray 2 as mail bins.
To assign the output destination of the mail bins, select “Bin Setting” from “Administrator Setting” – “System Setting” – “Output Setting” on the control panel.

Specifying the paper tray

You can register the paper size, paper orientation, and paper type for the paper that is loaded in a paper tray.

Reminder

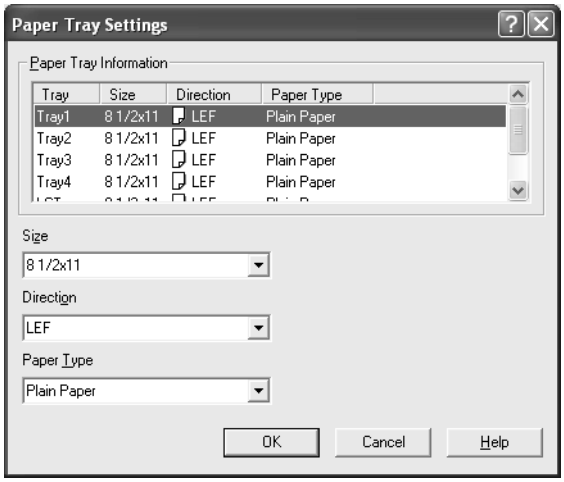
If the paper loaded in this machine and the paper specified from the printer driver are different, printing cannot be performed correctly. Be sure to make the proper settings.

1 Click the Configure tab.

2 Click the [Paper Tray Settings] button.

The Paper Tray Settings dialog box appears.

3 Select the desired tray in "Paper Tray Information", and then specify the paper size, paper orientation, and paper type.



4 Click the [OK] button.

Note

The paper type for a paper tray can also be specified from the Basic tab. For details, refer to "Specifying the basic tab settings" on page 6-7.

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

Starting up a software tool

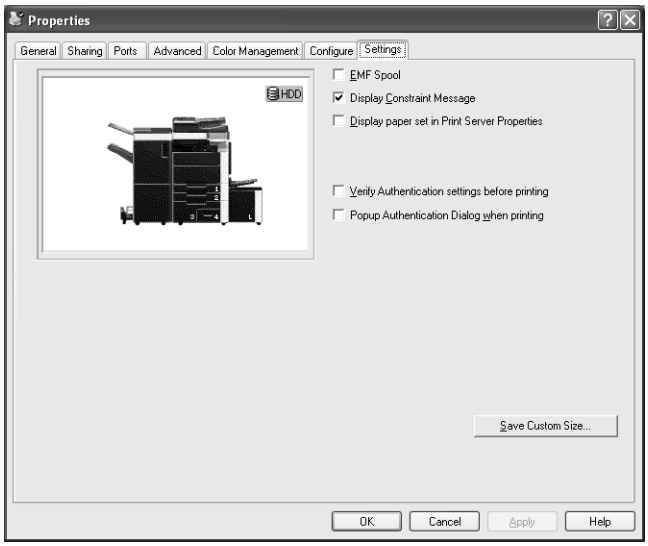
You can start up tools such as Web Connection that can be used by this machine.

1 Click the Configure tab.

2 From the "Software Tools" drop-down list, select the function.

3 Click the [Start] button.

6.10 Specifying the settings tab settings



Specifying the default settings

You can change the default settings for displaying the confirmation messages or the dialog box for entering the authentication settings.

1 For Windows 2000/NT 4.0, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, 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 select "Printers and Faxes".

2 Right-click the icon of the installed printer, and then click "Properties".

3 Click the Settings tab.

4 Specify settings for the following:

- d-Color MF450: EMF Spool: When using an original system environment, select this check box if a metafile (EMF) spool is required.
- Display Constraint Message: Specifies whether to display 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: Specifies whether to use the paper that was added in [Server Properties] of the printer folder.
- Verify Authentication settings before printing: Specifies whether to verify the authentication settings for this machine before printing. A message appears if the results verified 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.

Registering custom paper sizes

You can register the custom paper sizes that you use often. The paper registered is shown in the paper size list and can be selected like the other paper sizes.

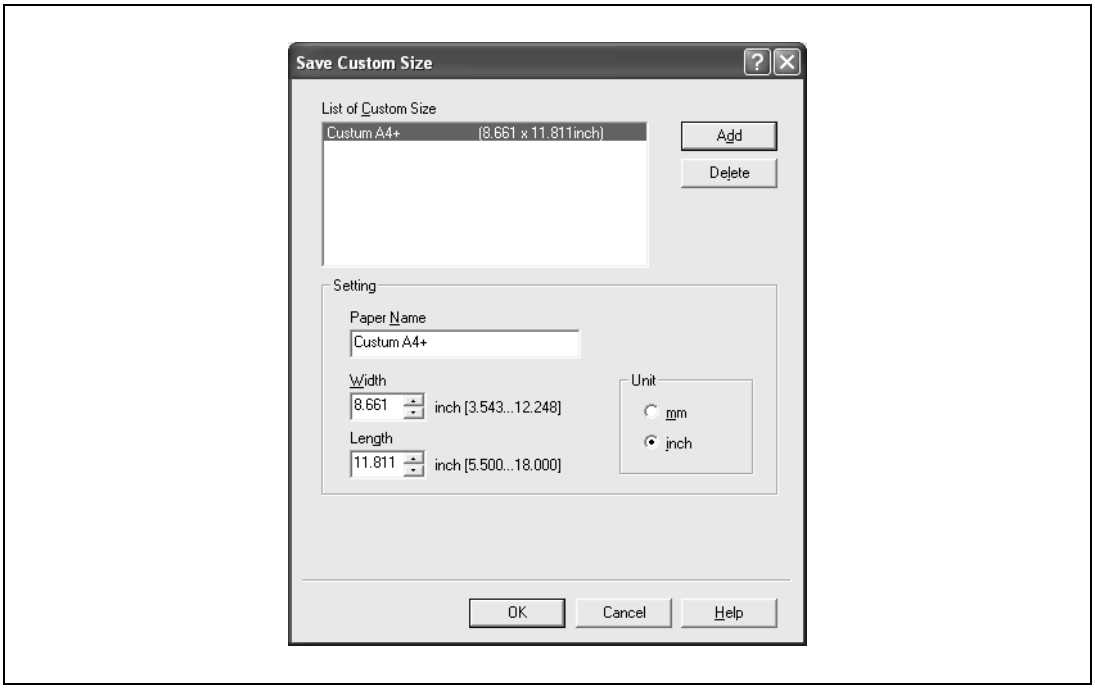
1 Click the Settings tab.

2 Click the [Save Custom Size] button.

The Save Custom Size dialog box appears.

3 Click the [Add] button.

The new paper size is added to "List of Custom Size".



4 Specify the paper name and size.

5 Click the [OK] button.

...

Note

Up to 10 custom paper sizes can be registered.

Up to 16 characters can be entered in the "Paper Name" text box.

From the Save Custom Size dialog box, the selected custom paper size can be deleted by clicking the [Delete] button. To edit a custom paper size, select the custom paper size and change the paper name and paper size.

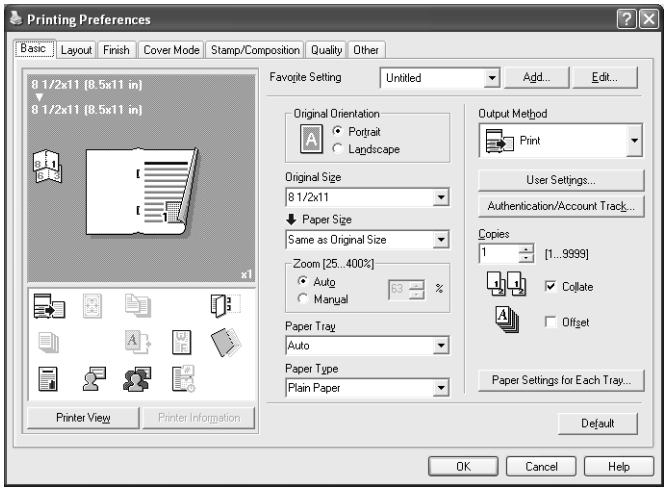
6.11 Saving the driver settings

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

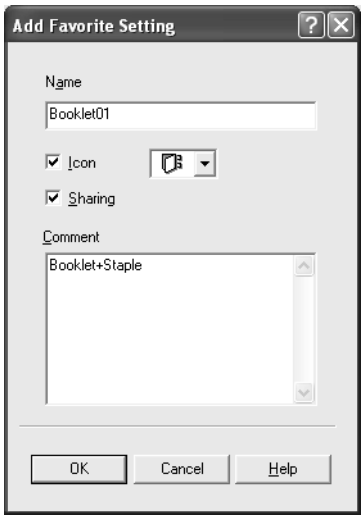
Saving the driver settings

1 Change the driver settings from the Basic tab and the Layout tab.

2 Click the [Add] button next to the "Favorite Setting" drop-down list.



3 Specify settings for the following:



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

4 Click the [OK] button.

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

...

Note

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

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

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

The settings that were specified can also be saved (exported) to a file. For details, refer to "Importing and exporting the driver settings" on page 6-38.

Recalling the settings

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

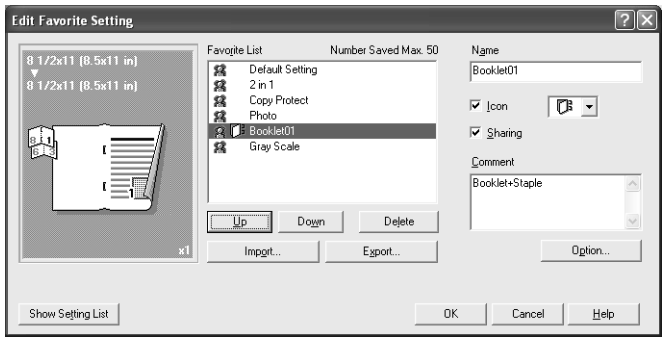
The setting values are recalled, and the settings for the printer driver are changed.

Editing the settings

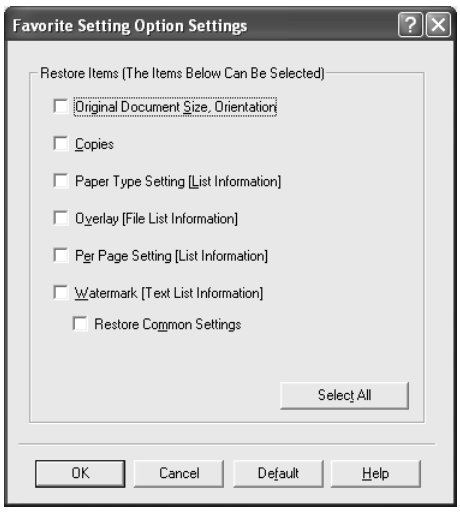
You can edit the recalled function items such as the specified names and comments.

1 In the Printing Preferences dialog box, click the [Edit] button next to the "Favorite Setting" drop-down list.

2 From the list, select the specified name that you want to change, and then change the setting.
To delete a setting, click the [Delete] button.
To switch the order displayed, click the [Up] button or the [Down] button.



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



4 Click the [OK] button.

Note
The specified settings of the driver functions cannot be changed.

Importing and exporting the driver settings

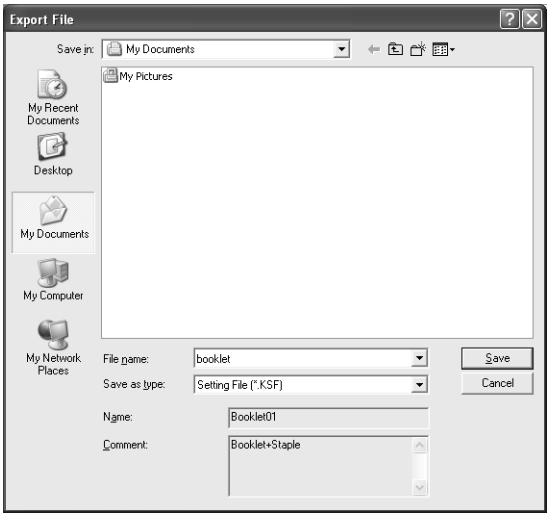
You can also save (export) or read (import) the settings that were specified to a file. This comes in handy when you want to use the same settings on another computer.

1 In the Printing Preferences dialog box, click the [Edit] button next to the "Favorite Setting" drop-down list.

2 From the list, select the specified name that you want to export, and then click the [Export] button.

The dialog box to save the specified file appears.

3 Specify the location to save the file and enter the file name.



4 Click the [Save] button.

The specified file is created. The file extension is ".KSF".

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

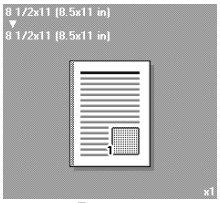
7 Setting up the PostScript driver (Windows)

7 Setting up the PostScript driver (Windows)

7.1 Settings

Common settings

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

Button	Function
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 settings to their defaults, which were selected when the driver was installed.
View	When the [Paper View] button is clicked, a preview of the page layout as specified in the current settings is displayed and a preview image of the print job can be checked. When the [Printer View] button is clicked, a printer figure is displayed showing any options, such as the paper tray, that are installed on this machine.  Paper Printer

Note

To enable any installed options, you must specify the Device Option settings. For details, refer to "Specifying the configure tab settings" on page 7-33.

Basic tab

Item	Function
Original Orientation	Specifies the orientation of the original document.
Original Size	Specifies the size of the original document.
Paper Size	Specifies the output paper size. Automatically enlarges or reduces when the Original Size setting is changed.
Zoom	Specifies the enlargement and reduction ratio.
Paper Tray	Selects the paper tray for printing.
Paper Type	Selects the paper type for printing.
Output Method	For non-conventional printing, selects special output methods such as "Secure Print" or "Save in User Box".
[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	Specifies the number of copies to print.
Collate	Specifies whether to print multiple copies in sets.
Offset	When printing multiple copies, shifts the output position of each set.
Paper Settings for Each Tray	Specifies the paper type for each paper tray.

Layout tab

Item	Function
Combination	Prints multiple pages on one page. Details can be specified by clicking the [Combination Details] button.
Rotate 180	Prints the image rotated 180°.
Chapter	Specifies the page to be printed on the front side.
Print Type	Specifies duplex printing and booklet printing.
Binding Direction	Specifies the binding position.
Binding Margin	Specifies the binding margin. Click the [Binding Margin Settings] button to specify the margin values.
Image Shift	Prints by shifting the entire print image. Click the [Image Shift Settings] button to specify the image shift values.

Finish tab

Item	Function
Staple	Specifies stapling.
Saddle Stitch	Specifies to saddle stitch a printed document.
Punch	Specifies hole punching.
Fold	Specifies folding.
Output Tray	Specifies the tray where to output the printed pages.
Paper Arrangement	Specifies the method for adjusting the binding position.

Cover mode tab

Item	Function
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.
Per Page Setting	Inserts paper between pages and switches the paper and tray for each page.
Transparency Interleave	Outputs and inserts interleaves when printing overhead projector transparencies.
Interleave Tray	Selects the input tray for the transparency interleaves.

Stamp/Composition tab

Item	Function
Watermark	Prints a watermark (text stamp) on the page being printed. Watermarks can be added, changed, or deleted by clicking the [Edit] button.
Create Overlay File	Prints an original document on top of an overlay that was created separately.
Copy Protect	Prints a special pattern to prevent copying.
Date/Time	Prints the date and time.
Page Number	Prints the page number.

Quality tab

Item		Function
Select Color		Specifies the color for printing.
Quality Adjustment		Adjusts the image quality. You can select "Simple" to adjust entire documents or "Detailed" to adjust the text, photos, and charts in the document.
Color Settings		Prints with a quality suitable for the selected original document.
Glossy Mode		Prints with a gloss.
Font Settings	Download Font Format	Selects whether the fonts are downloaded to the printer as bitmap or outline.
	Use Printer Fonts	Selects whether to use TrueType fonts or the printer fonts when printing.

Other tab (d-Color MF450)

Item	Function
Excel Job Control	Controls jobs so that they are not separated when printing in Microsoft Excel.
Driver Version Info	Displays the version information of the printer driver.

Advanced tab

Item	Function
Advanced Printing Features	Specifies whether to enable detailed print functions (booklet).
PostScript Output Option	Specifies the PostScript file output format.
Send PostScript Error Handler	Specifies whether to print an error report when a PostScript error occurs.
Mirrored Output	Reverses horizontally, then prints.
PostScript Pass through	Allows applications to print directly without using a GDI.

Device settings tab

Item	Function
Font Substitution Table	Specifies the replacement of TrueType fonts with printer fonts.
Available PostScript Memory	Specifies the usable PostScript memory size.
Output Protocol	Specifies the protocol for transmitting to the printer.
Send CTRL-D Before Each Job	Specifies whether to reset printer before printing.
Send CTRL-D After Each Job	Specifies whether to reset printer after printing.
Convert Gray Text to PostScript Gray	Specifies whether to convert gray text in a document to PostScript gray.
Convert Gray Graphics to PostScript Gray	Specifies whether to convert gray graphics in a document to PostScript gray.
Add Euro Currency Symbol to PostScript Fonts	Specifies whether to convert the Euro currency symbol in a document to PostScript fonts.
Job Timeout	Printer stops printing when a print job is not completed within the specified time.
Wait Timeout	Printer stops printing when the printer does not receive data within the specified time from when the job was sent.
Minimum Font Size to Downloaded as Outline	Specifies the minimum font size (pixels) when downloading TrueType fonts as outline fonts. Fonts smaller than the minimum specified size are downloaded as bitmap fonts.
Maximum Font Size to Download as Bitmap	Specifies the maximum font size (pixels) when downloading TrueType fonts as bitmap fonts. Fonts larger than the maximum specified size are downloaded as outline fonts.

Note

To display the Device Settings tab in Windows 2000/XP/Server 2003, right-click the icon of the installed printer, and then click "Properties".

Configure tab

Item	Function
Device Option	Specifies the status of the 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" drop-down list.
Paper Tray Information	Shows 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 status of the connection that executes getting the option information.
Software Tools	Starts up software tools such as Web Connection.

Note

To display the Configure tab in Windows 2000/XP/Server 2003, right-click the icon of the installed printer, and then click "Properties".

You cannot use the [Acquire Device Information] function if you are not connected to or able to communicate with this machine.

Settings tab

Item	Function
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 the user name and department name.

Note

To display the Settings tab in Windows 2000/XP/Server 2003, right-click the icon of the installed printer, and then click "Properties".

7.2 Specifying the basic tab settings

Printing to suit the paper size

You can enlarge or reduce documents created when printing to match the output paper size.

1 Click the Basic tab.

2 From the "Original Size" and "Paper Size" drop-down lists, select the desired settings.

– You can also specify any enlargement or reduction ratio in the "Zoom" box.

...

Note

To print on paper sizes other than the standard sizes, be sure to set the custom paper sizes in Custom Size Settings first.

When "W" is selected for each standard paper size from the printer driver, the data can be centered and printed.

For example, if A4 size data is created and you want to center and print on A3 size paper, select "A4W" as the paper size and "Tray 1" or "Bypass Tray" as the paper tray from the printer driver.

To print, load A3 size paper in the tray ("Tray 1" or "Bypass Tray") of this machine that was specified from the printer driver, and then specify the settings described below from [Basic (Paper)] – [Change Tray Settings] – [Wide Paper] in the control panel.
"A4W".
Enter the A3 paper size (420.0 × 297.0) in [Change Size].

Specifying a custom size

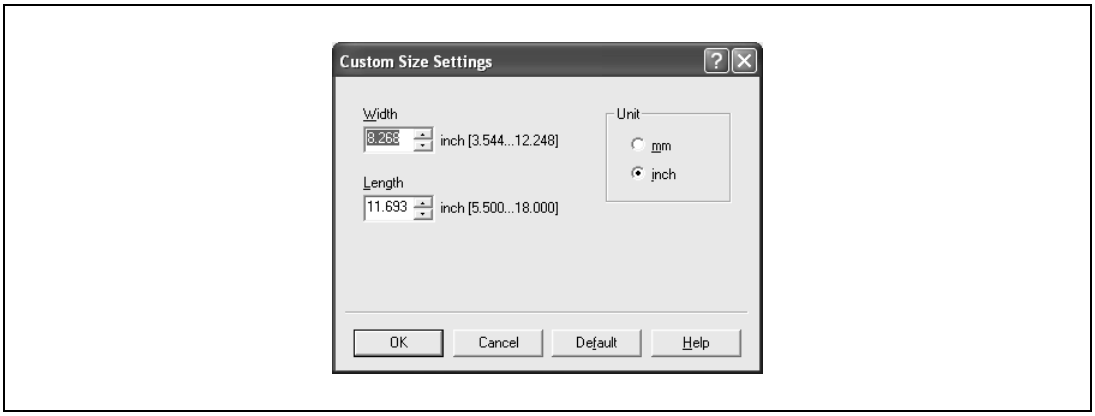
When printing on paper of a custom size, you can specify the paper size values by following the procedure described below.

1 From the "Original Size" or the "Paper Size" drop-down list, select "Custom Size".

The Custom Size Settings dialog box appears.

2 Specify settings for the following:

- Width: Specifies the width of the custom paper size according to the selected measurement unit.
- Length: Specifies the length of the custom paper size according to the selected measurement unit.
- Unit: Selects the measurement unit that specifies the size.



3 Click the [OK] button.

Note

d-Color MF450: If using banner paper, specify the size of the banner paper in Custom Size. For details, refer to "Printing on banner paper (d-Color MF450)" on page 11-50.

Selecting the paper tray

You can specify the paper you want to use for printing by selecting the paper tray that contains the loaded paper.

1 Click the Basic tab.

2 From the "Paper Tray" drop-down list, select the desired paper tray.

Note

If "Auto" is specified as the paper tray, you can select the paper type. If the paper tray setting is changed to a setting other than "Auto", the paper type is fixed to its preregistered setting. Specify a paper type by clicking the [Paper Settings for Each Tray] button. For details, refer to "Specifying the paper type for a paper tray" on page 7-10.

Specifying the paper type for a paper tray

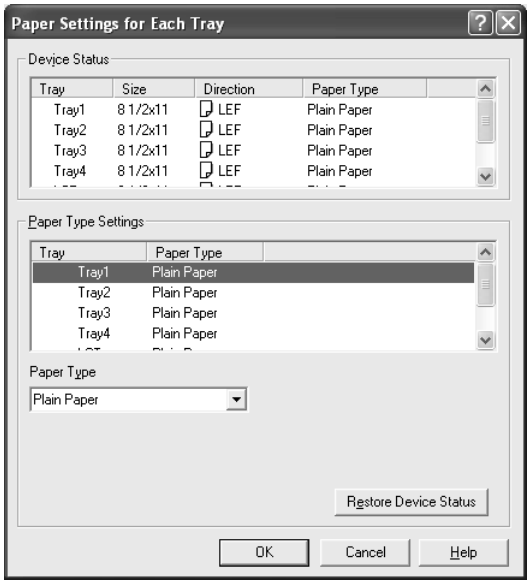
You can specify the paper type for a paper tray.

1 Click the Basic tab.

2 Click the [Paper Settings for Each Tray] button.

The Paper Settings for Each Tray dialog box appears.

3 From "Paper Type Settings", select the desired paper tray, and then select the paper type to be specified from the "Paper Type" drop-down list.



4 Click the [OK] button.

Note

The current specified settings can be checked in "Device Status".

Click the [Restore Device Status] button to communicate with this machine and read the status of the settings specified on this machine. You cannot use this function if you are not connected to or able to communicate with this machine.

The paper type for a paper tray can also be specified from the Configure tab, and the paper size and paper orientation can be specified as well. For details, refer to "Specifying the configure tab settings" on page 7-33.

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

Selecting the output method

Not only can you print directly, but you can select "Secure Print", which requires a password to print, or "Save in User Box", which saves data in the boxes that were created on the HDD.

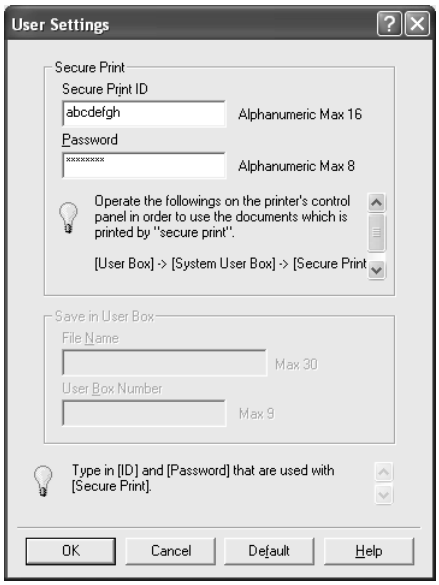
1 Click the Basic tab.

2 From the "Output Method" drop-down list, select the output method.

- Print: Prints immediately.
- Secure Print: Saves the document to be printed in "Secure Print User Box" of this machine. When printing, you are required to enter the ID and password in this machine's control panel. Select when printing highly confidential documents.
- Save in User Box: Saves the document to be printed in a 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 a part of the document has been printed, this machine stops printing temporarily. Select to avoid misprinting a large volume of print jobs.

Secure Print

If "Secure Print" was selected, enter the ID and password in the dialog box that appeared.



Note

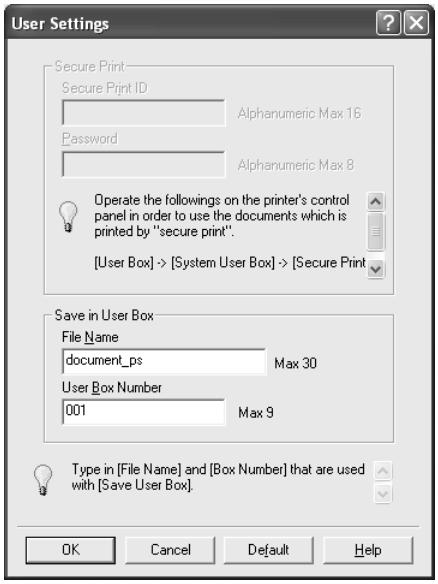
The ID and password that are required for "Secure Print" can be preregistered by clicking the [User Settings] button under "Output Method". If the ID and password are already registered, the dialog box to enter the ID and password does not appear when "Secure Print" is selected.

To print, specify "Secure Print Document Box" from the Box mode in this machine's control panel, and then enter the ID and password. For details, refer to "Print job management" on page 11-36. For details on the box functions of this machine, refer to the User manual – Box Operations.

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

Save in User Box

When "Save in User Box" or "Save in User Box and Print" is selected, specify the file name to be saved and the box number for the save location in the dialog box that appears for entering the file name and box number.



Note

The file name and box number that are required for "Save in User Box" can be preregistered by clicking the [User Settings] button under "Output Method". If the file name and box number are already registered, the dialog box to enter the file name and box number does not appear when "Save in User Box" is selected.

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

When password rules are enabled on this machine, specify the box that was created on this machine.

Proof Print

When a print job is sent, this machine stops printing temporarily after part of the document has been printed. The remaining print job is stored in this machine as a print job. When printing multiple copies, you can print the remaining part of the print job after checking the print results.

Note

To print the document, release the held document from the Job mode in this machine's control panel. For details, refer to "Print job management" on page 11-36.

Specifying the user authentication settings

If the user authentication settings have been specified on this machine, you must enter a user name and password.

Reminder

If a job is printed using a user name or password that is not a registered account on this machine, or if a job is printed without selecting a user under "User Authentication", the operation is not authenticated by this machine and the job is canceled.

If the user authentication settings are specified on this machine and the authentication operation restriction function is in mode 2, the applicable user is locked and cannot be accessed if the authentication information is not entered correctly.

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 "Specifying the configure tab settings" on page 7-33.

1 Click the Basic tab.

2 Click the [Authentication/Account Track] button.

3 Select "Recipient User", and then enter the user name and password.

4 Click the [OK] button.

Note

If this machine has been set to permit public users, the machine can be used without a user name and password.

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

Click the [Verify] button to communicate with this machine and to check whether authentication can be performed with the user that was entered. You cannot use this function if you are not connected to or able to communicate with this machine.

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

If performing user authentication with an optional authentication unit (biometric type), enter the user name and password in step 3. For details, refer to the operation manual of the authentication unit (biometric type).

Specifying the account track settings

If the account track settings have been specified on this machine, you must enter a department name and password.

Reminder

If a job is printed using a department name or password that is not a registered account on this machine, or if a job is printed without "Account Track" selected, the operation is not authenticated by this machine and the job is canceled.

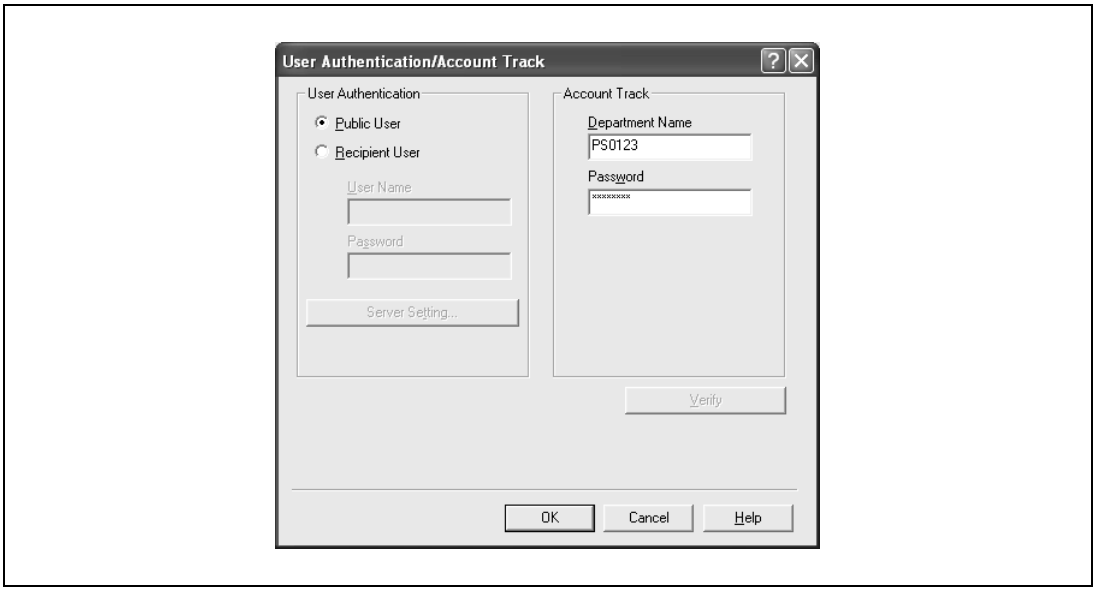
When the account track settings are specified on this machine, the authentication operation restriction function is in mode 2, and the authentication information is not entered correctly, the applicable account is locked and cannot be accessed.

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 "Specifying the configure tab settings" on page 7-33.

1 Click the Basic tab.

2 Click the [Authentication/Account Track] button.

3 Enter the department name and password.



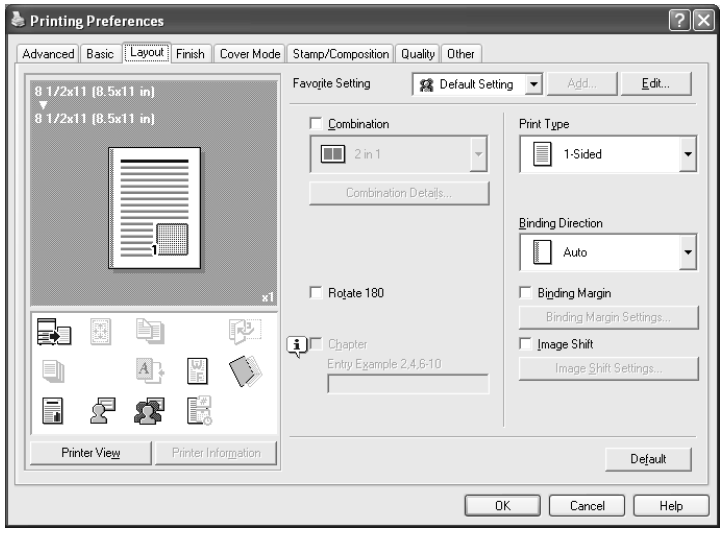
4 Click the [OK] button.

Note

Click the [Verify] button to communicate with this machine and to check whether authentication can be performed with the user that was entered. You cannot use this function if you are not connected to or able to communicate with this machine.

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

7.3 Specifying the layout tab settings



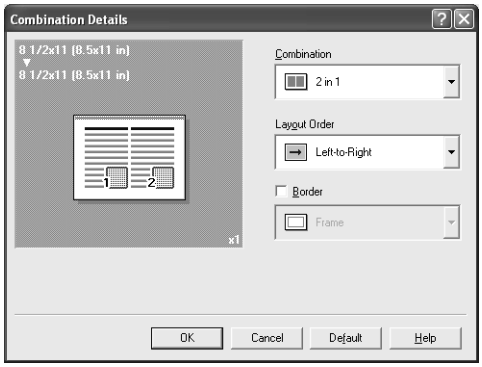
Printing multiple pages on one page (N in 1)

You can specify to print multiple pages of text on one page with N in 1 printing.

1 Click the Layout tab.

2 Select the "Combination" check box, and then specify the setting from the drop-down list.

– To change the "Border" settings, click the [Combination Details] button, and then change the settings in the dialog box that appears.



...

Reminder

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

Chapter

You can specify the page you want to print on the front side when duplex printing or booklet printing.

Even if a specified page comes up to be printed on the back side in duplex printing or booklet printing, the specified page is moved and printed on the front side.

1 Click the Layout tab.

2 Select the "Chapter" check box.

3 Enter the page number of the page you want to print on the front side.

Note
When entering multiple page numbers, separate the page numbers with commas such as "2, 4, 6" or enter a page range using a hyphen such as "6-10".

The "Chapter" check box can only be selected when the duplex printing or the booklet printing setting is enabled.

Specifying duplex/booklet printing

You can print a document onto both sides of a page or in a booklet format (two facing pages). This comes in handy when you want to bind multiple-page documents.

1 Click the Layout tab.

2 From the "Print Type" drop-down list, select "2-Sided" or "Booklet".

Note
The binding position can be specified from the "Binding Direction" drop-down list.

Setting the binding margin

Binding margins are added to the document before it is printed.

1 Click the Layout tab.

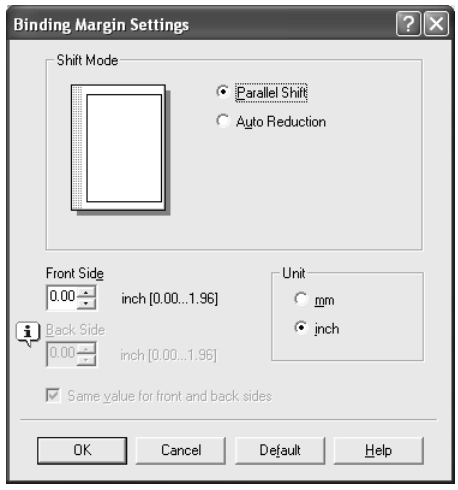
2 From the "Binding Direction" drop-down list, select the binding position.

3 Select the "Binding Margin" check box.

4 To set the width of the binding margin, click the [Binding Margin Settings] button, and then specify the desired settings in the Binding Margin Settings dialog box that appears.

- Shift Mode: To add a binding margin, select how the image is to be shifted.
- Front Side/Back Side: Sets the binding margin values. By clearing the "Same value for front and back sides" check box, you can specify separate values for the front and back sides.

– Unit: Selects the measurement unit that specifies the size.



Shifting images

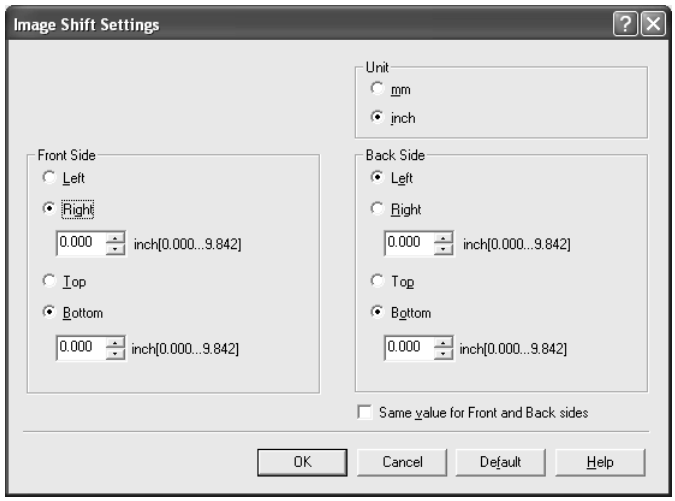
The entire print image of a document is shifted and then printed. You can use this function when you want to adjust the print position.

1 Click the Layout tab.

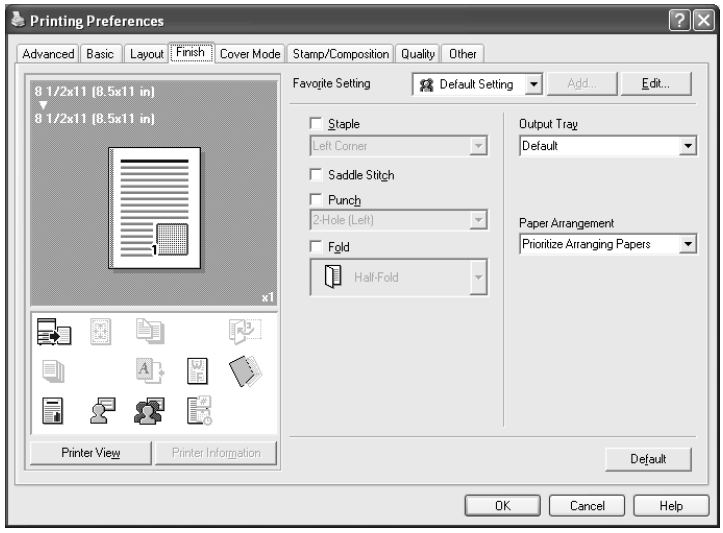
2 Select the "Image Shift" check box.

3 To set the image shift settings, click the [Image Shift Settings] button, and then specify the desired settings in the Image Shift Settings dialog box that appears.

– Unit: Selects the measurement unit that specifies the size.
– Front Side/Back Side: Specifies the shift direction and sets the values. By clearing the "Same value for Front and Back sides" check box, you can set separate values for the front and back sides.



7.4 Specifying the finish tab settings



Stapling

Multiple-page documents can be stapled.

Reminder
The staple function is available only when the optional finisher is installed.

1 Click the Finish tab.

2 Select the "Staple" check box.

3 From the drop-down list, specify the number of staples and the stapling position.

Note
Specify the staple position noting the binding position specified in "Binding Direction".

Specifying the saddle stitch setting

You can specify to saddle stitch a printed document. By specifying the saddle stitch setting, printed documents can be folded in half and stapled.

Reminder
The saddle stitch function is available only when optional finisher FS-608 is installed.

1 Click the Finish tab.

2 Select the "Saddle Stitch" check box.

Note
d-Color MF550: The saddle stitch function cannot be specified when the staple, punch, or fold function is specified.

d-Color MF450: The saddle stitch function is available only when optional saddle stitcher is installed.

Hole punching

Holes can be punched into the printed document.

...

Reminder

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

1 Click the Finish tab.

2 Select the "Punch" check box.

3 From the drop-down list, specify the number of punched holes.

...

Note

The hole-punch position changes according to the binding position specified from "Binding Direction".

Folding

You can specify to fold a printed document.

...

Reminder

d-Color MF550: The fold function is available only when optional finisher FS-608 is installed.

d-Color MF450: The fold function is available only when optional saddle stitcher is installed.

1 Click the Finish tab.

2 Select the "Fold" check box.

3 From the drop-down list, specify the folding condition.

...

Note

The fold function cannot be specified when the staple, punch, or saddle stitch function is specified.

Specifying the output tray

You can specify the tray to which the printed document is output.

1 Click the Finish tab.

2 From the "Output Tray" drop-down list, specify the output tray.

Specifying the procedure for adjusting the binding position

You can specify the procedure for adjusting the binding position for duplex printing.

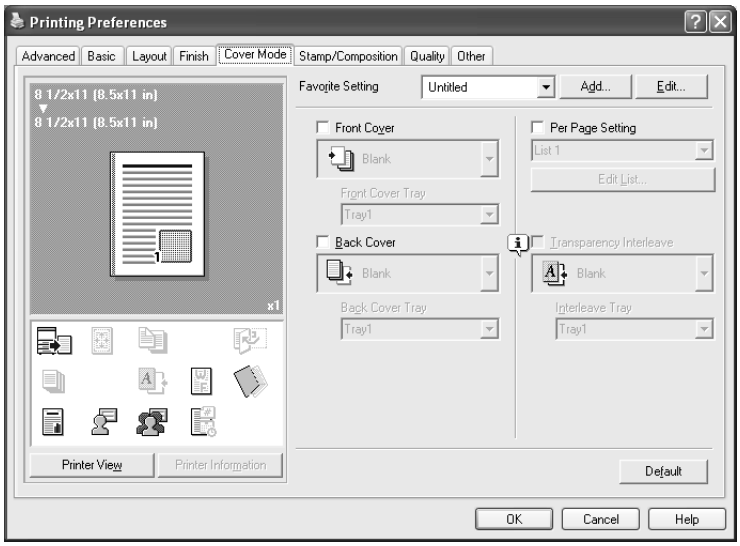
If "Prioritize Arranging Papers" is selected, all pages can be processed to a suitable quality by this machine because the binding position is adjusted after all the print data is received. If "Prioritize Productivity" is selected, the printing process is performed efficiently because the binding position is adjusted while the data is printed simultaneously as it is being received.

If you want to increase the print efficiency, select "Prioritize Productivity". If the desired binding position and width cannot be achieved, select "Prioritize Arranging Papers".

1 Click the Finish tab.

2 From the "Paper Arrangement" drop-down list, specify the processing method.

7.5 Specifying the cover mode tab settings



Printing documents with a front cover/back cover

1 Click the Cover Mode tab.

2 Select the "Front Cover" and "Back Cover" check boxes.

3 From the "Front Cover" and "Back Cover" drop-down lists, select the desired print settings.
To print on the front cover and back cover, select "Print". To only add a blank page, select "Blank".

4 Select the paper tray that contains the loaded paper for the front cover and back cover.

Printing multiple pages

You can specify the print type and paper tray for each page. This comes in handy when you want to change the paper tray during a print job when printing multiple pages.

1 Click the Cover Mode tab.

2 Select the "Per Page Setting" check box.

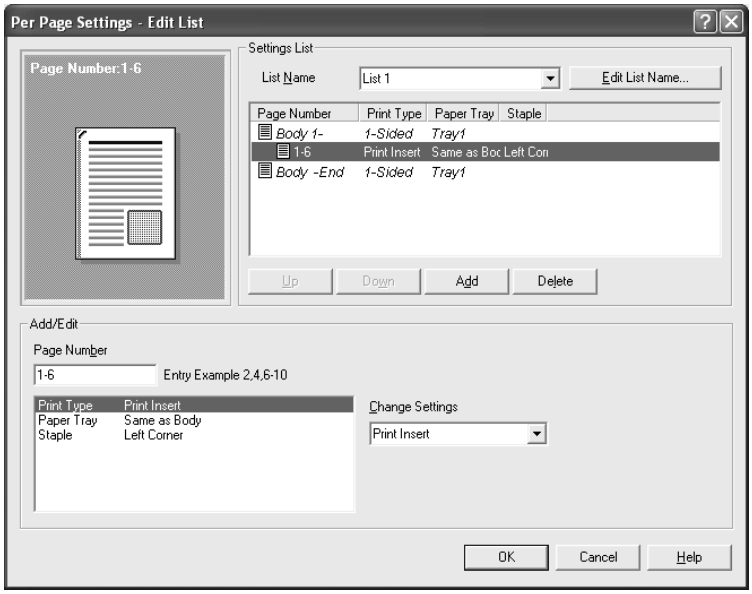
3 From the "Per Page Setting" drop-down list, select the desired list name.

4 Click the [Edit List] button.

The Per Page Settings – Edit List dialog box for specifying the print settings appears.

5 Click the [Add] button.

A new row for specifying the print settings is added to "Settings List".



6 Select the row that was added to the list, and then specify the print settings in "Add/Edit".

- Page Number: Enters the page number. When entering multiple page numbers, separate the page numbers with commas such as "2, 4, 6" or enter a page range using a hyphen such as "6-10".
- Print Type: Specifies Print Insert, Insert Blank Sheet, Print (1-Sided), and Print (2-Sided).
- Paper Tray: Specifies the paper tray.
- Staple: Specifies the number of staples and the stapling position.

7 Click the [OK] button.

...

Note

To change existing print settings, select the desired row and change the settings. To delete existing print settings, select the desired row, and then click the [Delete] button.

Click the [Up] button or the [Down] button to change the page number starting with the smallest page number.

The list name can be changed by clicking the [Edit List Name] button.

Printing with transparency interleaves

If "Transparency" is selected as the paper type, you can select the "Transparency Interleave" check box to enable the transparency interleave setting. By selecting the "Transparency Interleave" check box, overhead projector transparencies can be inserted between the printed pages.

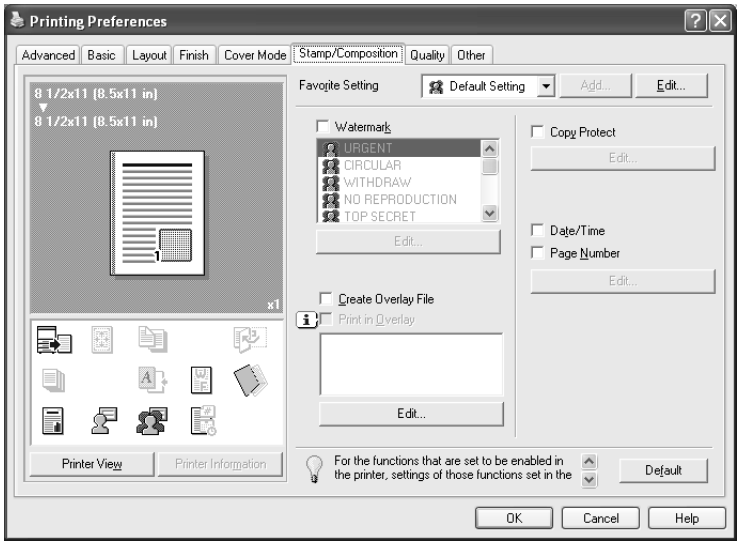
1 Click the Cover Mode tab.

2 Select the "Transparency Interleave" check box.

3 From the "Transparency Interleave" drop-down list, specify the printing conditions.

4 From the "Transparency Interleave" drop-down list, select the paper tray that contains the paper to be used.

7.6 Specifying the stamp/composition tab settings



Printing a watermark

You can print specific text in the background as a watermark.

1 Click the Stamp/Composition tab.

2 Select the "Watermark" check box.

3 From the list, select the watermark that you want to print.

Editing a watermark

You can change the fonts and position of the watermark and you can register a new one.

1 Click the Stamp/Composition tab.

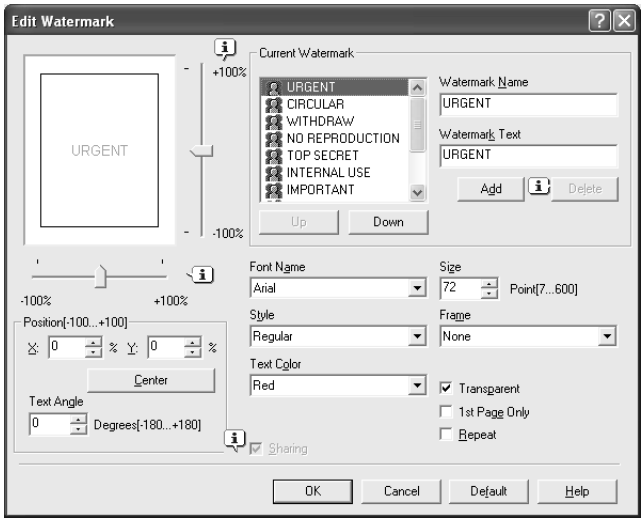
2 Select the "Watermark" check box.

3 Click the [Edit] button under "Watermark".

The Edit Watermark dialog box appears.

4 To create a watermark, click the [Add] button.
To change a watermark, select the watermark from the "Current Watermark" list.

5 Specify settings for the following:



- Watermark Name: Enters the name of the watermark.
- Watermark Text: Enters the text to be printed as a 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.
- Text 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.
- Sharing: Specifies whether to register the watermark as public or private.
- Transparent: Prints the watermark as a transparent image.
- 1st Page Only: Prints the watermark on the first page only.
- Repeat: Prints several watermarks on a single page.

6 Click the [OK] button.

Note

Up to 30 watermarks can be registered with the shared setting, and up to 20 watermarks can be registered with the private setting.

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

Printing different original documents together (overlay)

An original document can be printed on top of the overlay data that was created separately. This function comes in handy when creating fax cover letters or form letters.

Note

You must create and preregister the overlay file to be printed. For details, refer to "Editing an overlay file" on page 7-25.

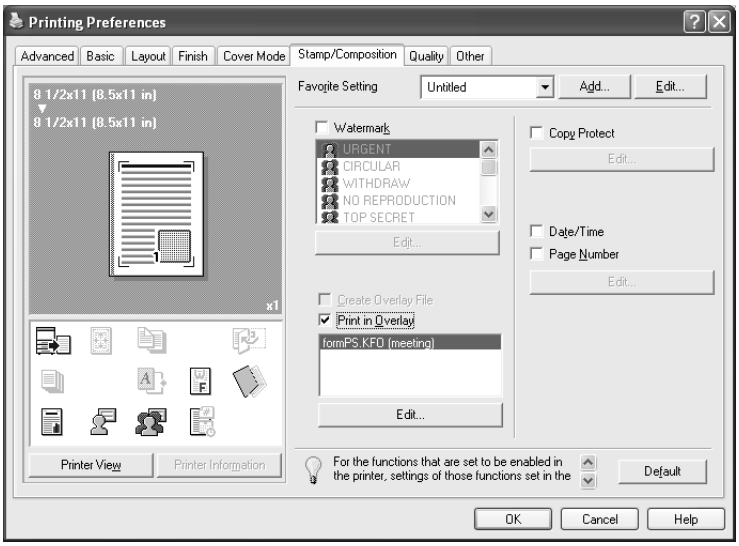
1 Create the print data using any application.

2 From the [File] menu, select "Print".

3 Select this machine in "Printer Name", and then click the [Properties] button or the [Preferences] button.

4 Click the Stamp/Composition tab.

5 Select the "Print in Overlay" check box.

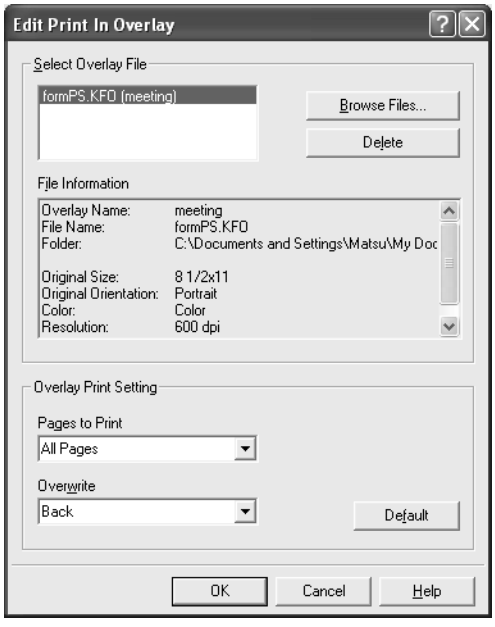


6 From the list, select the overlay that you want to print.

7 Click the [Edit] button under "Print in Overlay".

The Edit Print In Overlay dialog box appears.

8 Specify the overlay printing method.



– Pages to Print: Specifies the pages to print.
– Overwrite: Specifies the sequence for printing the overlay on top of the original document.

9 Click the [OK] button.

The Stamp/Composition tab appears again.

10 Click the [OK] button.

The Print dialog box appears again.

11 Click the [Print] button.

The printing of the overlay is performed.

Editing an overlay file

To use an overlay, an overlay file must be created and added to the overlay file list. You can create and save a new overlay file by selecting the "Create Overlay File" check box, specifying the document that you want to create as an overlay file, then clicking the [Print] button on the Print dialog box. To add an existing overlay file that was created to the list, specify the file.

Creating an overlay file

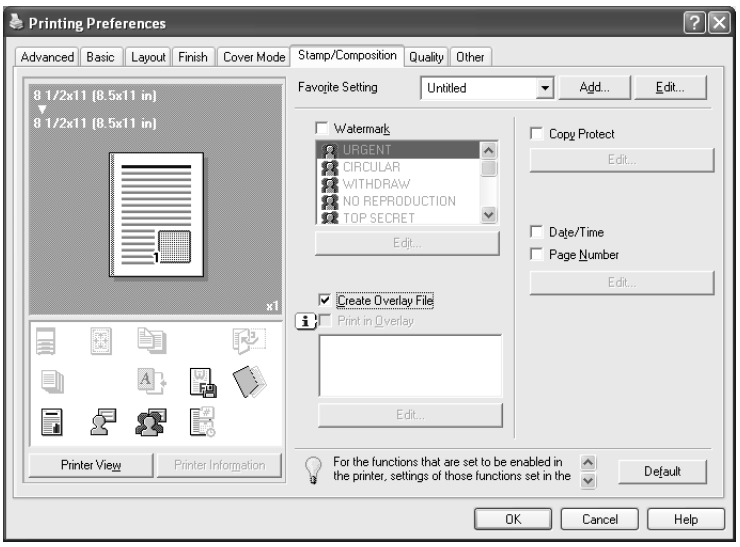
1 Create the overlay file data using any application.

2 From the [File] menu, select "Print".

3 Select this machine in "Printer Name", and then click the [Properties] button or the [Preferences] button.

4 Click the Stamp/Composition tab.

5 Select the "Create Overlay File" check box.



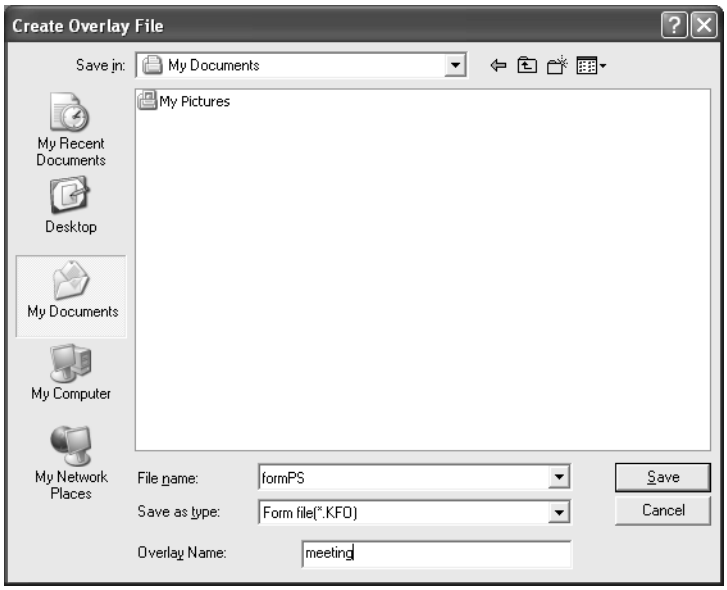
6 Click the [OK] button.

The Print dialog box appears again.

7 Click the [Print] button.

The dialog box to save the overlay file appears.

8 Specify the storage location for the overlay file, enter the file name in the "File Name" box, and then enter the overlay name or a comment in the "Overlay Name" text box.



9 Click the [Save] button.

Instead of executing a print, the overlay file is saved and is added to the list to be used for the next operation. The file extension is ".KFO".

Registering an overlay file

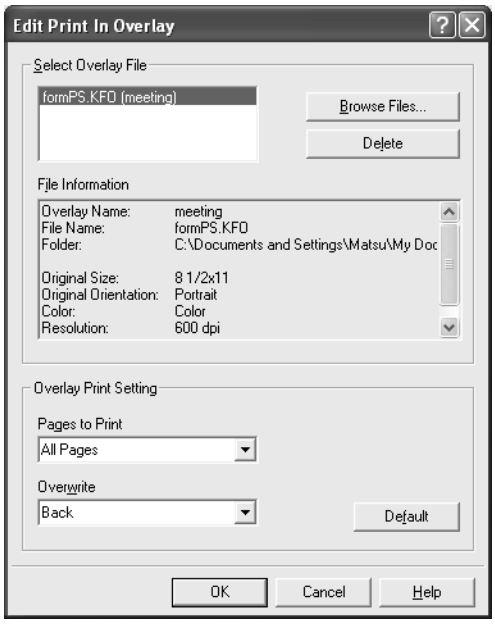
1 Click the Stamp/Composition tab.

2 Click the [Edit] button under "Print in Overlay".

The Edit Print In Overlay dialog box appears.

3 Click the [Browse Files] button to open the overlay file.

The overlay file is added to the "Select Overlay File" list.



...

Note

By clicking the [Delete] button in the Edit Print In Overlay dialog box, the selected overlay file can be deleted from the overlay file list. The file itself is not deleted.

Printing with copy protection

You can print a special pattern on an entire page while printing.

When copying a printed page, the characters embedded in the pattern appear to prevent an illegal copy.

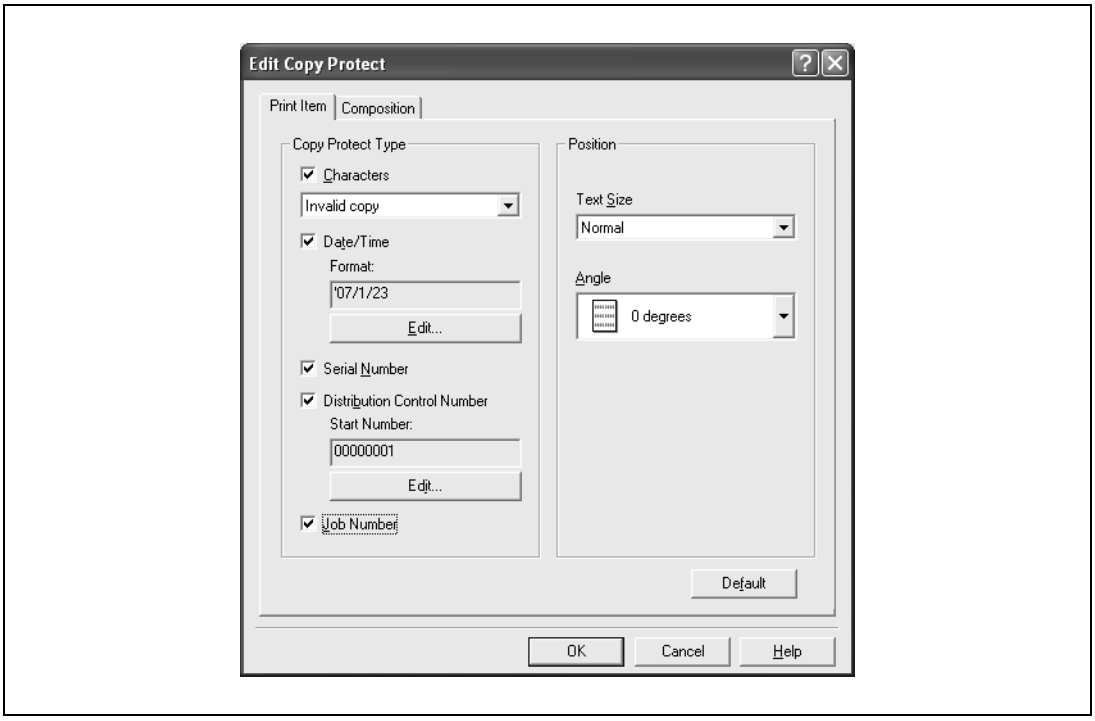
1 Click the Stamp/Composition tab.

2 Select the "Copy Protect" check box.

3 Click the [Edit] button under "Copy Protect".

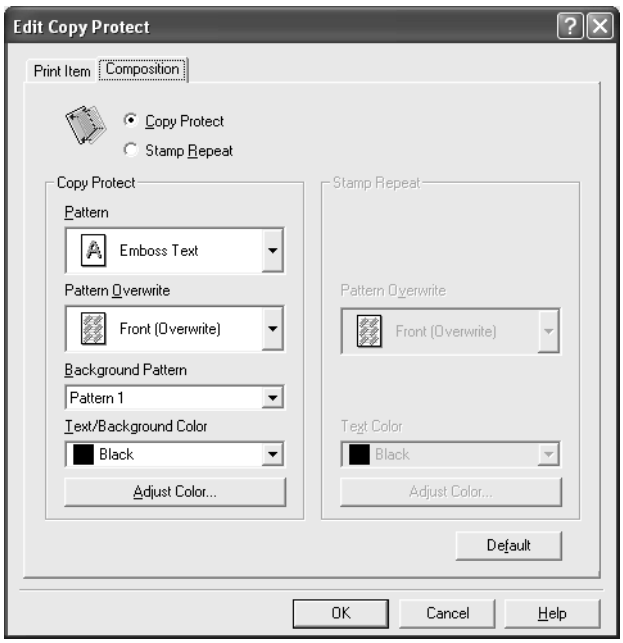
The Edit Copy Protect dialog box appears.

4 Specify the copy protection type and the position.
Multiple print items can be specified.



- 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 number of copies 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.

5 Select the composition method for copy protection.
Select "Copy Protect" to specify the desired results when copying, or simply select "Stamp Repeat". In addition, you can select the embedding conditions.



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

6 Click the [OK] button.

Printing the date and page numbers

You can print the date and page numbers on a document.

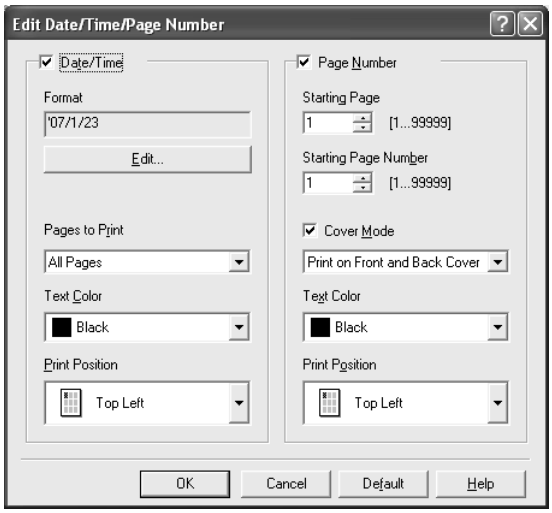
1 Click the Stamp/Composition tab.

2 Select the "Date/Time" or the "Page Number" check box.
The "Date/Time" and "Page Number" check boxes can be selected at the same time.

3 Click the [Edit] button under "Page Number".

The Edit Date/Time/Page Number dialog box appears.

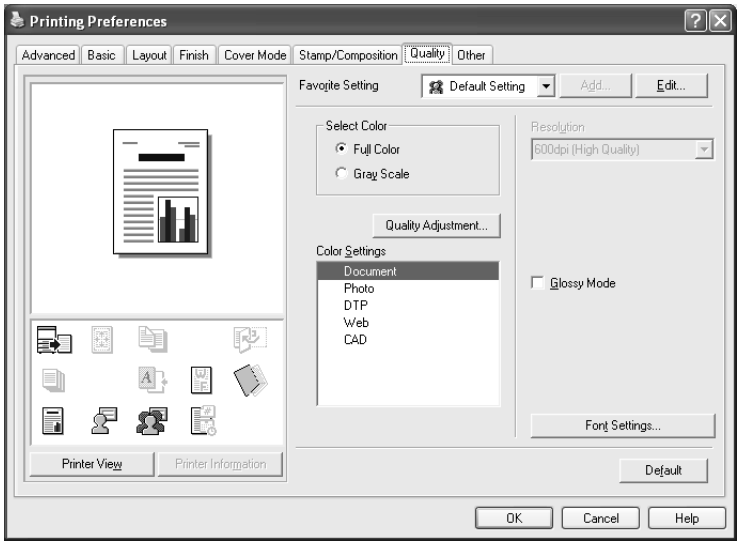
4 Specify the format and print position for the date, time, and page number.



- Format: Displays the format for the date and time to be printed. By clicking the [Edit] button, you can specify the display type or the time format.
- Pages to Print: Specifies the pages to print the date and time.
- Text Color: Specifies the text color to print.
- 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.

5 Click the [OK] button.

7.7 Specifying the quality tab settings



Adjusting the color and quality

1 Click the Quality tab.

2 Specify settings for the following:

Setting	Description
Select Color	Specifies the color for printing. Full Color: Prints in color. Grayscale: Prints in grayscale.
Quality Adjustment	Adjusts the image quality. Simple: Adjusts the entire document. Detailed: Adjusts the text, photos, and charts of each object in a document.
Color Settings	Specifies the contents of the original document. Prints with a quality suitable for the 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	Displays the resolution. (The resolution cannot be changed on this machine.)
Glossy Mode	Prints using a gloss finish.

Font Settings

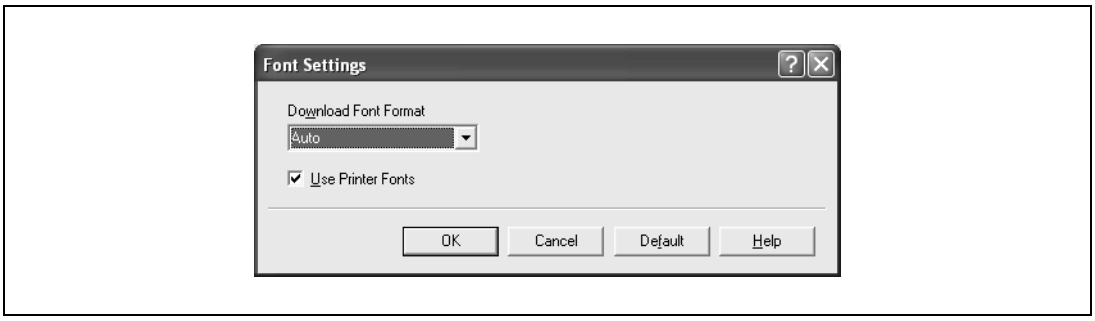
You can replace the TrueType fonts used in Windows with the printer fonts of this machine.

1 Click the Quality tab.

2 Click the [Font Settings] button.

3 Specify settings for the following:

- Download Font Format: Selects the TrueType font downloading method.
- Use Printer Fonts: Replaces the TrueType fonts with the printer fonts.



...

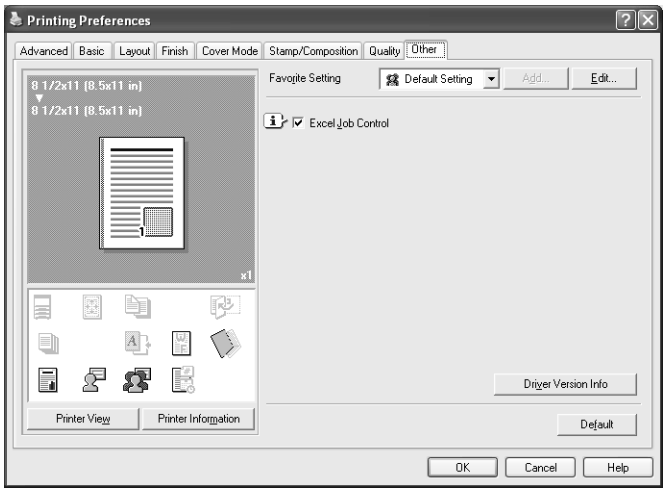
Note

Using the printer fonts will shorten the printing time, however, there may be a difference in the screen display and the print results.

By selecting the TrueType font download method from the "Download Font Format" drop-down list, you can select the TrueType font type to download when downloading the TrueType fonts and not using the printer fonts. When using TrueType fonts, select the font type to be downloaded to the printer.

Specify the font replacement list from the Device Settings tab.

7.8 Specifying the Other tab settings (d-Color MF450)



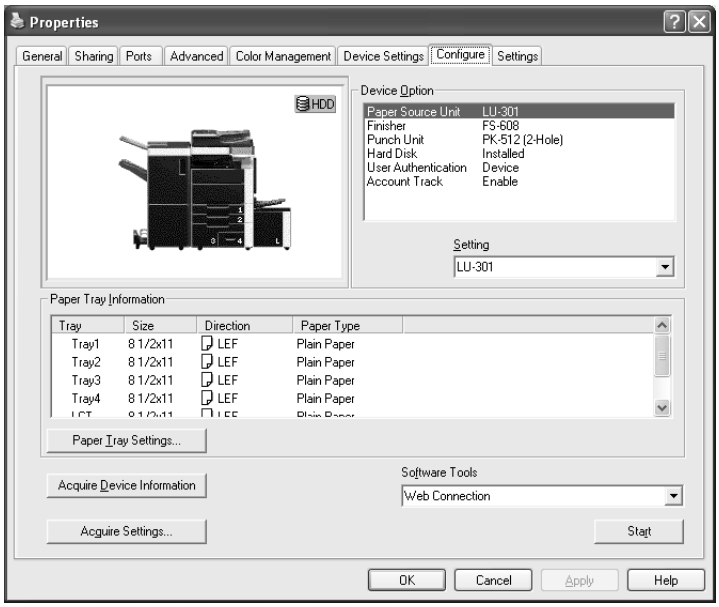
Setting	Description
Excel Job Control	Controls jobs so that they are not separated when printing in Microsoft Excel.
Driver Version Info	Displays the version information of the printer driver.

...

Note

The "Excel Job Control "setting cannot be used with Windows XP Professional x64 or Windows Server 2003 x64.

7.9 Specifying the configure tab settings



Note
The information that is displayed differs depending on the options that are installed.

Selecting an option

The functions of this machine can be used from the printer driver if the installed options and the user authentication and account track functions are specified.

Reminder
If the installed options and 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 or using the authentication function, be sure to make the proper settings.

1 For Windows 2000, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, 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 select "Printers and Faxes".

2 Right-click the icon of the installed printer, and then click "Properties".

3 Click the Configure tab.

4 Select the options to be specified under "Device Option".

5 Select the status of the option that is installed from the "Setting" drop-down list.

...

Note

Click the [Acquire Device Information] button to communicate with this machine and read the status of the settings specified on this machine. You cannot use this function if you are not connected to or able to communicate with this machine. The connection can be specified by clicking the [Acquire Settings] button.

d-Color MF450: When the Mail Bin Kit is installed, you can assign output tray 1 and output tray 2 as mail bins.
To assign the output destination of the mail bins, select "Bin Setting" from "Administrator Setting" – "System Setting" – "Output Setting" on the control panel.

Specifying the paper tray

You can register the paper size, paper orientation, and paper type for the paper that is loaded in a paper tray.

Reminder

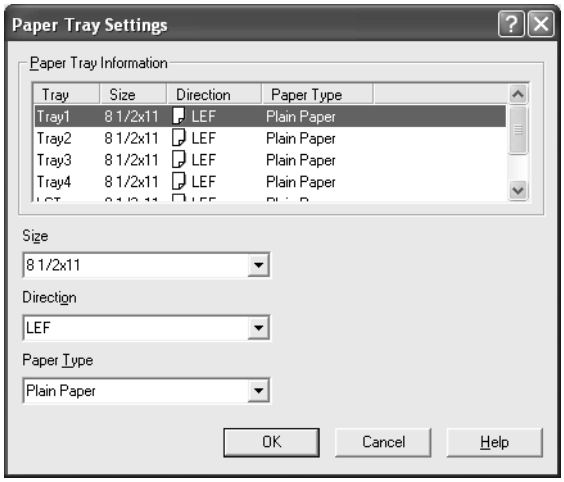
If the paper loaded in this machine and the paper specified from the printer driver are different, printing cannot be performed correctly. Be sure to make the proper settings.

1 Click the Configure tab.

2 Click the [Paper Tray Settings] button.

The Paper Tray Settings dialog box appears.

3 Select the desired tray in "Paper Tray Information", and then specify the paper size, paper orientation, and paper type.



4 Click the [OK] button.

Note

The paper type for a paper tray can also be specified from the Basic tab. For details, refer to "Specifying the basic tab settings" on page 7-8.

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

Starting up a software tool

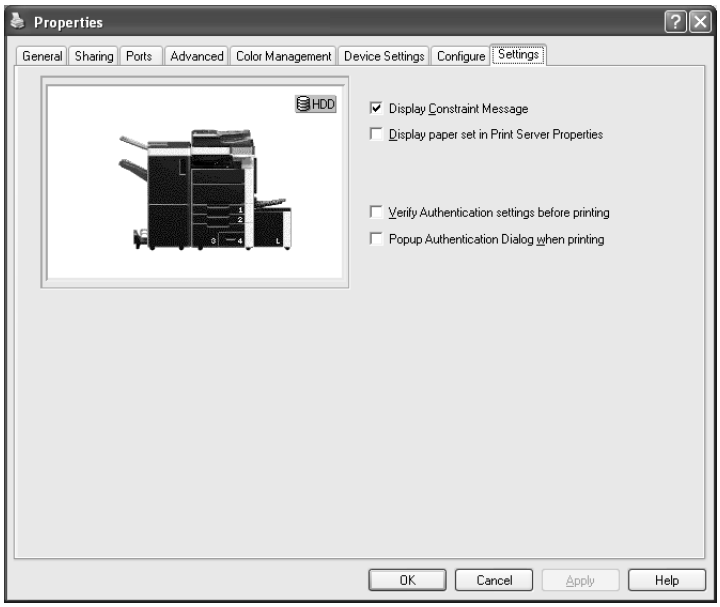
You can start up tools such as Web Connection that can be used by this machine.

1 Click the Configure tab.

2 From the "Software Tools" drop-down list, select the function.

3 Click the [Start] button.

7.10 Specifying the settings tab settings



Specifying the default settings

You can change the default settings for displaying the confirmation messages or the dialog box for entering the authentication settings.

1 For Windows 2000, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, 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 select "Printers and Faxes".

2 Right-click the icon of the installed printer, and then click "Properties".

3 Click the Settings tab.

4 Specify settings for the following:

- Display Constraint Message: Specifies whether to display 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: Specifies whether to use the paper that was added in [Server Properties] of the printer folder.
- Verify Authentication settings before printing: Specifies whether to verify the authentication settings for this machine before printing. A message appears if the results verified 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.

...

Note

If custom paper sizes are used regularly, add the paper size to [Server Properties] of the printer folder. If the "Display paper set in Print Server Properties" check box is selected, the paper size can be selected from the paper size list.

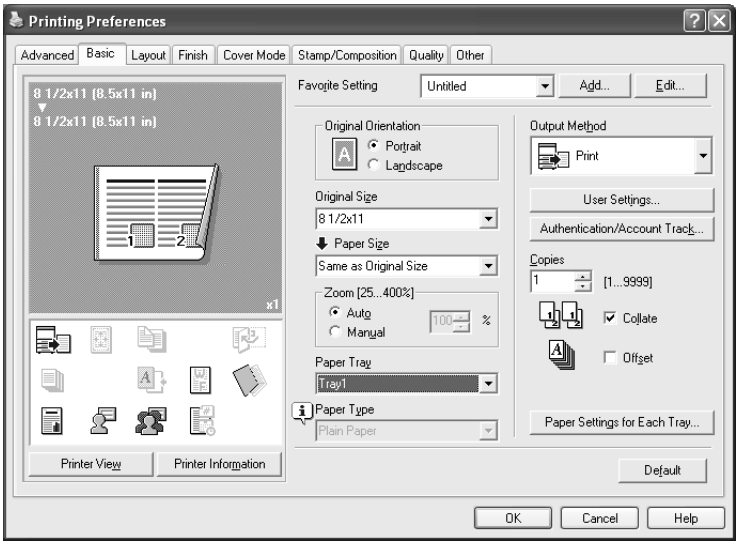
7.11 Saving the driver settings

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

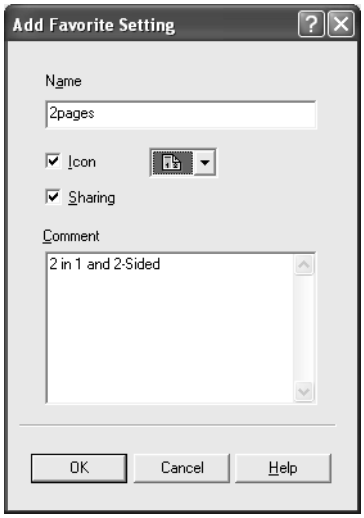
Saving the driver settings

1 Change the driver settings from the Basic tab and the Layout tab.

2 Click the [Add] button next to the "Favorite Setting" drop-down list.



3 Specify settings for the following:



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

4 Click the [OK] button.

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

Note

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

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

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

The settings that were specified can also be saved (exported) to a file. For details, refer to "Importing and exporting the driver settings" on page 7-40.

Recalling the settings

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

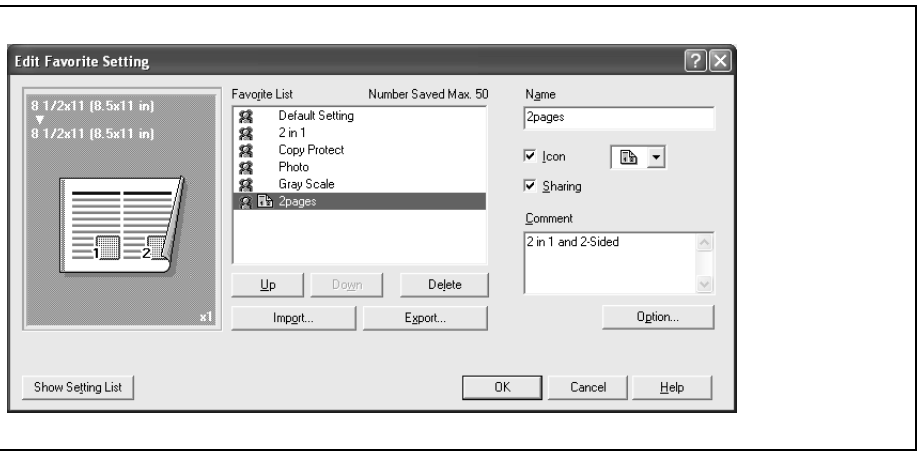
The setting values are recalled, and the settings for the printer driver are changed.

Editing the settings

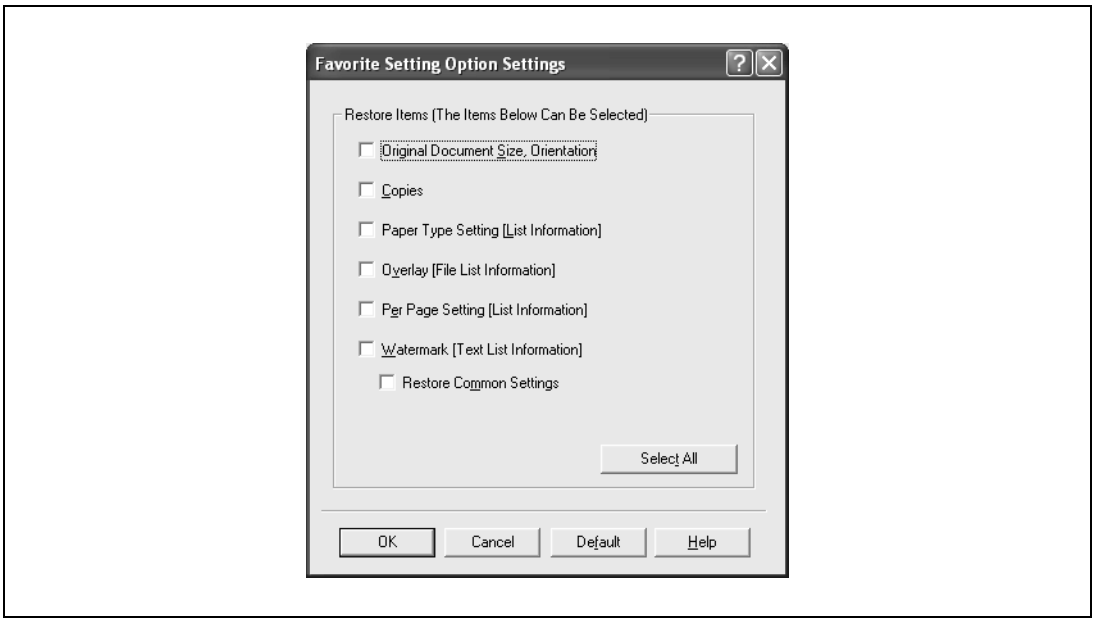
You can edit the recalled function items such as the specified names and comments.

1 In the Printing Preferences dialog box, click the [Edit] button next to the "Favorite Setting" drop-down list.

2 From the list, select the specified name that you want to change, and then change the setting. To delete a setting, click the [Delete] button.
To switch the order displayed, click the [Up] button or the [Down] button.



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



4 Click the [OK] button.

Note

The specified settings of the driver functions cannot be changed.

Importing and exporting the driver settings

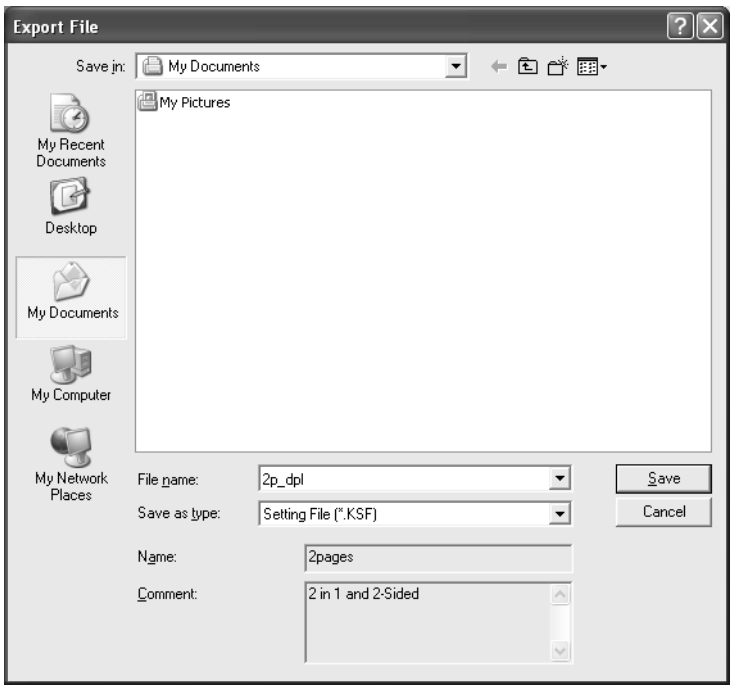
You can also save (export) or read (import) the settings that were specified to a file. This comes in handy when you want to use the same settings on another computer.

1 In the Printing Preferences dialog box, click the [Edit] button next to the "Favorite Setting" drop-down list.

2 From the list, select the specified name that you want to export, and then click the [Export] button.

The dialog box to save the specified file appears.

3 Specify the location to save the file and enter the file name.



4 Click the [Save] button.

The specified file is created. The file extension is ".KSF".

...

Note

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

8 Setting up the PPD driver (Mac OS 9.2)

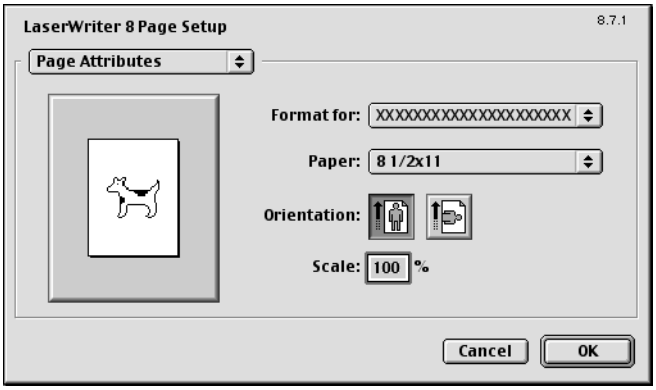
8 Setting up the PPD driver (Mac OS 9.2)

8.1 Settings

The functions of this machine can be specified on the Page Setup and Print dialog boxes displayed from an application.

The settings can only be applied while using the application. When the application is exited, the settings return to their defaults.

Page setup dialog box



Page Setup items

Menu	Item	Function
Page Attributes	Paper	Specifies the paper size.
	Orientation	Specifies the orientation.
	Scale	Specifies the enlargement and reduction ratio.
PostScript Options	Flip Horizontal	Prints the image flipped horizontally.
	Flip Vertical	Prints the image flipped vertically.
	Invert Image	Prints a negative image.
	Substitute Fonts	Replaces some fonts with printer fonts.
	Smooth Text	Smooths text data.
	Smooth Graphics	Smooths graphic data.
	Precision Bitmap Alignment	Corrects jagged graphic images.
	Unlimited Downloadable Fonts	Does not limit downloading screen fonts.
Custom Page Sizes	Paper Size	Specifies any paper size.
	Margins	Specifies the paper margins.
	Custom Page Size Name	Enters the registered name for the specified paper size and margin after the [OK] button is clicked.
	Units	Selects the specified unit.

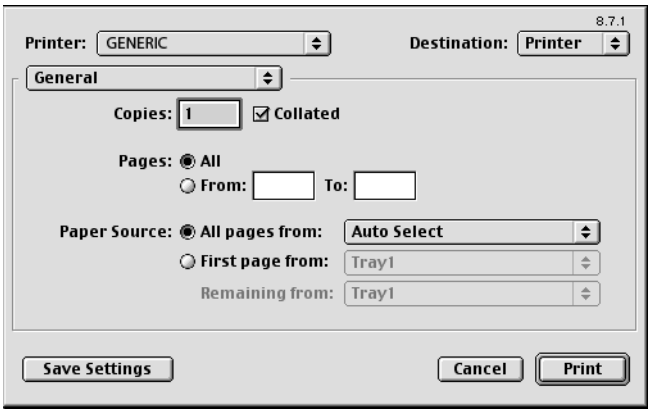
...

Note

Depending on the application, "Page Setup" may be displayed as "Paper Setup". In addition, you may have to select "Paper Setup" – "Options" from the "File" menu.

The dialog boxes differ depending on the application.

Print dialog box



Print items

Menu	Item	Function
Page Attributes	Copies	Specifies the number of copies to print.
	Collated	Prints multiple copies in sets.
	Pages	Specifies the print range to print.
	Paper Source	Selects the paper tray.
Color Matching	Print Color	Specifies the color for printing.
	Intent	Selects the matching method.
	Printer Profile	Specifies the color adjustment profile of the output device.
Background Printing	Print in	Specifies background printing.
	Print Time	Specifies the priority level and print time.
Save as File	Format	Specifies the PostScript file output format.
	PostScript Level	Specifies the PostScript level.
	Data Format	Specifies the format to save a document.
	Font Inclusion	Specifies whether to include the font data on a file.
Font Settings	Font Documentation	Adds information to the font key.
	Font Downloading	Specifies the conditions to download fonts.
Layout	Pages per sheet	Specifies the number of pages to print on one page.
	Layout direction	Specifies the page order for printing multiple pages on one page.
	Border	Specifies the borders around pages.
Job Logging	If there is a PostScript error	Specifies the PostScript error report conditions.
	Job Documentation	Specifies the conditions for the operation record to be saved.
	Job Documentation Folder	Specifies the folder to which the operation record is to be saved.
Cover Page	Print Cover Page	Attaches a cover.
	Cover Page Paper Source	Selects the paper tray for the cover.

Menu	Item	Function
Finishing Options 1	Offset	Specifies offset.
	Output Tray	Selects the output tray.
	Binding Direction	Specifies the binding position.
	Print Type	Performs duplex printing.
	Combination	Performs booklet printing.
	Staple	Performs stapling.
	Punch	Performs hole punching.
Finishing Options 2	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.
Finishing Options 3	Output Method	Stops printing temporarily after part of the document has been printed so that the proof print can be checked.
	Resolution	Specifies the print resolution.
	Select Color	Specifies whether to print in color or grayscale.
	Glossy Mode	Prints using a gloss finish.
	Color Settings	Prints with a quality suitable for the original document.
	Color Matching (Text)	Adjusts the color quality of the text in a document.
	Pure Black (Text)	Specifies whether to enable grayscale of the text in a document.
Finishing Options 4	Screen (Text)	Specifies screening of the text in a document.
	Color Matching (Photo)	Adjusts the color quality of photos in a document.
	Pure Black (Photo)	Specifies whether to enable grayscale of photos in a document.
	Screen (Photo)	Specifies screening of photos in a document.
	Smoothing (Photo)	Specifies smoothing of photos in a document.
	Color Settings (Graphic)	Adjusts the color quality of a chart and graph in a document to the text or photo settings.
	Smoothing (Graphic)	Adjusts the smoothing process of a chart and graph in a document to the text or photo settings.

Note

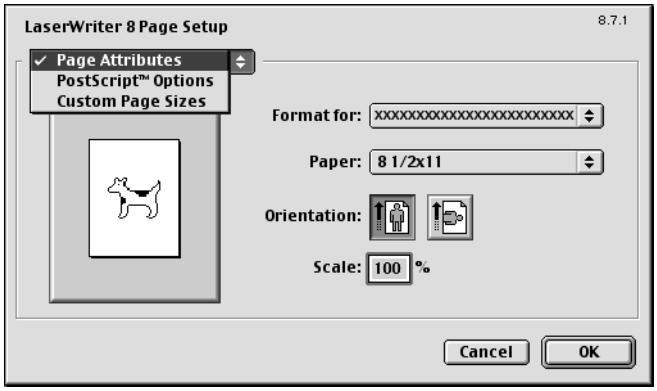
The dialog boxes differ depending on the application.

8.2 Page setup

Page attributes (basic settings)

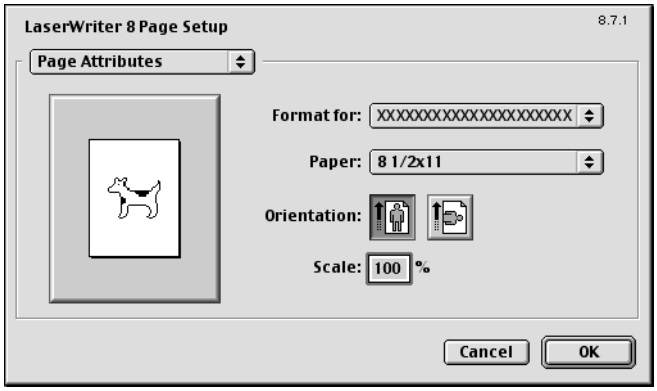
1 Select "Page Setup" or "Paper Setup" from the [File] menu.

2 Select "Page Attributes".



3 Specify settings for the following:

- Paper: Specifies the paper size.
- Orientation: Specifies the orientation.
- Scale: Specifies the enlargement and reduction ratio.



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Note

The folding function can be selected from the screen that is displayed when "Layout" is selected in the Print dialog box.

Custom page sizes

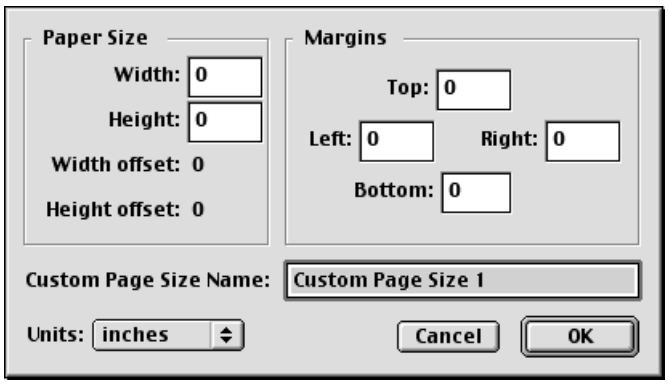
1 Select "Page Setup" or "Paper Setup" from the [File] menu.

2 Select "Custom Page Sizes".

3 Click the [New] button.

4 Specify settings for the following:

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



5 Click the [OK] button.

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

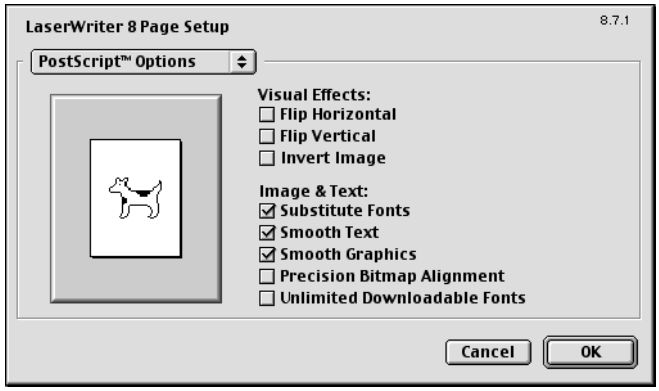
PostScript options

1 Select "Page Setup" or "Paper Setup" from the [File] menu.

2 Select "PostScript Options".

3 Specify settings for the following:

- Visual Effects: Provides "Flip Horizontal", "Flip Vertical", and "Invert Image" (negative image).
- Substitute Fonts: Replaces some fonts with printer fonts.
- Smooth Text: Smooths text data.
- Smooth Graphics: Smooths graphic data.
- Precision Bitmap Alignment: Corrects jagged graphic images.
- Unlimited Downloadable Fonts: Does not limit downloading screen fonts.

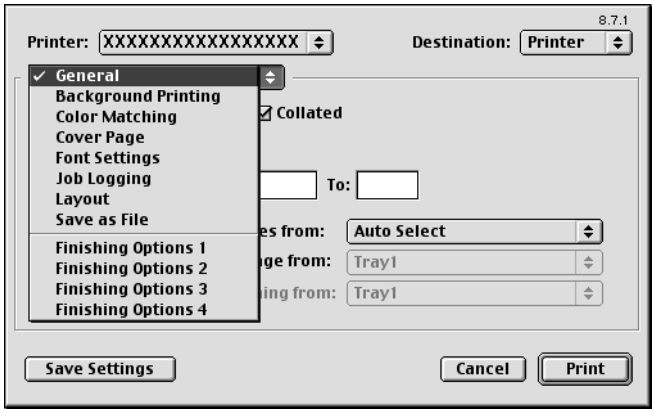


8.3 Printing

General (basic settings)

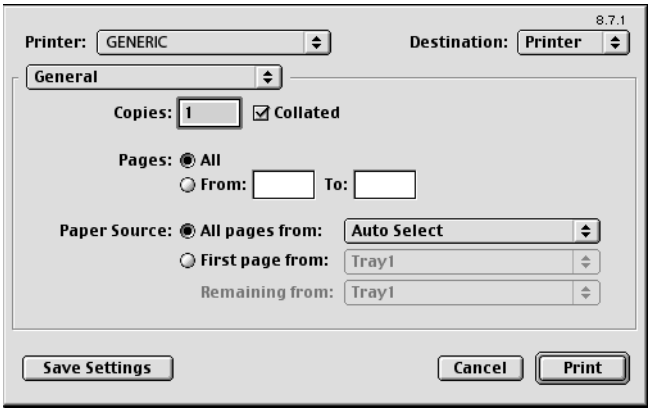
1 From the [File] menu, select "Print".

2 Select "General".



3 Specify settings for the following:

- Copies: Specifies the number of copies to print.
- Collated: Prints multiple copies in sets.
- Pages: Specifies the print range to print.
- Paper Source: Selects the paper tray.



Layout (printing multiple pages on one page)

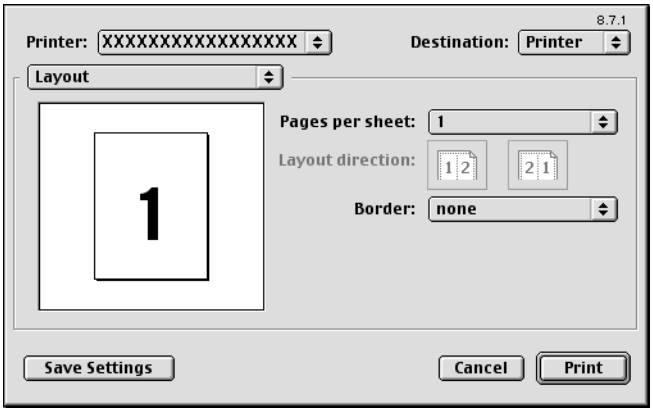
You can specify to print multiple pages on one page.

1 From the [File] menu, select "Print".

2 Select "Layout".

3 Specify settings for the following:

- Pages per sheet: Specifies the number of pages to print on one page.
- Layout direction: Specifies the page order for printing multiple pages on one page.
- Border: Specifies the borders around pages.



Printer specific options (Finishing options 1 to 4)

You can specify printer-specific options. You can specify these options when using the staple or hole punch functions of this machine.

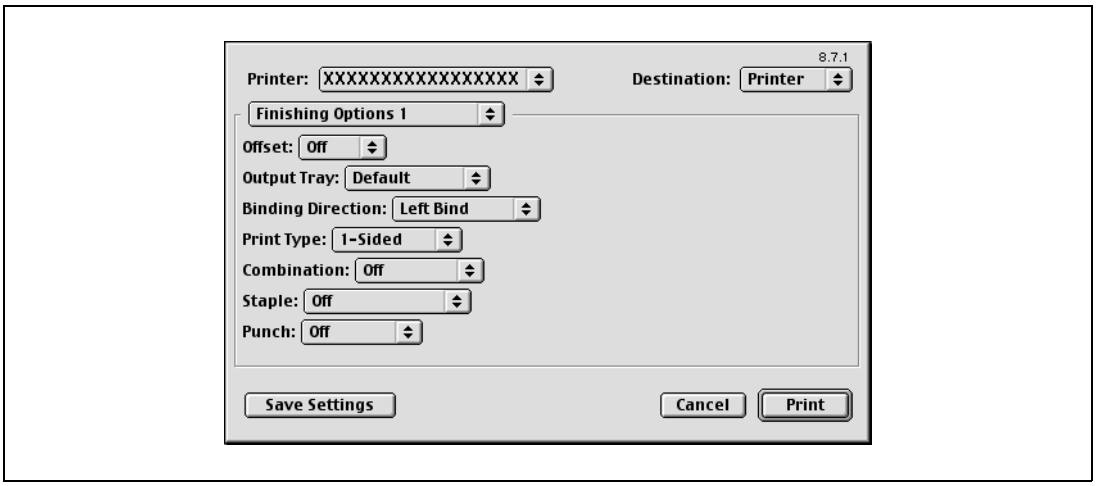
1 From the [File] menu, select "Print".

2 Select "Finishing Options 1 to 4".

3 Specify settings for the following:

- Offset: Specifies offset.
- Output Tray: Selects the output tray.
- Binding Direction: Specifies the binding position.
- Print Type: Performs duplex 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: Stops printing temporarily after part 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 grayscale.
- Glossy Mode: Prints using a gloss finish.
- Color Settings: Prints with a quality suitable for the original document.
- Color Matching (Text): Adjusts the color quality of the text in a document.
- Pure Black (Text): Specifies whether to enable grayscale of the text in a document.
- Screen (Text): Specifies screening of the text in a document.
- Color Matching (Photo): Adjusts the color quality of photos in a document.
- Pure Black (Photo): Specifies whether to enable grayscale of photos in a document.
- Screen (Photo): Specifies screening of photos in a document.

– Smoothing (Photo): Specifies screening of photos in a document.
– Color Settings (Graphic): Adjusts the color quality of a chart and graph in a document to the text or photo settings.
– Smoothing (Graphic): Adjusts the smoothing process of a chart and graph in a document to the text or photo settings.



Reminder

The staple function is available only when the optional finisher is installed.

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

d-Color MF550: The folding function is available only when optional finisher FS-608 is installed.

d-Color MF450: The folding function is available only when optional saddle stitcher is installed.

8.4 Setting options

You can specify the options installed on this machine so that they can be used from the printer driver.

...

Reminder

If the installed options on this machine are not set from "Installable Options", the option function cannot be used with the printer driver. When installing options, be sure to make the proper settings.

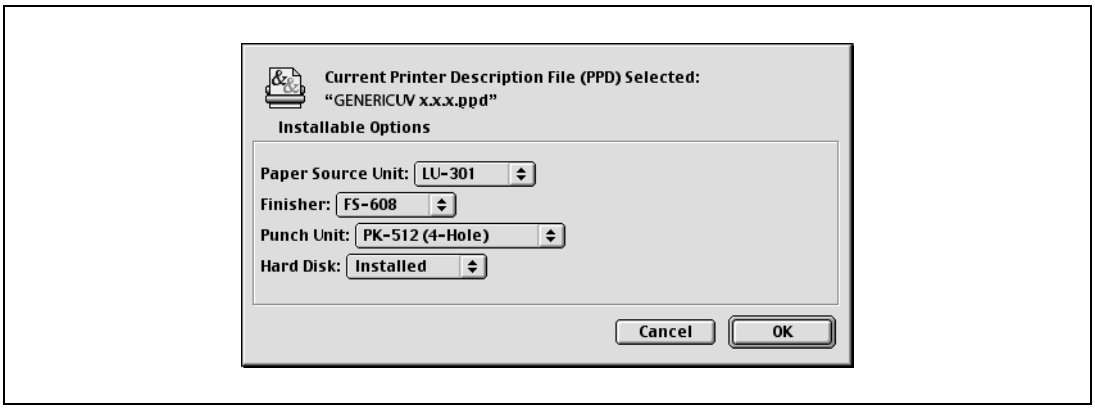
1 On the Apple menu, click "Chooser".

2 Select the printer name.

3 Click the [Create] button.

4 Click the [Configure] button.

The setting screen for adding options appears.



5 Select the option that is installed on this machine.

6 Click the [OK] button.

The Chooser window appears again.

7 Close the Chooser window.

...

Note

The option settings are displayed automatically the first time the printer driver is selected. For details, refer to "Selecting a printer" on page 3-9.

9 Setting up the PPD driver (Mac OS X)

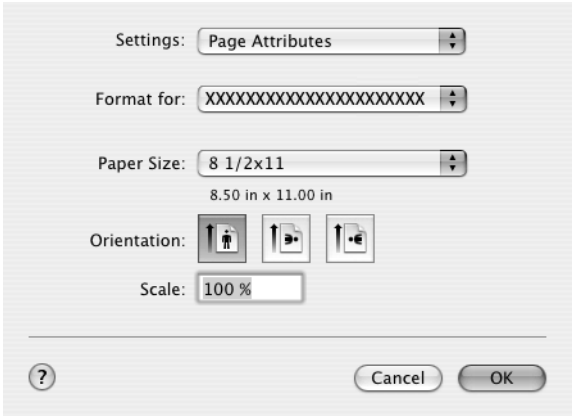
9 Setting up the PPD driver (Mac OS X)

9.1 Settings

The functions of this machine can be specified on the Page Setup and Print dialog boxes recalled from the application.

The settings can only be applied while using the application. When the application is quit, the settings return to their default settings.

Page setup dialog box



Page Setup items

Menu	Item	Function
Page Attributes	Paper Size	Specifies the paper size.
	Orientation	Specifies the orientation.
	Scale	Specifies the enlargement and reduction ratio.
Custom Paper Size*2	Paper Size (Page size)	Specifies any paper size.
	Printer Margins	Specifies the paper margins.

...

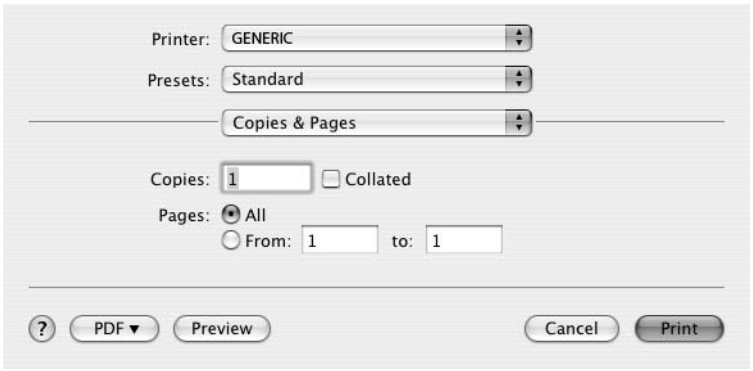
Note

Depending on the application, "Page Setup" may be displayed as "Paper Setup". In addition, you may have to select "Paper Setup" – "Options" from the "File" menu.

The dialog boxes differ depending on the application.

*The items indicated by *2 are displayed only in Mac OS 10.2 and Mac OS 10.3.*

Print dialog box



Print items

Menu	Item	Function
Copies & Pages	Copies	Specifies the number of copies to print.
	Collated	Prints multiple copies in sets.
	Pages	Specifies the print range to print.
Layout	Pages per Sheet	Specifies the number of pages to print on one page.
	Layout Direction	Specifies the document page order.
	Border	Specifies the borders around pages.
Output Options*2	Save as File	Saves data to a file.
	Format	Specifies the format for saving data to a file.
Scheduler*1	Print Document	Specifies the print time.
	Priority	Specifies the priority level.
Paper Handling*1	Reverse Page Order (Page Order)	Prints pages in the reverse order.
	Print	Selects the pages for printing.
	Destination paper size*3	Specifies the output paper size.
ColorSync*1	Color Conversion	Specifies the color conversion method.
	Quartz Filter	Specifies the color for printing.
Cover Page*1	Print Cover Page	Specifies whether to attach a cover page.
	Cover Page Type	Selects to print "Confidential" or other comments on the cover page.
	Billing Info	Enters the user information used for billing.
Error Handling	PostScript Errors	Specifies whether to print an error report when a PostScript error occurs.
	Tray Switching	Switches the paper source tray. (This function cannot be selected on this machine.)
Output Method	Collate	Prints multiple copies in sets.
	Offset	Specifies offset.
	Output Method	Specifies output methods, such as "Secure Print" and "Save in User Box".
	User Authentication	Select to perform user authentication and specify the user name and password.
	Account Track	Select to perform account track and specify the department name and password.

Menu	Item	Function
Layout/Finish	Print Type	Specifies duplex printing and booklet printing.
	Binding Direction	Specifies the binding position.
	Poster Mode	Prints one sheet of an original document divided on multiple pages.
	Overlap width line	Prints an overlap width line on split pages.
	Rotate 180	Prints the image rotated 180°.
	Image Shift	Prints by shifting the entire print image.
	Chapter	Specifies the page to be printed on the front side.
	Staple	Specifies stapling.
	Punch	Specifies hole punching.
	Saddle Stitch/Fold	Specifies to fold and saddle stitch a printed document.
	Paper Arrangement	Specifies the method for adjusting the binding position.
Paper Tray/Output Tray	Paper Tray	Selects the paper tray for printing.
	Paper Type	Selects the paper type for printing.
	Paper Settings for Each Tray	Specifies the paper type for each paper tray.
	Output Tray	Specifies the tray where to output the printed pages.
Cover Mode/Transparency Interleave	Front Cover	Attaches a front cover page.
	Back Cover	Attaches a back cover page.
	Transparency Interleave	Outputs and inserts interleaves when printing overhead projector transparencies.
Per Page Setting	Per Page Setting	Inserts paper between pages and switches the paper and tray for each page.
Stamp/Composition	Copy Protect	Prints a special pattern to prevent copying.
	Date/Time	Prints the date and time.
	Page Number	Prints the page number.
Quality	Select Color	Specifies the color for printing.
	Glossy Mode	Prints with a gloss.
	Color Settings	Prints with a quality suitable for the selected original document.
	Quality Adjustment	Adjusts the image quality. You can select "Simple" to adjust entire documents or "Detailed" to adjust the text, photos, and charts in the document.

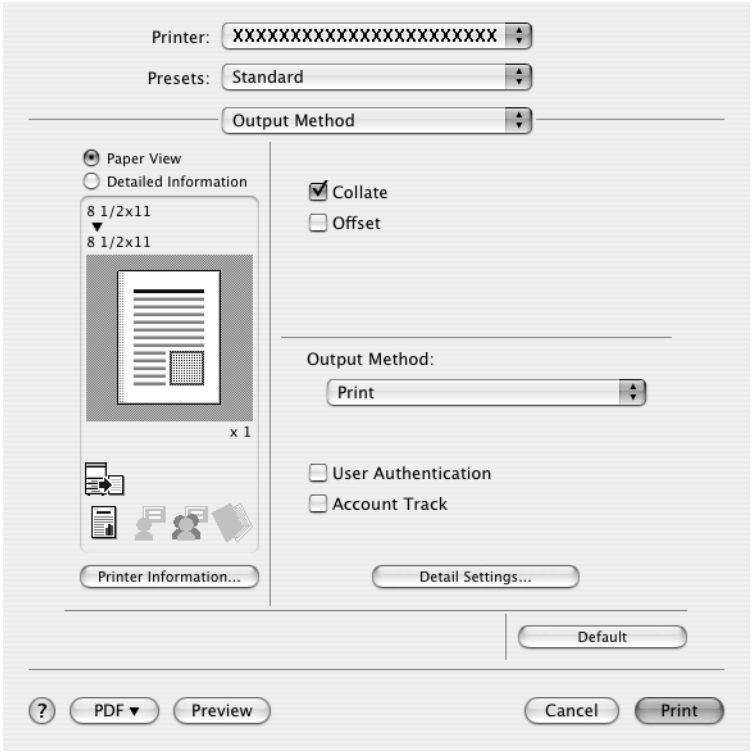
Note

The dialog boxes differ depending on the application.

*The items indicated by *1 are displayed only in Mac OS 10.3 and Mac OS 10.4.*
*The items indicated by *2 are displayed only in Mac OS 10.3.*
*The items indicated by *3 are displayed only in Mac OS 10.4.*

Common settings in the print dialog box

The following describes the common settings that are displayed by the specific operations (Output Method, Layout/Finish, Paper Tray/Output Tray, Cover Mode/Transparency Interleave, and Per Page Setting) for this machine.



Item	Function
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 the settings to their defaults, which were selected when the driver was installed.

Note

Click the [Acquire Device Information] button on the Printer Information dialog box to communicate with this machine and read the status of the settings specified on this machine. You cannot use this function if you are not connected to or able to communicate with this machine.

9.2 Page setup

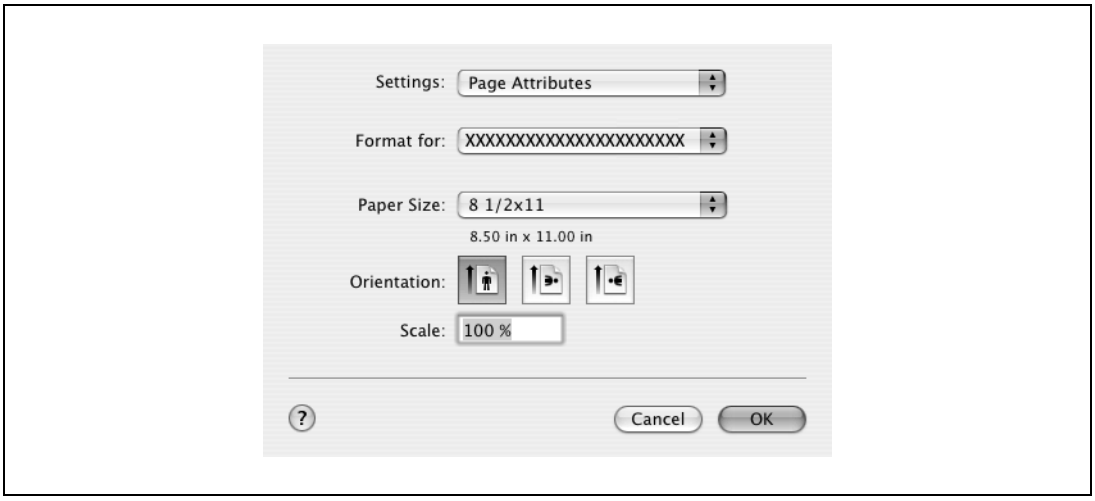
Page attributes (basic settings)

1 Select "Page Setup" or "Paper Setup" from the [File] menu.

2 Select "Page Attributes".

3 Specify settings for the following:

- Paper Size: Specifies the paper size.
- Orientation: Specifies the orientation.
- 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 Page Sizes first.

When "W" is selected for each standard paper size from the printer driver, the data can be centered and printed.

For example, if A4 size data is created and you want to center and print on A3 size paper, select "A4W" as the paper size and "Tray 1" or "Bypass Tray" as the paper tray from the printer driver.

To print, load A3 size paper in the tray ("Tray 1" or "Bypass Tray") of this machine that is specified from the printer driver, and then specify the settings described below from [Basic (Paper)] – [Change Tray Settings] – [Wide Paper] in the control panel.
Select "A4W".
Enter the A3 paper size (420.0 × 297.0) in [Change Size].

Custom page sizes

1 Select "Page Setup" or "Paper Setup" from the [File] menu.

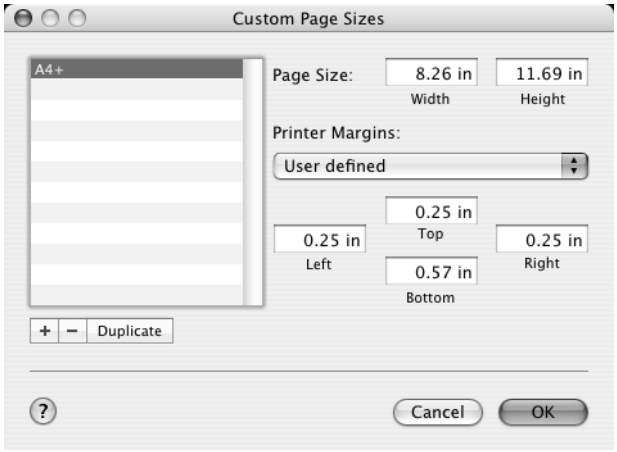
2 For Mac OS 10.4, select "Manage Custom Sizes" from the "Paper Size" drop-down list.
For Mac OS 10.2 and Mac OS 10.3, select "Custom Paper Size" from "Settings".

3 Click the [New] (Mac OS 10.2/10.3) or the [+] (Mac OS 10.4) button.

4 Enter the paper size name.

5 Specify settings for the following:

– Page Size (Paper Size): Specifies any paper size.
– Printer Margins: Specifies the paper margins.



6 For Mac OS X 10.4, continue with step 7.
For Mac OS 10.2 and Mac OS 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.

9.3 Printing

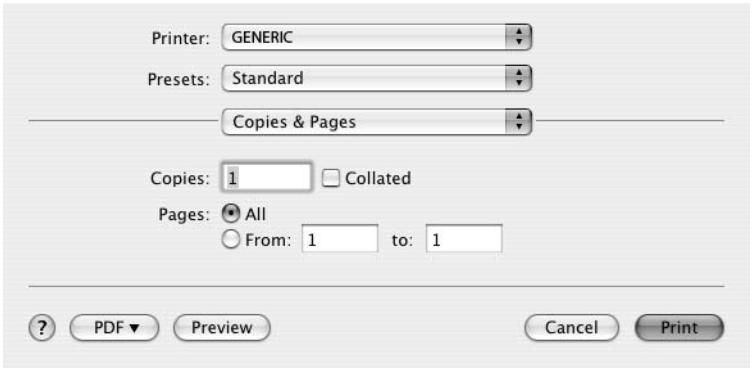
General settings

1 From the [File] menu, select "Print".

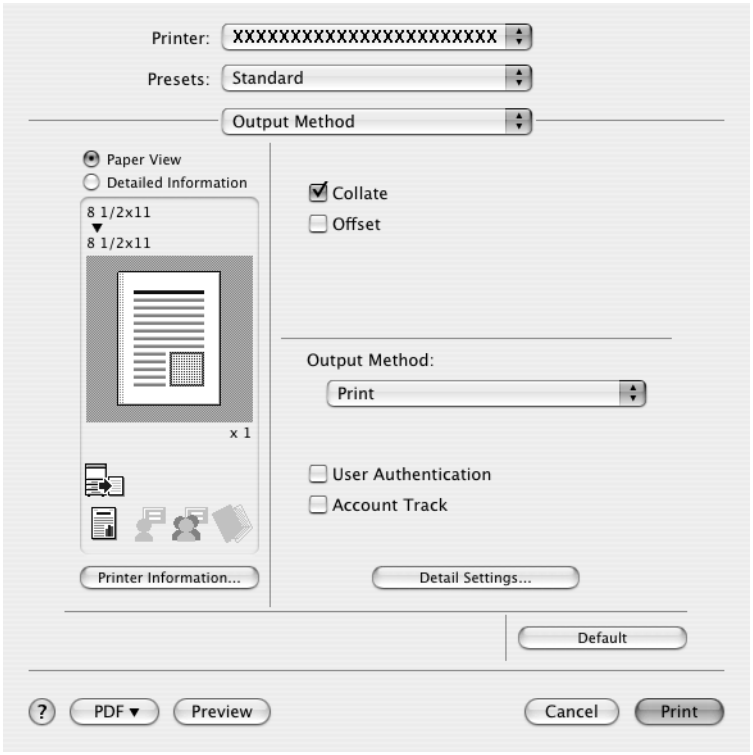
2 Select "Copies & Pages".

3 Specify settings for the following:

- Copies: Specifies the number of copies to print.
- Collated: Prints multiple copies in sets.
- Pages: Specifies the print range to print.



9.4 Output method



Collate: Prints multiple copies in sets.

Offset: Specifies offset.

Output Method: Specifies the output method. For details, refer to "Selecting the output method" on page 9-10.

User Authentication: Performs user authentication. For details, refer to "Specifying the user authentication settings" on page 9-12.

Account Track: Performs account track. For details, refer to "Specifying the account track settings" on page 9-13.

Detail Settings: Displays the functions for which the setting details have been specified.

Selecting the output method

Not only can you print directly, but you can select "Secure Print", which requires a password to print, or "Save in User Box", which saves data in the boxes that were created on the HDD.

From the "Output Method" drop-down list, select the output method.

Print: Prints immediately.

Secure Print: Saves the document to be printed in "Secure Print User Box" of this machine. When printing, you are required to enter the ID and password in this machine's control panel. Select when printing highly confidential documents.

Save in User Box: Saves the document to be printed in a 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 a part of the document has been printed, this machine stops printing temporarily. Select to avoid misprinting a large volume of print jobs.

Secure Print

If "Secure Print" was selected, enter the ID and password in the dialog box that appeared.

Note

By selecting the "Save Settings" check box, the specified settings are saved. 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.

The dialog box can be displayed by clicking the [Detail Settings] button. For details, refer to "Selecting the output method" on page 9-10.

To print, specify "Secure Print Document Box" from the Box mode in this machine's control panel, and then enter the ID and password. For details, refer to "Print job management" on page 11-36. For details on the box functions of this machine, refer to the User manual – Box Operations.

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

Save in User Box

When "Save in User Box" or "Save in User Box and Print" is selected, specify the file name to be saved and the box number for the save location in the dialog box that appears for entering the file name and box number.

Note

By selecting the "Save Settings" check box, the specified settings are saved. 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.

The dialog box can be displayed by clicking the [Detail Settings] button. For details, refer to "Checking the output method setting details" on page 9-14.

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

When password rules are enabled on this machine, specify the box that was created on this machine.

Proof Print

When a print job is sent, this machine stops printing temporarily after part of the document has been printed. The remaining print job is stored in this machine as a print job. When printing multiple copies, you can print the remaining part of the print job after checking the print results.

Note

To print the document, release the held document from the Job mode in this machine's control panel. For details, refer to "Print job management" on page 11-36.

Specifying the user authentication settings

If the user authentication settings have been specified on this machine, you must enter a user name and password.

Reminder

If a job is printed using a user name or password that is not a registered account on this machine, or if a job is printed without selecting a user under "User Authentication", the operation is not authenticated by this machine and the job is canceled.

If the user authentication settings are specified on this machine and the authentication operation restriction function is in mode 2, the applicable user is locked and cannot be accessed if the authentication information is not entered correctly.

1 Select the "User Authentication" check box.

The User Authentication dialog box appears.

2 Select "Recipient User", and then enter the user name and password.

3 Click the [OK] button.

Note

If this machine has been set to permit public users, the machine can be used without a user name and password.

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

By selecting the "Save Settings" check box, the specified settings are saved. 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.

The dialog box can be displayed by clicking the [Detail Settings] button. For details, refer to "Checking the output method setting details" on page 9-14.

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

If performing user authentication with an optional authentication unit (biometric type), enter the user name and password in step 2. For details, refer to the operation manual of the authentication unit (biometric type).

Specifying the account track settings

If the account track settings have been specified on this machine, you must enter a department name and password.

Reminder

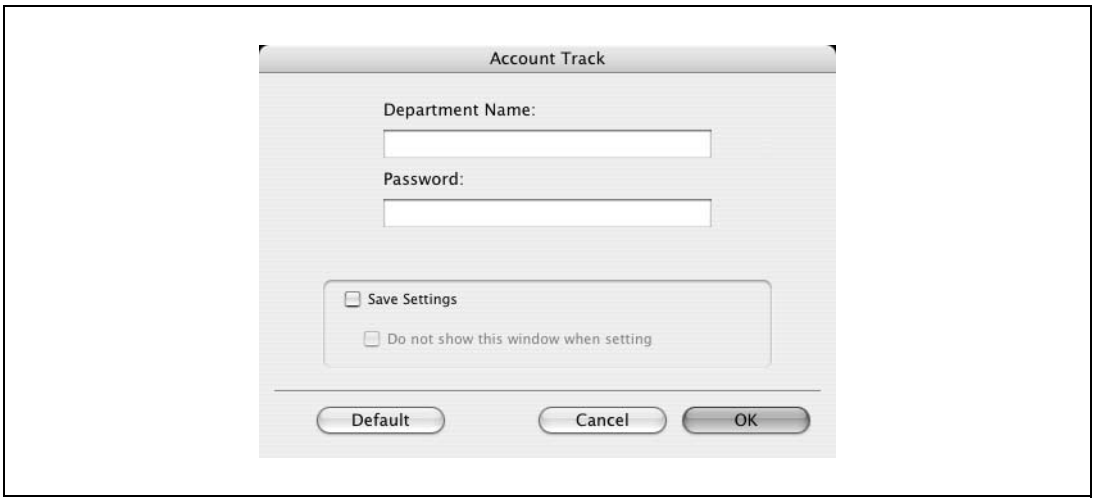
If a job is printed using a department name or password that is not a registered account on this machine, or if a job is printed without "Account Track" selected, the operation is not authenticated by this machine and the job is canceled.

When the account track settings are specified on this machine, the authentication operation restriction function is in mode 2, and the authentication information is not entered correctly, the applicable account is locked and cannot be accessed.

1 Select the "Account Track" check box.

The Account Track dialog box appears.

2 Enter the department name and password.



3 Click the [OK] button.

Note

By selecting the "Save Settings" check box, the specified settings are saved. 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.

The dialog box can be displayed by clicking the [Detail Settings] button. For details, refer to "Checking the output method setting details" on page 9-14.

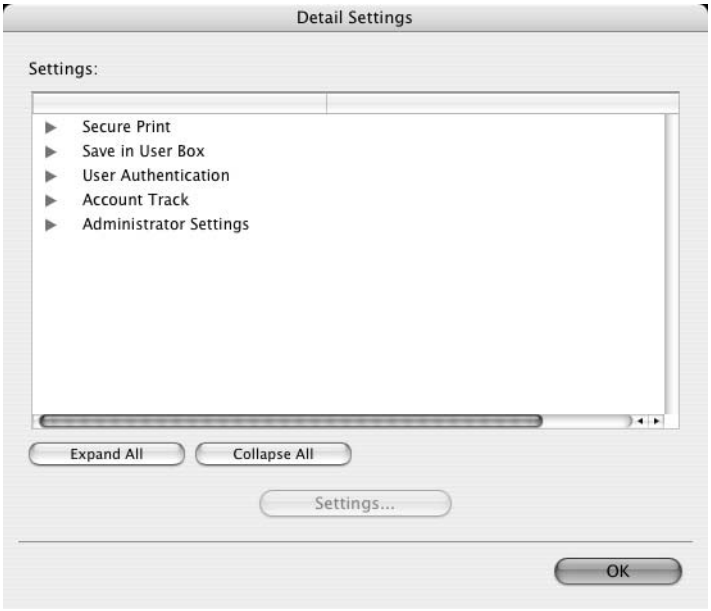
If printing is not allowed, printing cannot be performed even when used by a registered account. For details on the account track function, consult the administrator of this machine.

Checking the output method setting details

By clicking the [Detail Settings] button, the "Output Method" functions for which detailed 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.



Secure Print: Displays the Secure Print dialog box for entering an ID and password. This is the same dialog box that appears when "Secure Print" is specified from the "Output Method" drop-down list.

Save in User Box: Displays the Save in User Box dialog box for entering a file name and box number. This is the same dialog box that appears when "Save in User Box" or "Save in User Box and Print" is specified from the "Output Method" drop-down list.

User Authentication: Displays the User Authentication dialog box for entering a user name and password. This is the same dialog box that appears when the "User Authentication" check box is selected.

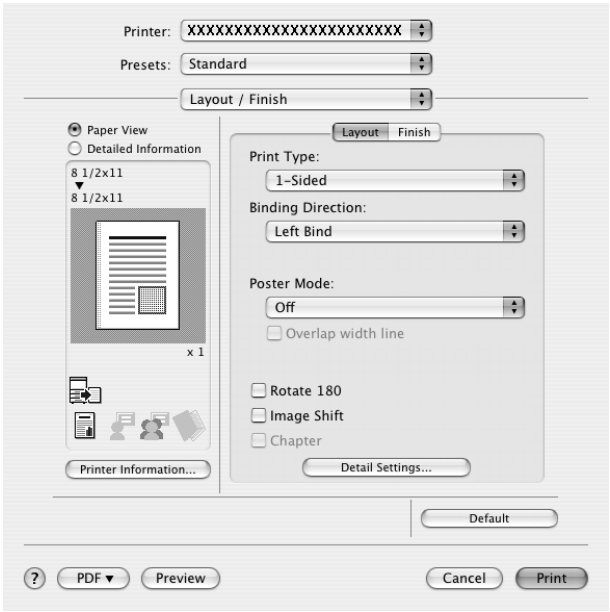
Account Track: Displays the Account Track dialog box for entering a department name and password. This is the same dialog box that appears when the "Account Track" check box is selected.

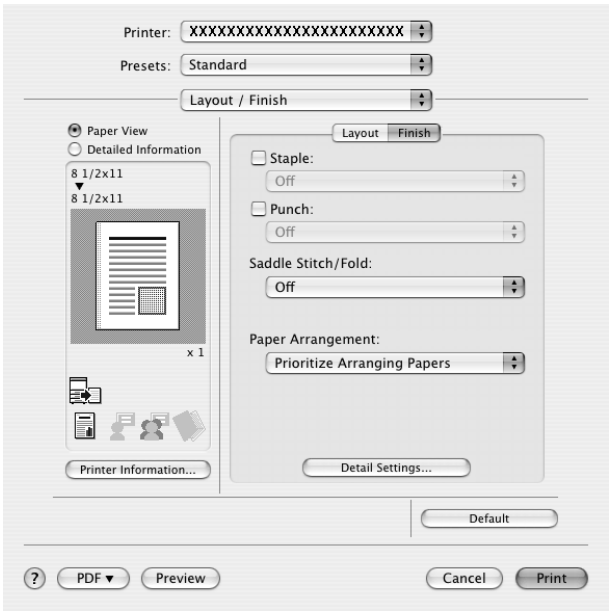
Administrator Settings: Displays the Administrator Settings dialog box in which you can select when the User Authentication dialog box or the Account Track dialog box is displayed.

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

9.5 Layout/Finish

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





Print Type: Specifies duplex printing and booklet printing.

Binding Direction: Specifies the binding position.

Poster Mode: Prints one page of an original document divided on multiple pages.

Overlap width line: Prints an overlap width line on split pages. This setting can be specified when "Poster Mode" is specified.

Rotated 180: Prints the image rotated 180°.

Image Shift: Prints by shifting the entire print image. For details, refer to "Shifting images" on page 9-17.

Chapter: Specifies the page to be printed on the front side. For details, refer to "Chapter" on page 9-18.

Staple: Specifies stapling. Select the "Staple" check box, and then specify the number of staples and the stapling position from the drop-down list.

Punch: Specifies hole punching. Select the "Punch" check box, and then specify the number of punched holes from the drop-down list.

Saddle Stitch/Fold: Specifies to saddle stitch or fold a printed document.

Paper Arrangement: Specifies the method for adjusting the binding position. If "Prioritize Arranging Papers" is selected, all pages can be processed to a suitable quality by this machine because the binding position is adjusted after all the print data is received. If "Prioritize Productivity" is selected, the printing process is performed efficiently because the binding position is adjusted while the data is printed simultaneously as it is being received.

Detail Settings: Displays the functions for which the setting details have been specified.

Reminder

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.

The staple function is available only when the optional finisher is installed.

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

d-Color MF550: The saddle stitch function and the fold function are available only when optional finisher FS-608 is installed.

d-Color MF450: The saddle stitch function and the fold function are available only when optional saddle stitcher is installed.

Note

The staple and hole-punch position changes according to the binding position specified from "Binding Direction".

The fold function cannot be specified when the staple, punch, or saddle stitch function is specified.

Shifting images

The entire print image of a document is shifted and then printed. You can use this function when you want to adjust the print position.

1 Select the "Image Shift" check box.

2 Select the shift direction and set the values.
By clearing the "Same value for Front and Back sides" check box, you can set separate values for the front and back sides.

Note

By selecting the "Save Settings" check box, the specified settings are saved. 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.

The dialog box can be displayed by clicking the [Detail Settings] button. For details, refer to "Checking the layout/finish setting details" on page 9-19.

Chapter

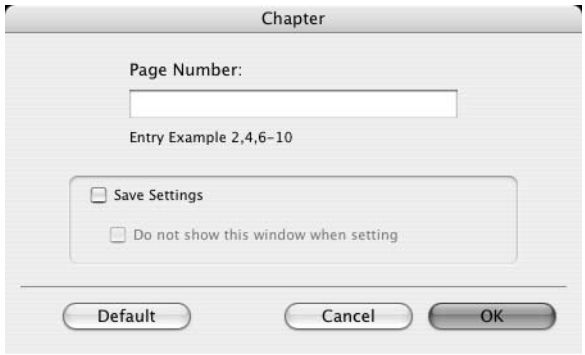
You can specify the page you want to print on the front side when duplex printing or booklet printing.

Even if a specified page comes up to be printed on the back side in duplex printing or booklet printing, the specified page is moved and printed on the front side.

1 Select the "Chapter" check box.

The dialog box for setting the detailed settings appears.

2 Enter the page number of the page you want to print on the front side.



Note

When entering multiple page numbers, separate the page numbers with commas such as "2, 4, 6" or enter a page range using a hyphen such as "6-10".

The "Chapter" check box can only be selected when the duplex printing or the booklet printing setting is enabled.

By selecting the "Save Settings" check box, the specified settings are saved. 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.

The dialog box can be displayed by clicking the [Detail Settings] button. For details, refer to "Checking the layout/finish setting details" on page 9-19.

Checking the layout/finish setting details

By clicking the [Detail Settings] button, the "Layout/Finish" functions for which detailed 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.

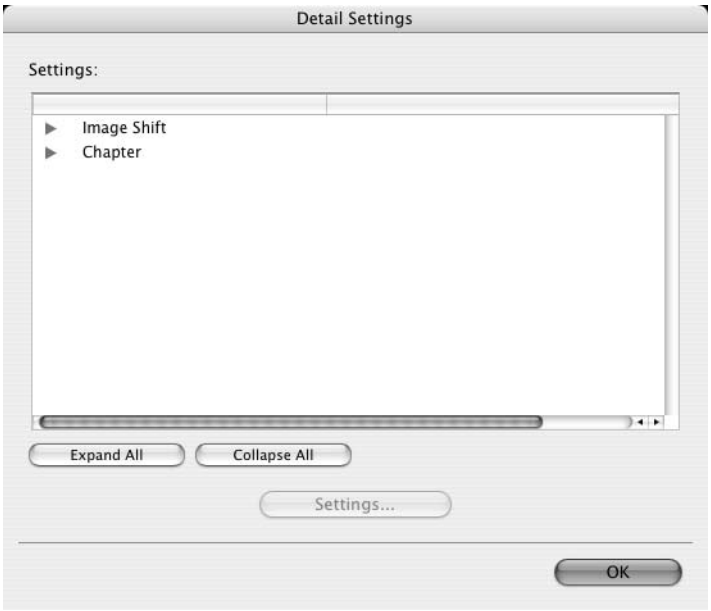
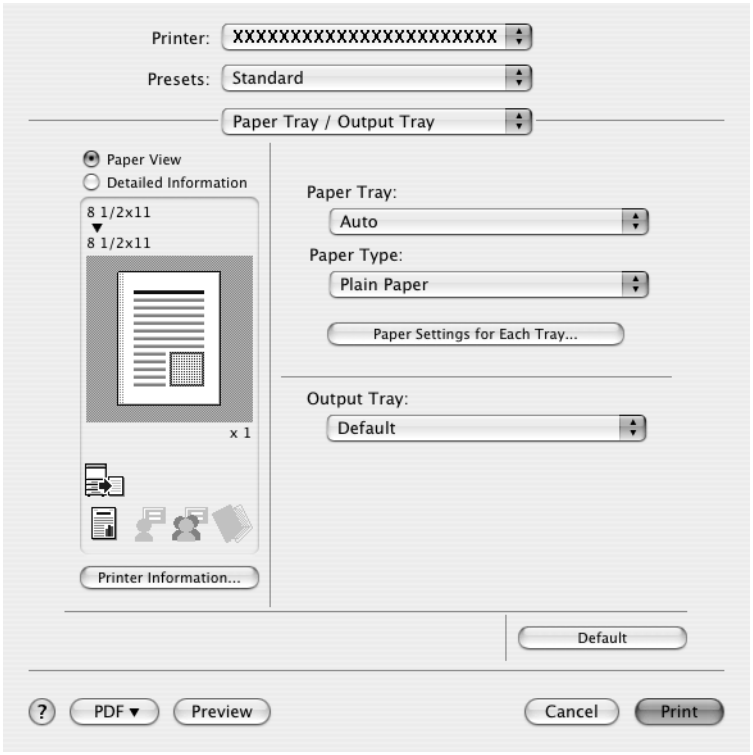


Image Shift: Displays the Image Shift dialog box. This is the same dialog box that appears when the "Image Shift" check box is selected.

Chapter: Displays the Chapter dialog box. This is the same dialog box that appears when the "Chapter" check box is selected.

9.6 Paper tray/Output tray



Paper Tray: Selects the paper tray for printing.

Paper Type: Selects the paper type for printing. This setting can be specified when the paper tray setting is set to "Auto".

Paper Settings for Each Tray: Specifies the paper type for each paper tray. For details, refer to "Specifying the paper type for a paper tray" on page 9-21.

Output Tray: Specifies the tray where to output the printed pages.

Note

If "Auto" is specified as the paper tray, you can select the paper type. If the paper tray setting is changed to a setting other than "Auto", the paper type is fixed to its preregistered setting. Specify a paper type by clicking the [Paper Settings for Each Tray] button.

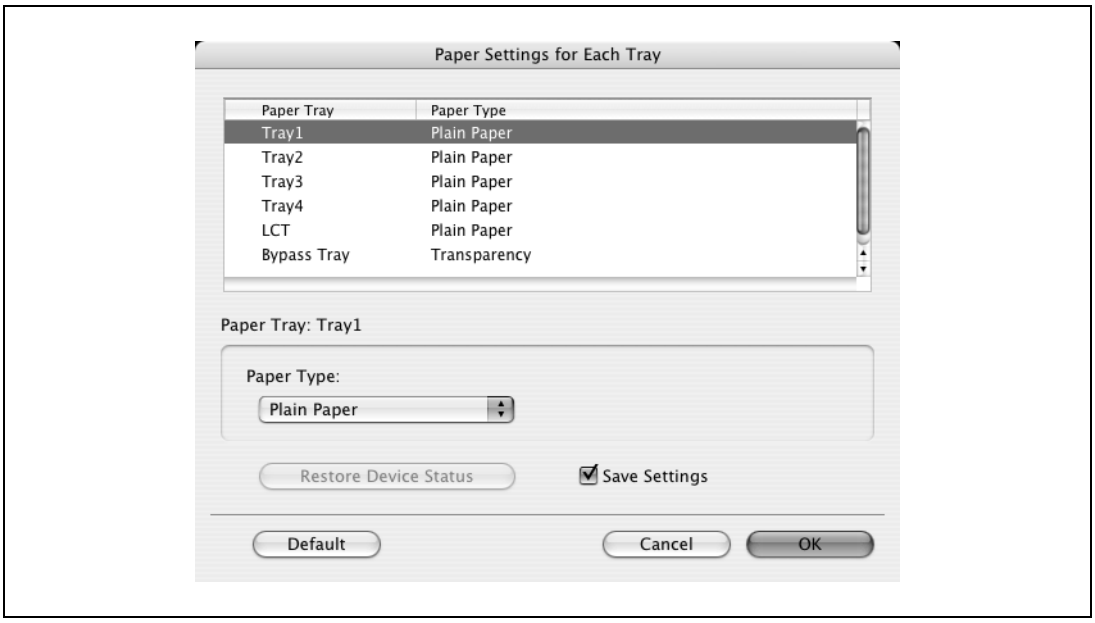
Specifying the paper type for a paper tray

You can specify the paper type for a paper tray.

1 Click the [Paper Settings for Each Tray] button.

The dialog box for setting the detailed settings appears.

2 Select the desired paper tray, and then select the paper type to be specified from the "Paper Type" drop-down list.



...

Note

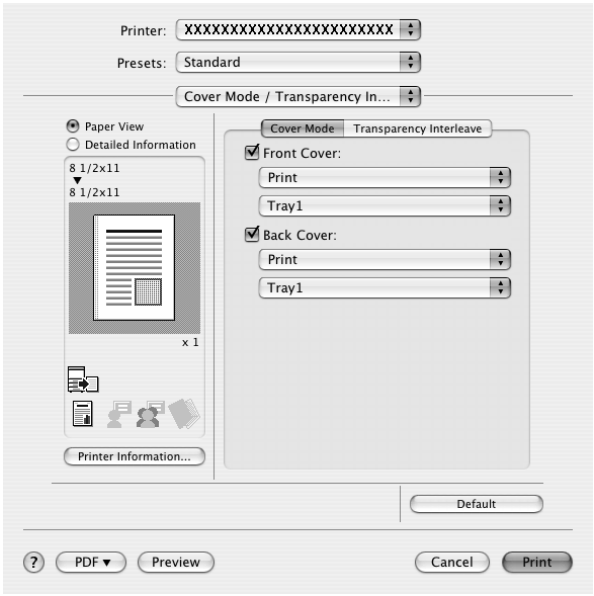
Click the [Restore Device Status] button to communicate with this machine and read the status of the settings specified on this machine. You cannot use this function if you are not connected to or able to communicate with this machine.

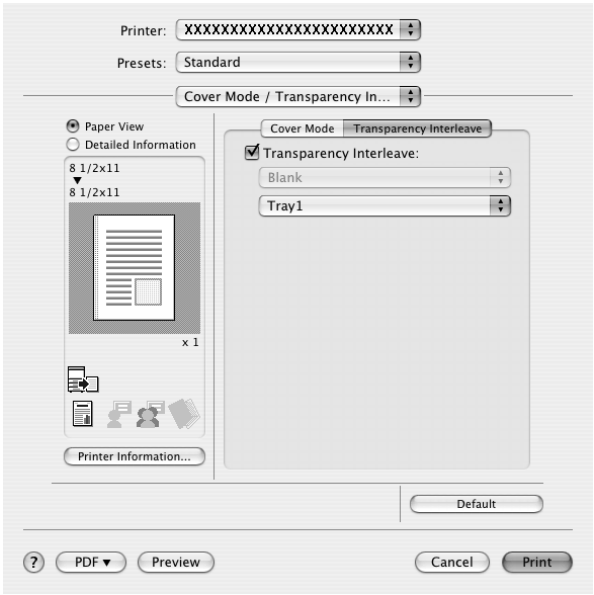
By selecting the "Save Settings" check box, the specified settings are saved.

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

9.7 Cover mode/Transparency interleave

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





Front Cover: Attaches a front cover page. Select this check box, and then select the print conditions from the upper drop-down list, and the paper tray that contains the loaded paper to be used from the lower drop-down list.

Back Cover: Attaches a back cover page. Select this check box, and then select the print conditions from the upper drop-down list, and the paper tray that contains the loaded paper to be used from the lower drop-down list.

Transparency Interleave: Outputs and inserts interleaves when printing overhead projector transparencies. Select this check box, and then select the paper tray that contains the loaded paper to be used from the lower drop-down list.

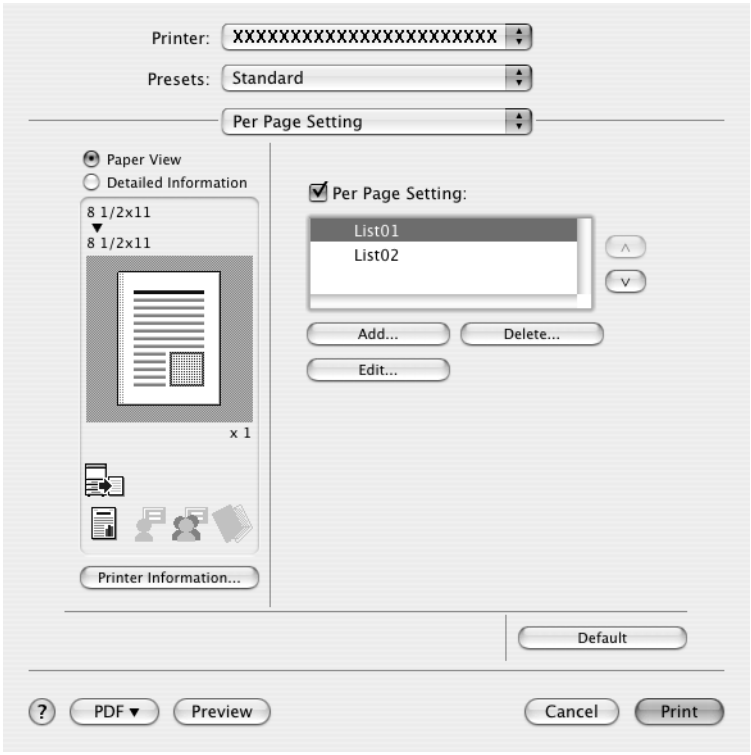
Note

To print on the front cover and back cover, select "Print". To only add a blank page, select "Blank".

The "Transparency Interleave" setting can be specified if "Transparency" is selected as the paper type.

9.8 Per page setting

You can specify the print type and paper tray for each page. This comes in handy when you want to change the paper tray during a print job when printing multiple pages. The settings are added to the per page setting list and can be used as necessary.



Per Page Setting: Enables the per page setting function.

List: Displays the list of the settings that have been added to Per Page Setting.

Add: Adds settings to Per Page Setting. For details, refer to "Adding and editing the settings in per page setting" on page 9-24.

Edit: Edits the settings in Per Page Setting. For details, refer to "Adding and editing the settings in per page setting" on page 9-24.

Delete: Deletes the settings in Per Page Setting.

▲/▼: Changes the order of the per page setting list.

Adding and editing the settings in per page setting

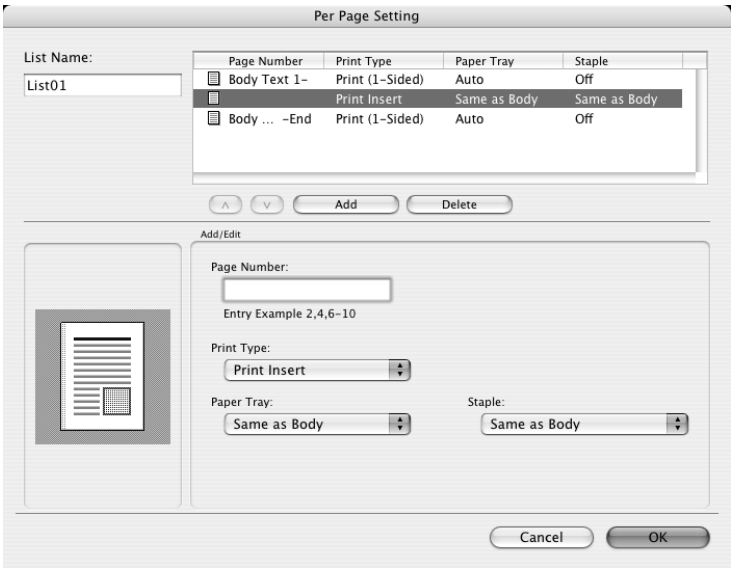
1 Select the "Per Page Setting" check box.

2 Click the [Add] button to add a new setting to the list.
To edit the list, select the desired name in the list, and then click the [Edit] button.

The Per Page Settings dialog box for specifying the print settings appears.

3 Click the [Add] button to add the setting to the list.

A new row for specifying the settings is added to the settings list.



4 Select the row that was added to the list, and then specify the print settings in "Add/Edit".

- Page Number: Enters the page number. When entering multiple page numbers, separate the page numbers with commas such as "2, 4, 6" or enter a page range using a hyphen such as "6-10".
- Print Type: Specifies Print Insert, Insert Blank Sheet, Print (1-Sided), and Print (2-Sided).
- Paper Tray: Specifies the paper tray.
- Staple: Specifies the number of staples and the stapling position.

5 Click the [OK] button.

...

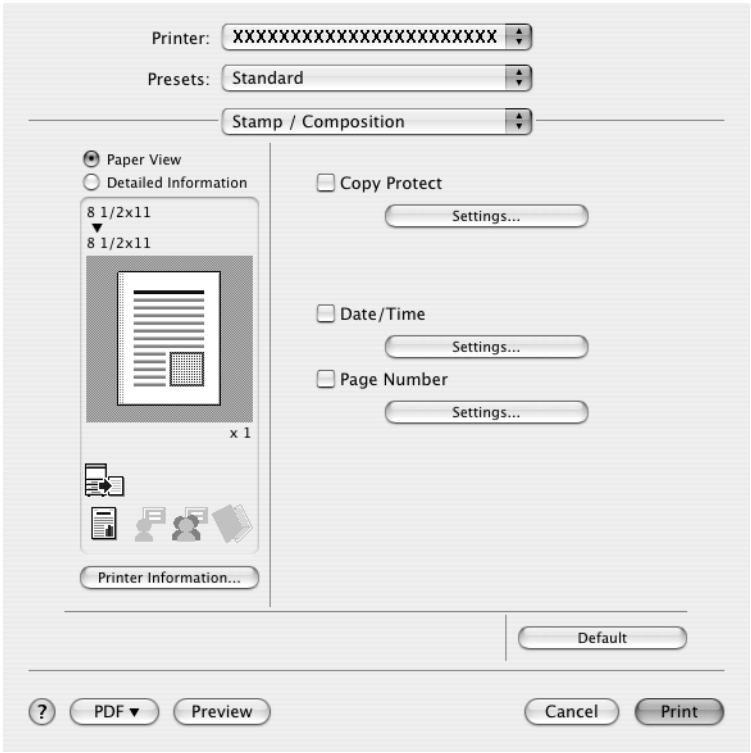
Note

To change existing print settings, select the desired row and change the settings. To delete existing print settings, select the desired row, and then click the [Delete] button.

Click the [▲] button or the [▼] button to change the page number starting with the smallest page number.

The name of the list can be changed in the "List Name:" text box.

9.9 Stamp/Composition



Copy Protect: Prints a special pattern to prevent copying.

Date/Time: Prints the date and time.

Page Number: Prints the page number.

Printing with copy protection

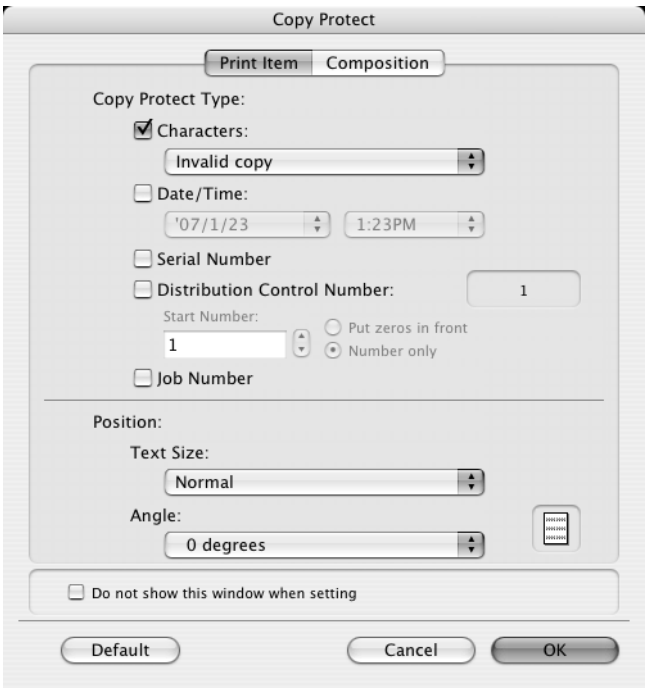
You can print a special pattern on an entire page while printing.

When copying a printed page, the characters embedded in the pattern appear to prevent an illegal copy.

1 Select the "Copy Protect" check box.

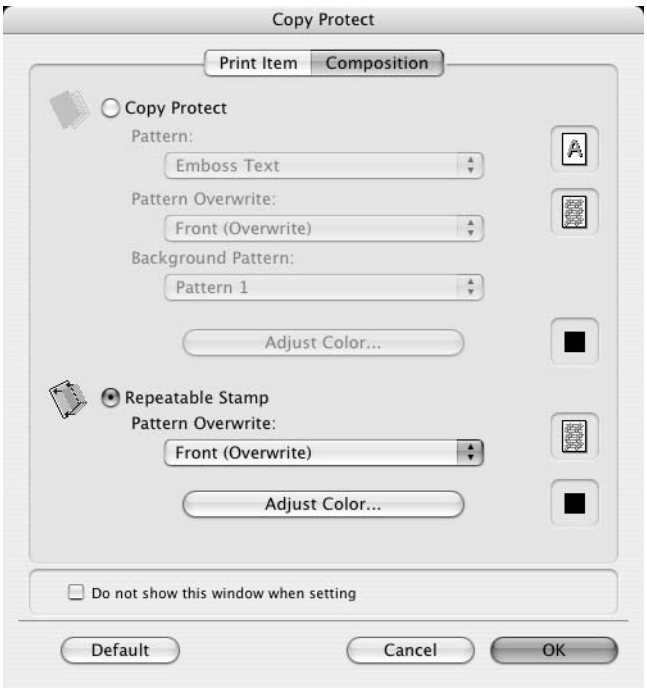
The Copy Protect dialog box appears.

2 Specify the copy protection type and the position.
Multiple print items can be specified.



- 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.
- Serial Number: Embeds the serial number of this machine in a pattern.
- Distribution Control Number: Embeds the number of copies in a pattern when printing multiple copies. The start number or the number of digits that are displayed 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.

3 Select the composition method for copy protection.
Select "Copy Protect" to specify the desired results when copying, or simply select "Repeatable Stamp". In addition, you can select the embedding conditions.



- Pattern: Specifies the embedding method of a pattern.
- Pattern Overwrite: Specifies the order for printing a pattern on the original document.
- Background Pattern: Specifies the pattern background.
- Adjust Color: Specifies the color of the pattern.

4 Click the [OK] button.

...

Note

If the "Do not show this window when setting" check box is selected, the dialog box does not appear when this function is specified. The dialog box can be displayed by clicking the [Settings] button.

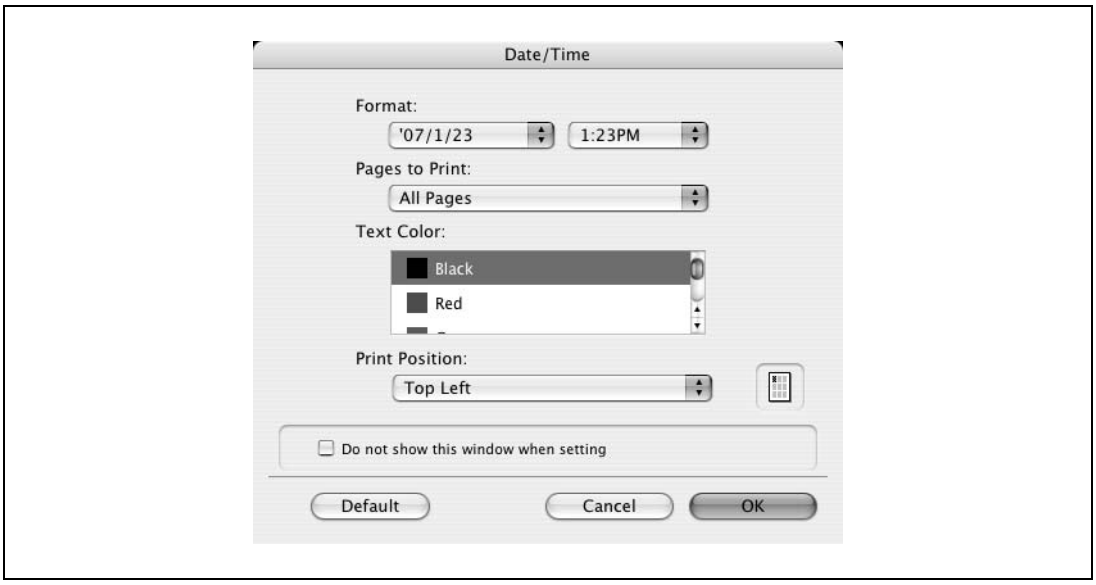
Printing the date and time

You can print the date and time on a document.

1 Select the "Date/Time" check box.

The Date/Time dialog box appears.

2 Specify the format and print position for the date and time.



- Format: Displays the format for the date and time to be printed.
- Pages to Print: Specifies the pages to print the date and time.
- Text Color: Specifies the text color to print.
- Print Position: Specifies the print position.

3 Click the [OK] button.

Note

If the "Do not show this window when setting" check box is selected, the dialog box does not appear when this function is specified. The dialog box can be displayed by clicking the [Settings] button.

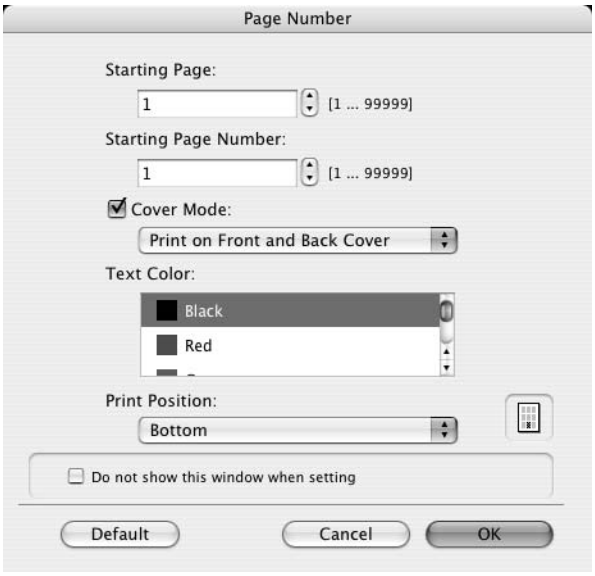
Printing the page numbers

You can print the date and page numbers on a document.

1 Select the "Page Number" check box.

The Page Number dialog box appears.

2 Specify the format and print position for the printing the page number.



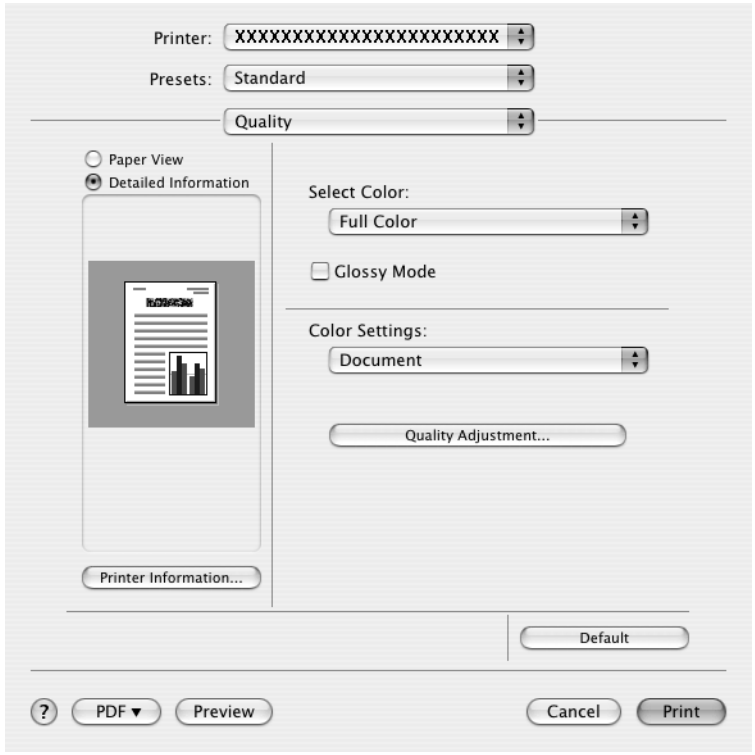
- Starting Page: Specifies the page to start printing the page number.
- Starting Page Number: Specifies the start number for printing the page number.
- Cover Mode: If cover pages are attached, specifies whether to print the page number on the front cover page or the back cover page.
- Text Color: Specifies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

3 Click the [OK] button.

Note

If the "Do not show this window when setting" check box is selected, the dialog box does not appear when this function is specified. The dialog box can be displayed by clicking the [Settings] button.

9.10 Quality



Select Color: Specifies whether to print in color or grayscale.

Glossy Mode: Prints with a gloss.

Color Settings: 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. The text, photos, and charts of each object in a document can be adjusted.

9.11 Setting options

You can specify the options installed on this machine so that they can be used from the printer driver.

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Reminder

If the installed options on this machine are not set from "Installable Options", the option function cannot be used with the printer driver.

When installing options, be sure to make the proper settings.

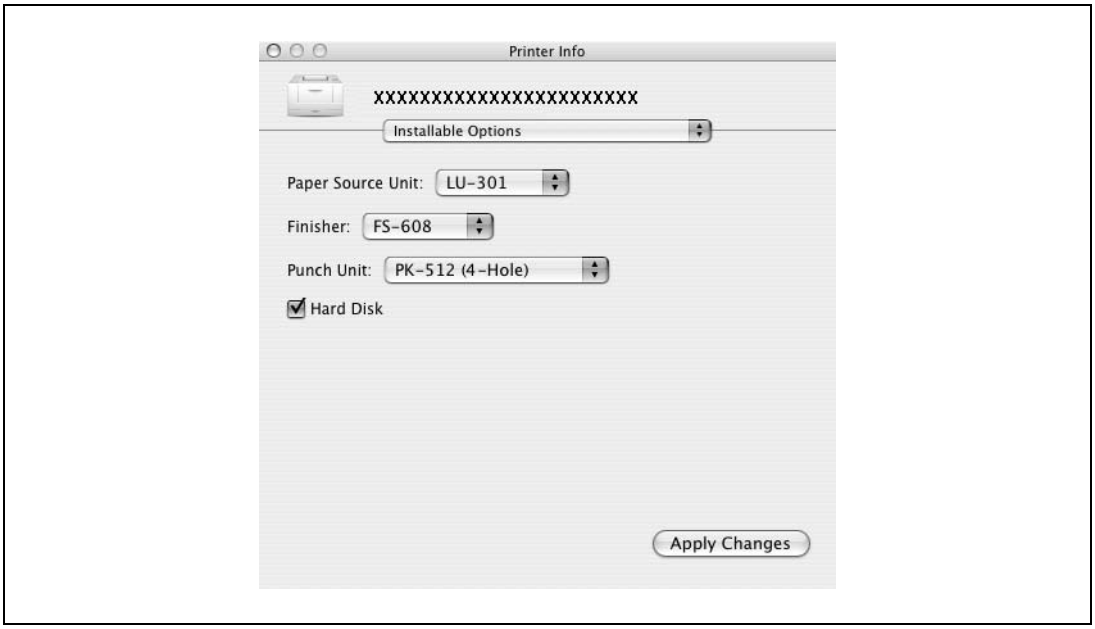
1 Open Printer Setup Utility or Print Center, located in "Applications" – "Utilities" of "Hard Disk" and select this machine.

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 click to close the Printer Info dialog box.

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Note

The information that is displayed differs depending on the options that are installed.

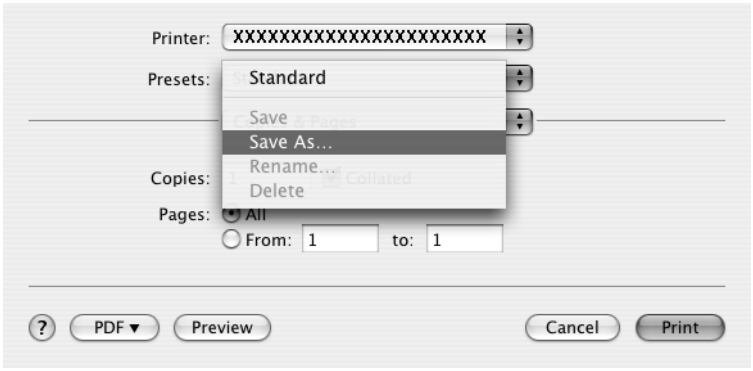
9.12 Saving the driver settings

For Mac OS X drivers, you can save the setting values of the changed driver and recall them as necessary.

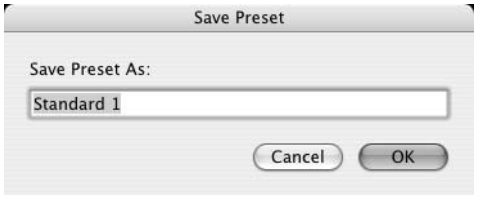
Saving the driver settings

1 Change the driver settings in "Copies & Pages" and "Layout".

2 From "Presets", click "Save as".



3 Enter the preset name in the "Save Preset As" text box.



4 Click the [OK] button. The settings are added to the preset settings.

Recalling the settings

Select "Presets" from the Print dialog box to recall the settings.

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

Changing the settings

1 Select "Presets" from the Print dialog box to change the settings.

2 Change the driver settings in "Copies & Pages" and "Layout".

3 From "Presets", click "Save".
To delete, click "Delete". To change the name, click "Rename".

The preset settings are changed.

10 Setting up the fax driver (Windows)

10 Setting up the fax driver (Windows)

10.1 Sending a fax

Fax operations

Reminder

To use the fax function, you must install the optional fax kit onto this machine. In addition, you must enable the fax kit on the Configure tab after installation. For details, refer to "Specifying the configure tab settings" on page 10-21.

Note

For details on the fax function of this machine, refer to the User manual – Fax Operations (Option).

1 Create the data you want to send using any application.

2 From the [File] menu, select "Print".

3 From "Printer Name", select "GENERIC 45C-1 FAX" ("GENERIC 45C-2 FAX" on d-Color MF450).

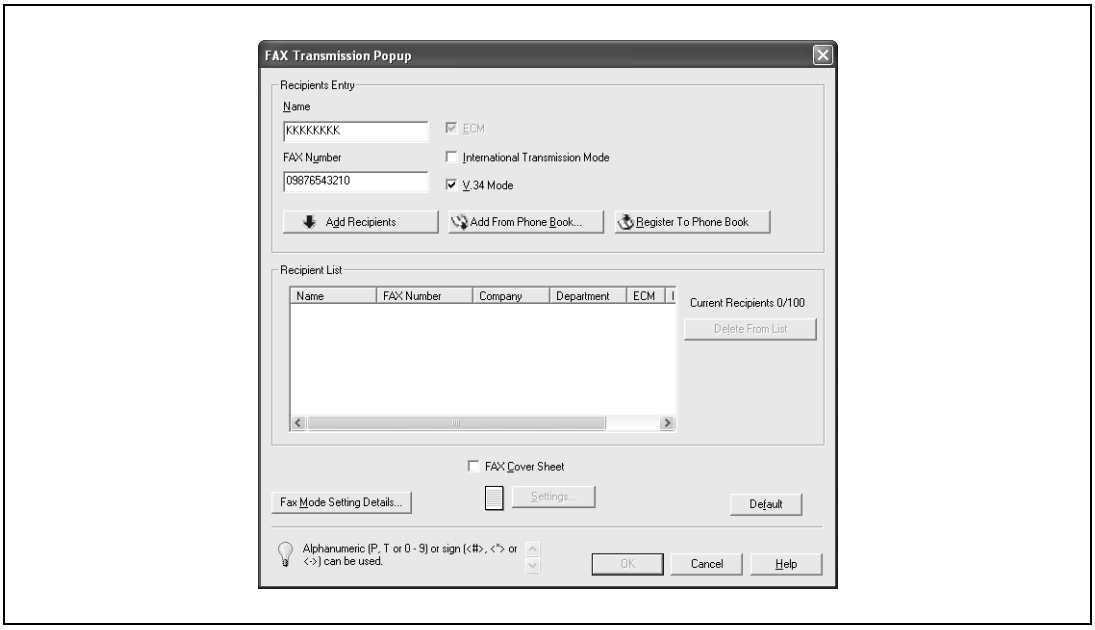
4 Click the [Preferences] button or the [Properties] button to change the fax driver settings as necessary.

– By clicking the [Preferences] button or the [Properties] button in the Print dialog box, you can specify the settings of each model in the FAX Printing Preferences dialog box that appears. For details, refer to "Settings" on page 10-10.

5 Click the [Print] button.

The FAX Transmission Popup dialog box appears.

6 Enter the recipient's name and fax number in the "Name" and "FAX Number" text boxes.



7 Click the [Add Recipients] button.

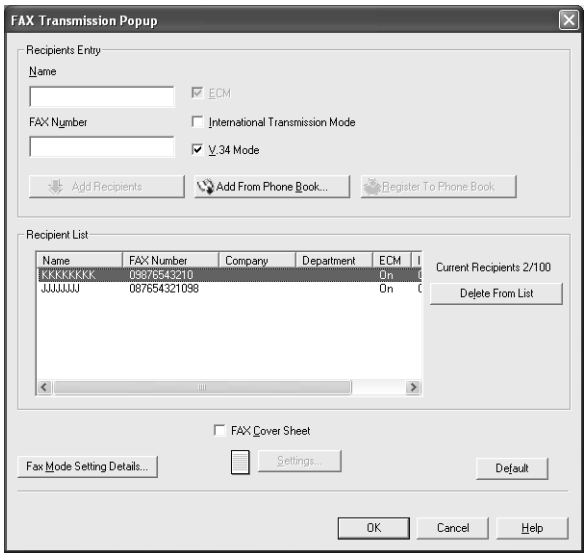
– To add multiple recipients, repeat steps 6 and 7. Up to 100 recipients can be added.
– To delete a recipient from the list, click the [Delete From List] button.

8 If necessary, click the [Fax Mode Setting Details] button to specify the fax mode setting details, or select the "FAX Cover Sheet" check box to create a fax cover sheet.

– For details, refer to "Specifying the transmission settings" on page 10-6, or "Creating a fax cover sheet" on page 10-7.

9 Click the [OK] button.

The fax data is sent via this machine.



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Note

Up to 80 characters can be entered in the "Name" text box.

*Up to 38 characters (numbers 0 through 9, hyphens (-), #, *, P, and T) can be entered in the "FAX Number" text box. To send a fax overseas, be sure to enter the country code first.*

Change the transmission mode as necessary.
ECM: Specifies the ECM (Error Correction Mode). If the "V.34 Mode" check box is selected, the "ECM" check box cannot be cleared.
International Transmission Mode: Slows the speed when sending faxes overseas. Select this check box if errors occur when sending faxes overseas.
V.34 Mode: Specifies the Super G3 fax mode. For normal fax operations, leave this check box selected. Clear it only if it is not possible to transmit in the recipient's mode.

The fax numbers that are registered in the phone book can be specified by clicking the [Add From Phone Book] button. For details, refer to "Selecting a recipient from the phone book" on page 10-5.

The names and fax numbers that were entered can be added to the phone book's "Simple Entry" folder by clicking the [Register To Phone Book] button.

Selecting a recipient from the phone book

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Note

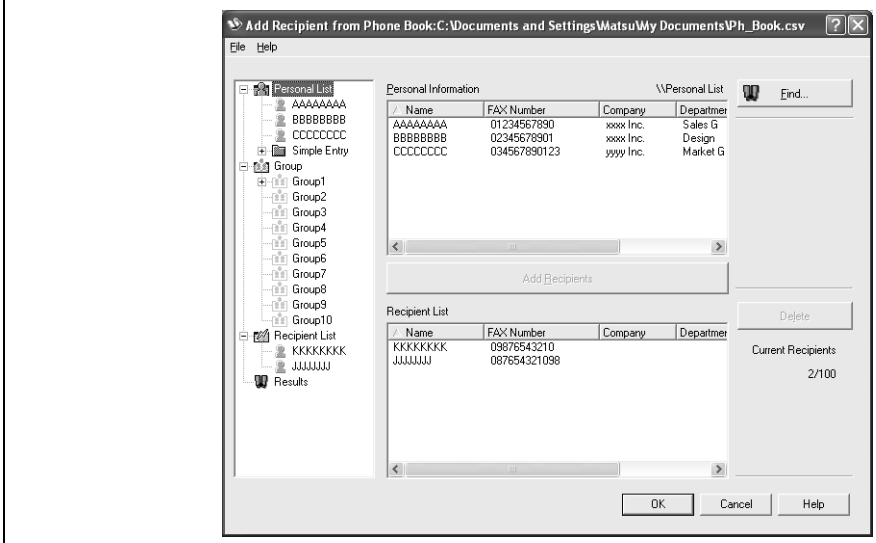
To use the phone book, the names and fax numbers of the recipients must be added to the phone book first. For details, refer to "Adding a recipient to the phone book" on page 10-22.

1 When sending a fax, click the [Add From Phone Book] button in the FAX Transmission Popup dialog box.

– To open the FAX Transmission Popup dialog box, follow steps 1 to 5 under "Fax operations". For details, refer to "Fax operations" on page 10-3.

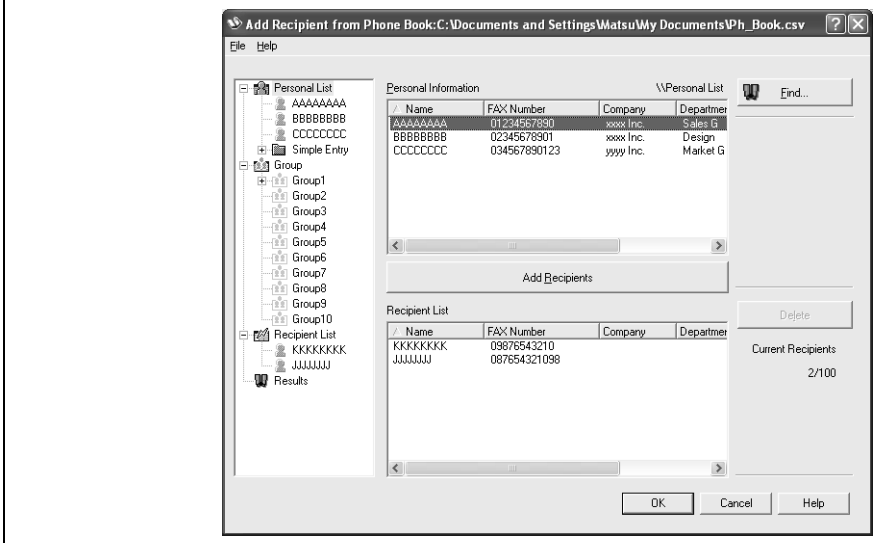
2 Select "Personal List" or "Group" from the list on the left side of the dialog box to display the desired recipient in "Personal Information".

– Click the [Find] button to specify the conditions to search for a recipient.



3 Select the name of the recipient you want to send a fax to, and then click the [Add Recipients] button.

– Multiple recipients can be added in the same way. Up to 100 recipients can be added.
– To delete a recipient, click the [Delete] button.



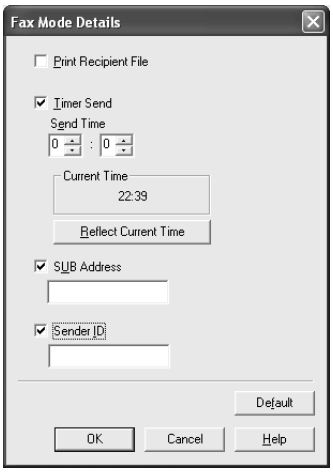
– If recipients have been added to a group, all the members of the group can be added to "Recipient List" (group transmission) by selecting a group name, then clicking the [Add Recipients] button.

4 Click the [OK] button.

The names that were specified are added to "Recipient List" and the FAX Transmission Popup dialog box appears again.

Specifying the transmission settings

When sending a fax, you can specify the transmission settings in the Fax Mode Details dialog box that appears when the [Fax Mode Setting Details] button is clicked in the FAX Transmission Popup dialog box.



Print Recipient File: Prints the document after a fax was sent.

Timer Send: Sets the transmission time. By clicking the [Reflect Current Time] button, the current time set on the computer is displayed in the "Send Time" boxes.

SUB Address: Specifies the sub address for sending confidential faxes using F-codes.

Sender ID: Specifies the sender ID for sending confidential faxes using F-codes.

Note

When using Timer Send, check that the time set on the computer is synchronized with the time on this machine. If the transmission time is earlier than the current time of this machine, the fax is sent the next day.

*If sending confidential faxes using F-codes to another fax model, enter the sub address and sender ID in the "SUB Address" and the "Sender ID" text boxes. Up to 20 characters (numbers 0 through 9) can be entered in the "Sub Address" text box. Up to 20 characters (numbers 0 through 9, #, and *) can be entered in the "Sender ID" text box. For the details on the sub address and the sender ID, refer to the User manual – Fax Operations (Option).*

Creating a fax cover sheet

When sending a fax, you can attach a cover sheet to the fax message by selecting the "FAX Cover Sheet" check box in the FAX Transmission Popup dialog box. You can edit the cover sheets from the FAX Cover Sheet Settings dialog box that appears by clicking the [Settings] button in the Fax Transmission Popup dialog box.

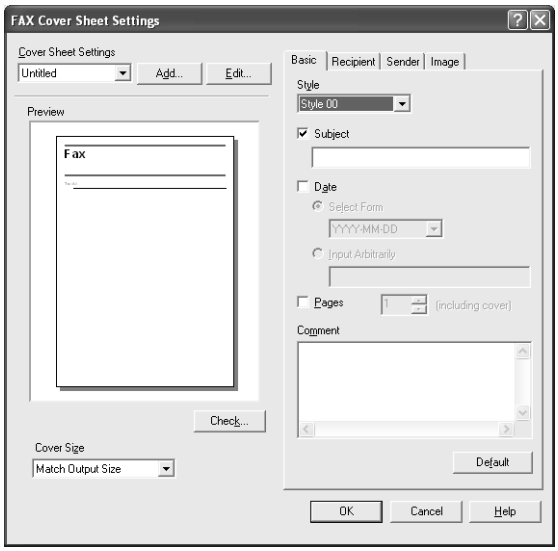
In the FAX Cover Sheet Settings dialog box, you can change the settings on the Basic, Recipient, Sender, or Image tab by switching between each screen.

1 Select the "FAX Cover Sheet" check box in the FAX Transmission Popup dialog box.

2 Click the [Settings] button.

The FAX Cover Sheet Settings dialog box appears.

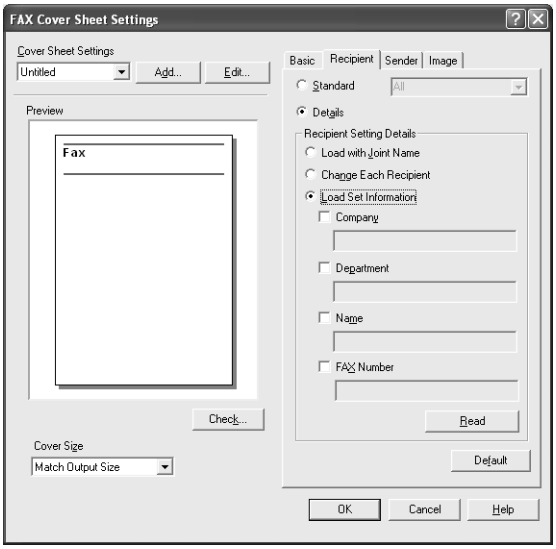
3 Select the size of the cover sheet from the "Cover Size" drop-down list.



4 On the Basic tab, specify the format of the cover sheet and subject of the fax.

- Style: Selects the format design of the cover sheet.
- Subject: Enters the subject of the fax to be sent. Up to 64 characters can be entered in the "Subject" text box.
- Date: Specifies the date. Select a format or enter any format. If entering a format, up to 20 characters can be entered in the "Input Arbitrarily" text box.
- Pages: Specifies the number of pages to be sent.
- Comment: Enters the text to be displayed in the comment box. Up to 640 characters can be entered in the "Comment" text box, and returns are converted into two characters.

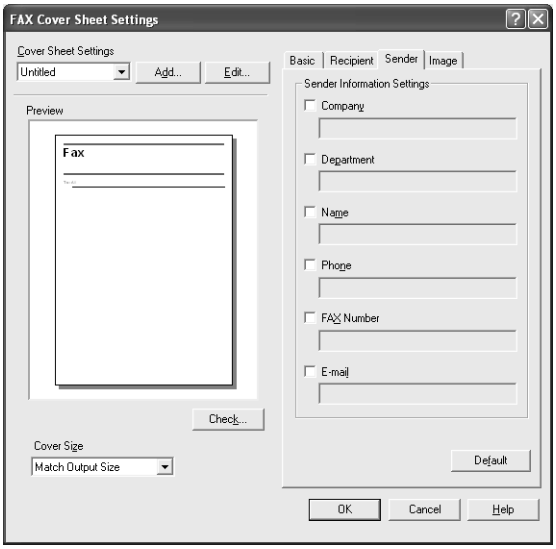
5 Specify the recipient information on the Recipient tab.



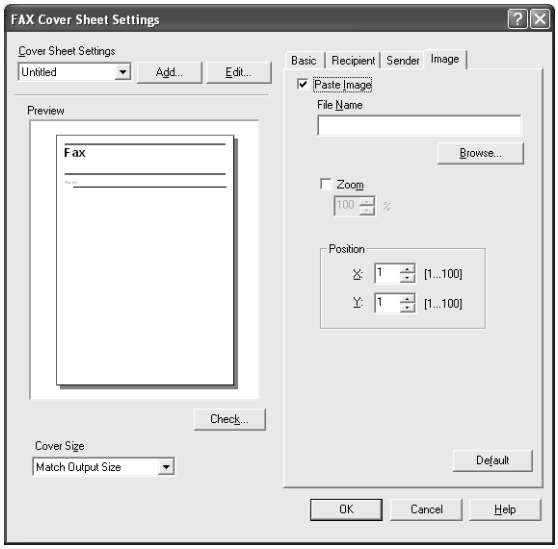
- Standard: Specifies standard text.
- Details: Specifies the details described under "Recipient Setting Details".
- Load with Joint Name: Lists the recipient with joint names. The items listed are the items shown under "Recipient List" on the FAX Transmission Popup dialog box.
- Change Each Recipient: Changes the description for each recipient. The items listed are the items shown under "Recipient List" on the FAX Transmission Popup dialog box.
- Load Set Information: Lists the information that was entered in the "Company", "Department", "Name", and "FAX Number" text boxes.
- Read: Reads the information of the first recipient to the information box.
- Up to 40 separate cover sheets can be created if "Change Each Recipient" is selected.
- Even if "Change Each Recipient" is selected, the first recipient is displayed as a sample in "Preview".
- If "Load with Joint Name" and "Change Each Recipient" are selected, the names that were added are entered, but titles cannot be added.
- If a recipient is not specified on the FAX Transmission Popup dialog box, "Load Set Information" cannot be selected. In addition, it cannot be selected on the fax tab in the FAX Printing Preferences dialog box as well.

6 Specify the sender information on the Sender tab.

Select the check box of the information to be listed, and then enter the information.



7 To place graphics such as a company logo or map on a cover sheet, specify the image file on the Image tab.
Select the "Zoom" check box to specify the size, and set the position with the values in the "X" and "Y" boxes.



8 Check the specified settings.
Click the [Check] button to check an enlarged preview image.

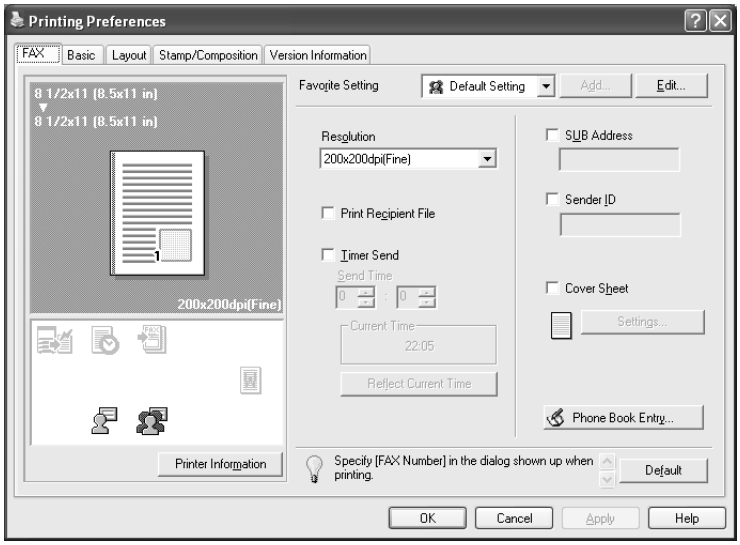
– Click the [Add] button to save the cover sheet settings. The settings can then be recalled from the "Cover Sheet Settings" drop-down list the next time a cover sheet is used.

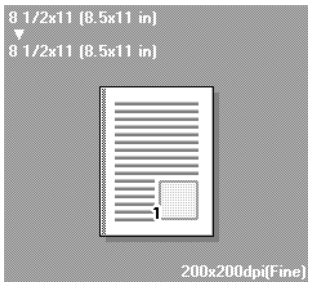
9 Click the [OK] button.

10.2 Settings

Common settings

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



Button	Function
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 settings to their defaults, which were selected when the driver was installed.
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. 

...

Reminder

To enable any installed options, you must specify the Device Option settings. For details, refer to "Specifying the configure tab settings" on page 10-21.

Faxtab

Item	Function
Resolution	Specifies the fax resolution.
Print Recipient File	Prints the document after the fax was sent.
Timer Send	Sets the transmission time. By clicking the [Reflect Current Time] button, the current time set on the computer is displayed in the "Send Time" boxes.
SUB Address	Specifies the sub address for sending confidential faxes using F-codes.
Sender ID	Specifies the sender ID for sending confidential faxes using F-codes.
Cover Sheet	Specifies the fax cover sheet.
Phone Book Entry	Edits the phone book.

Basic tab

Item	Function
Original Orientation	Specifies the orientation of the original document.
Original Size	Specifies the size of the original document.
Paper Size	Specifies the output paper size of the recipient. Automatically enlarges or reduces when the Original Size setting is changed.
Zoom	Specifies the enlargement and reduction ratio.
[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.

Layout tab

Item	Function
Combination	Prints multiple pages on one page, or prints one sheet of an original document divided on multiple pages. Details can be specified by clicking the [Combination Details] button.
Skip Blank Pages	Does not print blank pages in the data.

Stamp/Composition tab

Item	Function
Watermark	Prints a watermark (text stamp) on the page being printed. Watermarks can be added, changed, or deleted by clicking the [Edit] button.

Configure tab

Item	Function
Device Option	Specifies the status of the 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" drop-down list.
Acquire Device Information	Communicates with this machine to read the status of the installed options.
Acquire Settings	Specifies the status of the connection that executes getting the option information.

Note

*To display the Configure tab in Windows 2000/XP/NT 4.0/Server 2003, right-click the "*GENERIC 45C-1 *FAX" ("*GENERIC 45C-2 *FAX" on d-Color MF450) icon, and then click "Properties".*

You cannot use the [Acquire Device Information] function if you are not connected to or able to communicate with this machine.

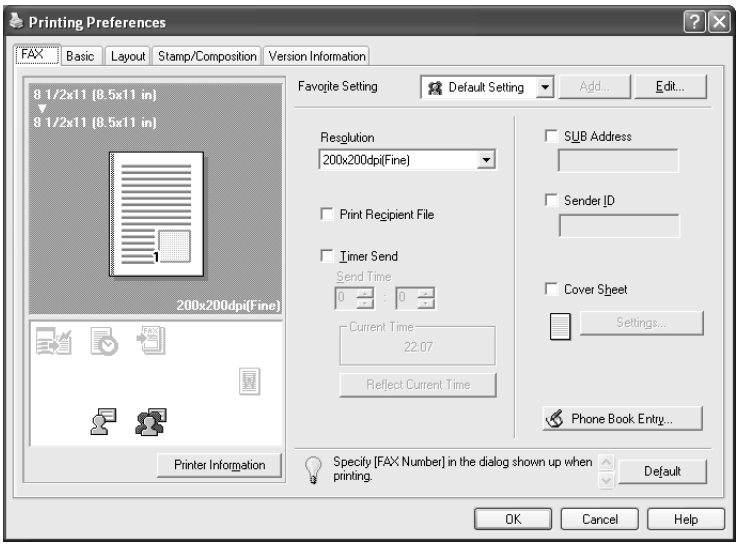
Settings tab

Item	Function
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 the user name and department name.

Note

*To display the Settings tab in Windows 2000/XP/NT 4.0/Server 2003, right-click the "*GENERIC 45C-1 *FAX" ("*GENERIC 45C-2 *FAX" on d-Color MF450) icon, and then click "Properties".*

10.3 Specifying the fax tab settings



Resolution: Specifies the fax resolution. If the resolution is increased, the transmission time may take longer.

Print Recipient File: Prints the document after a fax was sent. When sending a fax, this function can be specified when specifying the transmission settings. For details, refer to "Specifying the transmission settings" on page 10-6.

Timer Send: Sets the transmission time. By clicking the [Reflect Current Time] button, the current time set on the computer is displayed in the "Send Time" boxes. When sending a fax, this function can be specified when specifying the transmission settings. For details, refer to "Specifying the transmission settings" on page 10-6.

SUB Address: Specifies the sub address for sending confidential faxes using F-codes. When sending a fax, this function can be specified when specifying the transmission settings. For details, refer to "Specifying the transmission settings" on page 10-6.

Sender ID: Specifies the sender ID for sending confidential faxes using F-codes. When sending a fax, this function can be specified when specifying the transmission settings. For details, refer to "Specifying the transmission settings" on page 10-6.

Cover Sheet: Specifies the fax cover sheet. This function can be specified when sending a fax. For details, refer to "Creating a fax cover sheet" on page 10-7.

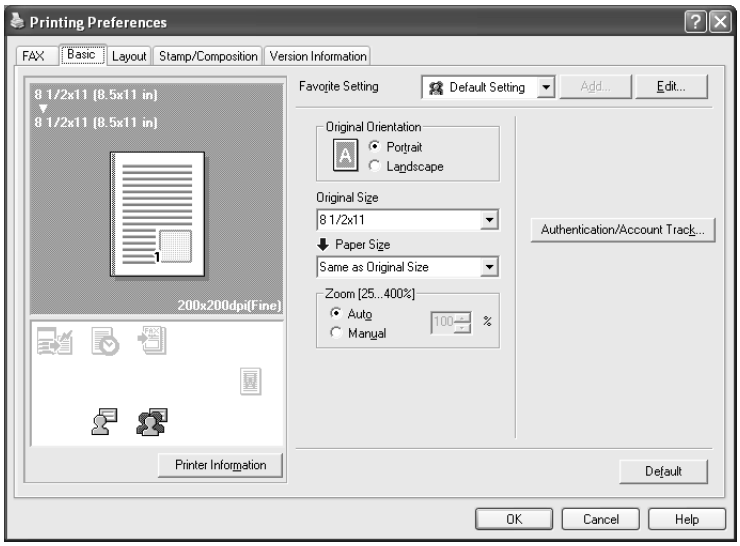
Phone Book Entry: Edits the phone book. For details, refer to "Adding a recipient to the phone book" on page 10-22.

Note

When using Timer Send, check that the time set on the computer is synchronized with the time on this machine. If the transmission time is earlier than the current time of this machine, the fax is sent the next day.

*If sending confidential faxes using F-codes to another fax model, enter the sub address and sender ID in the "SUB Address" and the "Sender ID" text boxes. Up to 20 characters (numbers 0 through 9) can be entered in the "Sub Address" text box. Up to 20 characters (numbers 0 through 9, #, and *) can be entered in the "Sender ID" text box. For the details on the sub address and the sender ID, refer to the User manual – Fax Operations (Option).*

10.4 Specifying the basic tab settings



Original Orientation: Specifies the orientation of the original document.

Original Size: Specifies the paper size of the original document.

Paper Size: Specifies the output paper size of the recipient. Automatically enlarges or reduces when the Original Size setting is changed.

Zoom: Specifies the enlargement and reduction ratio.

[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.

Specifying a custom size

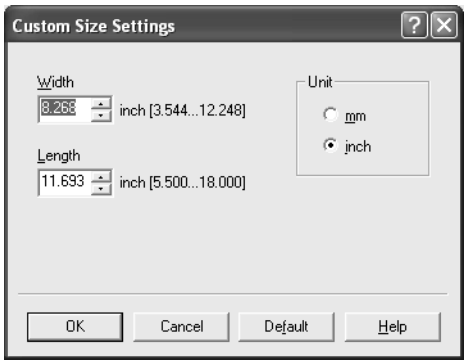
If sending an original document of a custom size, or if the recipient is using a custom paper size, you can specify the paper size by following the procedure described below.

1 From the "Original Size" or the "Paper Size" drop-down list, select "Custom Size".

The Custom Size Settings dialog box appears.

2 Specify settings for the following:

- Width: Specifies the width of the custom paper size according to the selected measurement unit.
- Length: Specifies the length of the custom paper size according to the selected measurement unit.
- Unit: Selects the measurement unit that specifies the size.



3 Click the [OK] button.

Specifying the user authentication settings

If the user authentication settings have been specified on this machine, you must enter a user name and password.

Reminder

If a fax is sent using a user name or password that is not a registered account on this machine, or if a fax is sent without selecting a user under "User Authentication", the operation is not authenticated by this machine and the job is canceled.

If the user authentication settings are specified on this machine and the authentication operation restriction function is in mode 2, the applicable user is locked and cannot be accessed if the authentication information is not entered correctly.

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 "Specifying the configure tab settings" on page 6-32.

1 Click the Basic tab.

2 Click the [Authentication/Account Track] button.

3 Select "Recipient User", and then enter the user name and password.

4 Click the [OK] button.

Note

If this machine has been set to permit public users, the machine can be used without a user name and password.

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

Click the [Verify] button to communicate with this machine and to check whether authentication can be performed with the user that was entered. You cannot use this function if you are not connected to or able to communicate with this machine.

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

If performing user authentication with an optional authentication unit (biometric type), enter the user name and password in step 3. For details, refer to the operation manual of the authentication unit (biometric type).

Specifying the account track settings

If the account track settings have been specified on this machine, you must enter a department name and password.

Reminder

If a fax is sent using a department name or password that is not a registered account on this machine, or if a fax is sent without "Account Track" selected, the operation is not authenticated by this machine and the job is canceled.

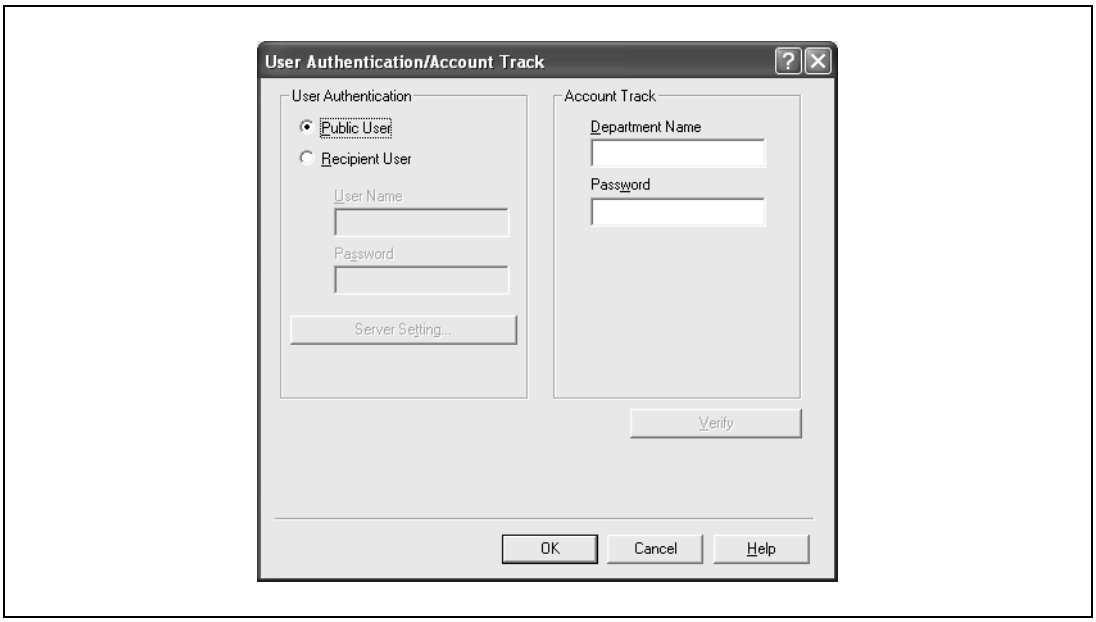
When the account track settings are specified on this machine, the authentication operation restriction function is in mode 2, and the authentication information is not entered correctly, the applicable account is locked and cannot be accessed.

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 "Specifying the configure tab settings" on page 6-32.

1 Click the Basic tab.

2 Click the [Authentication/Account Track] button.

3 Enter the department name and password.



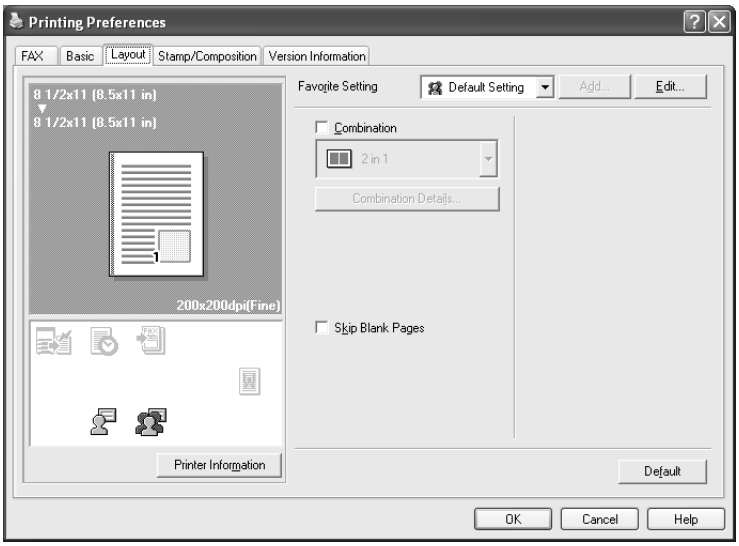
4 Click the [OK] button.

Note

Click the [Verify] button to communicate with this machine and to check whether authentication can be performed with the user that was entered. You cannot use this function if you are not connected to or able to communicate with this machine.

If usage is not allowed, transmission cannot be performed even when used by a registered account. For details on the account track function, consult the administrator of this machine.

10.5 Specifying the layout tab settings



Combination: Prints multiple pages on one page, or prints one sheet of an original document divided on multiple pages. Details can be specified by clicking the [Combination Details] button.

Skip Blank Pages: Does not print blank pages in the data.

Printing multiple pages on one page (N in 1, Poster Mode)

You can specify whether to print multiple pages of text on one page with N in 1 printing, or print one sheet of an original document divided on multiple pages with Poster Mode printing.

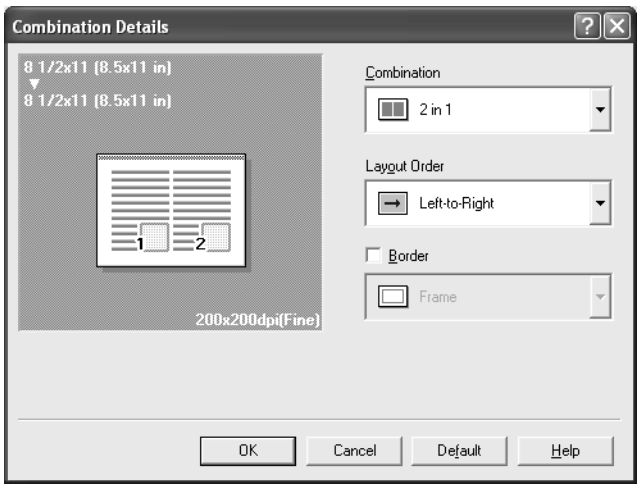
N in 1 printing comes in handy when you want to reduce the number of output pages.

Poster Mode printing comes in handy when the recipient's fax machine does not support large paper sizes.

1 Click the Layout tab.

2 Select the "Combination" check box, and then specify the setting from the drop-down list.

To change the "Border" and "Overlap width line" settings, click the [Combination Details] button, and then change the settings in the dialog box that appears.

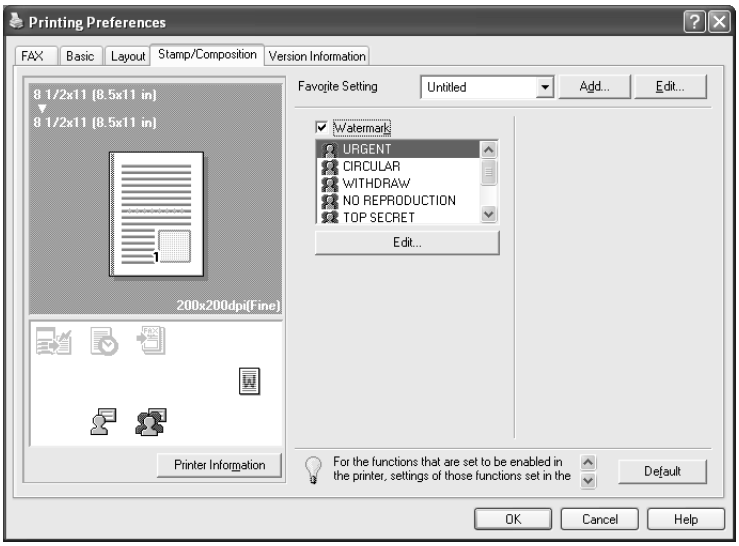


...

Reminder

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

10.6 Specifying the stamp/composition tab settings



Printing a watermark

You can print specific text in the background as a watermark.

1 Click the Stamp/Composition tab.

2 Select the "Watermark" check box.

3 From the list, select the watermark that you want to print.

Editing a watermark

You can change the fonts and position of the watermark and you can register a new one.

1 Click the Stamp/Composition tab.

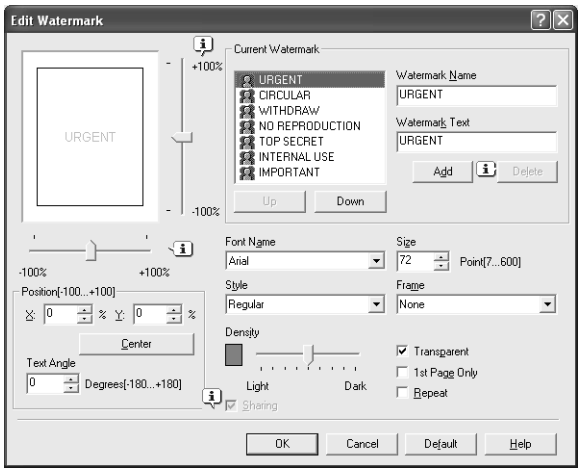
2 Select the "Watermark" check box.

3 Click the [Edit] button under "Watermark".

The Edit Watermark dialog box appears.

4 To create a watermark, click the [Add] button.
To change a watermark, select the watermark from the "Current Watermark" list.

5 Specify settings for the following:



- Watermark Name: Enters the name of the watermark.
- Watermark Text: Enters the text that is to be printed as a watermark.
- [Add]: Click to create a new watermark.
- [Delete]: Click to delete the selected watermark.
- Position: Specifies the vertical and horizontal positions. The watermark position can also be specified by using the horizontal and vertical sliders in the dialog box.
- Angle: Specifies the watermark print angle.
- Font Name: Specifies the font.
- Size: Specifies the size.
- Style: Specifies the font style.
- Frame: Specifies the frame style.
- Density: Specifies the density of the text.
- Sharing: Specifies whether to register the watermark as public or private.
- Transparent: Prints the watermark as a transparent image.
- 1st Page Only: Prints the watermark on the first page only.
- Repeat: Prints several watermarks on a single page.

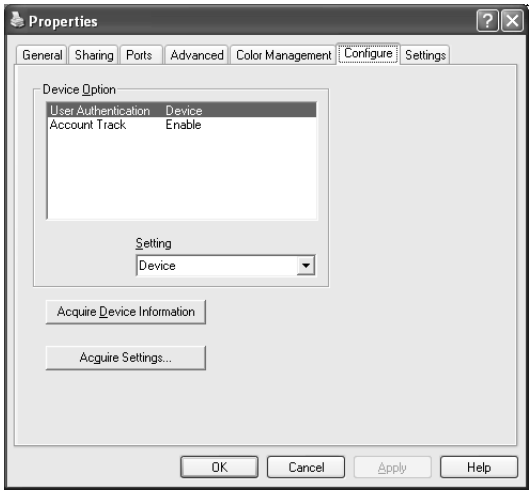
6 Click the [OK] button.

Note

Up to 30 watermarks can be registered with the shared setting, and up to 20 watermarks can be registered with the private setting.

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

10.7 Specifying the configure tab settings



Selecting an option

You can specify whether an option is enabled so that the functions of this machine are available from the fax driver.

...

Reminder

If the installed options are not set using the Configure tab, the option function cannot be used with the fax driver. When installing options, be sure to make the proper settings.

1 For Windows 2000/NT 4.0, click the [Start] button, point to "Settings", and then click "Printers".
For Windows XP/Server 2003, 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 select "Printers and Faxes".

2 Right-click the "GENERIC 45C-1 FAX" ("GENERIC_45C-2 FAX" on d-Color MF450) icon, and then click "Properties".

3 Click the Configure tab.

4 Select the options to be specified under "Device Option".

5 Select the status of the option that is installed from the "Setting" drop-down list.

...

Note

Click the [Acquire Device Information] button to communicate with this machine and read the status of the settings specified on this machine. You cannot use this function if you are not connected to or able to communicate with this machine. The connection can be specified by clicking the [Acquire Settings] button.

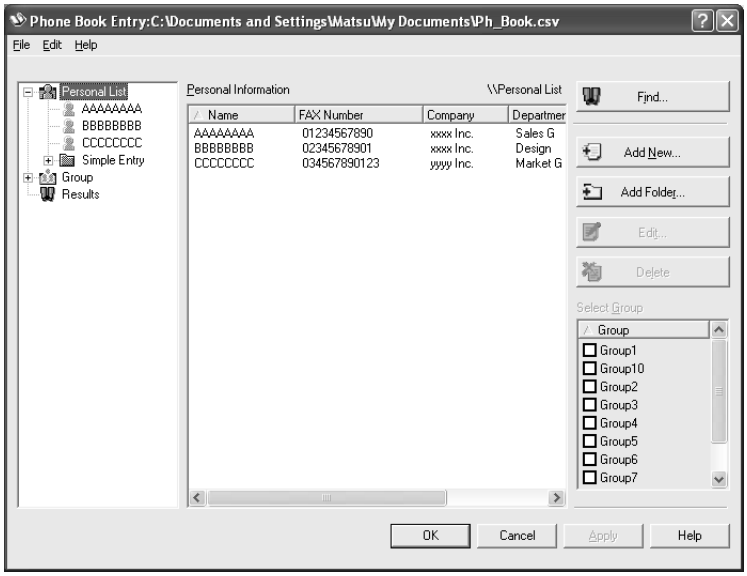
10.8 Using a phone book

Adding a recipient to the phone book

When sending a fax, you can recall the fax numbers that are used frequently by adding them to a phone book. A phone book can be added from the fax tab in the FAX Printing Preferences dialog box.

1 From the fax tab in the FAX Printing Preferences dialog box, click the [Phone Book Entry] button.

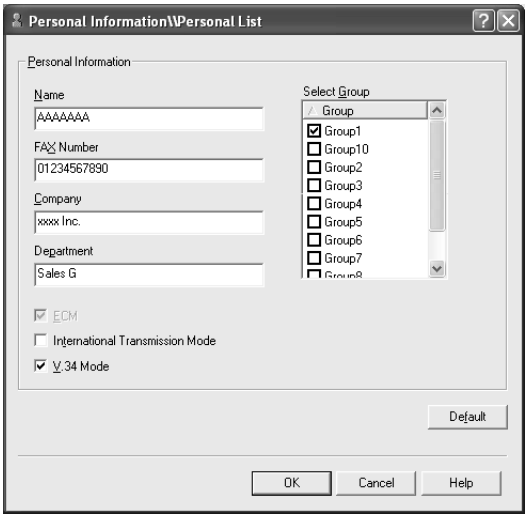
The Phone Book Entry dialog box appears.



2 From the left side of the dialog box, select "Personal List", and then click the [Add New] button.

The Personal Information\\Personal List dialog box appears.

3 Enter the appropriate information in the "Name", "Fax Number", "Company", and "Department" text boxes.



- If entering a name for a fax cover sheet, titles cannot be added. To add a title to a fax cover sheet, add the title in the "Name" text box.
- Up to 80 characters can be entered in the "Name", "Company", and "Department" text boxes.
- Up to 38 characters (numbers 0 through 9, hyphens (-), spaces, #, *, E, P, and T) can be entered in the "Fax Number" text box. To send a fax overseas, be sure to enter the country code first.

– Change the transmission mode as necessary.
ECM: Specifies the ECM (Error Correction Mode). If the "V.34 Mode" check box is selected, the "ECM" check box cannot be cleared.
International Transmission Mode: Slows the speed when sending faxes overseas. Select this check box if errors occur when sending faxes overseas.
V.34 Mode: Specifies the Super G3 fax mode. For normal fax operations, leave this check box selected. Clear it only if it is not possible to transmit in the recipient's mode.

4 To add a recipient to a group, select the check box of the group to be added.

– If adding a recipient to a group, you can specify the recipient in a group (group transmission). To send faxes to specific members, it comes in handy to add them to a group.
– Multiple groups can be selected and added.
– The group name can be changed.

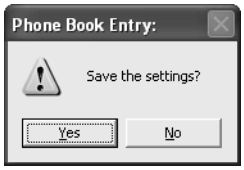
5 Click the [OK] button.

The information of the recipient is registered and it is added to "Personal Information".
If a group was specified, the group that was added also appears in "Group".

6 Click the [OK] button.
If a name was added, the editing of the phone book is complete.
The first time you register a phone book, a dialog box to confirm whether you want to save the phone book appears.

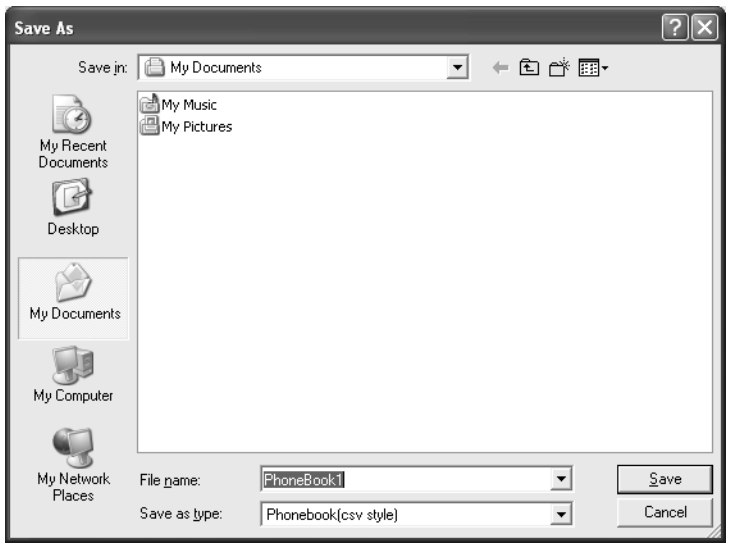
7 Click the [Yes] button.

The Save As dialog box appears.



8 Specify the storage location, enter the file name, and then click the [Save] button.

The phone book is saved as a file.



Note

The Save As dialog box appears when a phone book is registered for the first time. The Save As dialog box does not appear from the second time the phone book is changed and thereafter since the phone book file is automatically overwritten.

The saved phone book file automatically appears the next time you open the phone book. To open a different phone book, select "Open" from the "File" menu in the Phone Book Entry dialog box. If multiple phone books have been saved, you can use the phone books by switching between them.

A new phone book can be created by clicking "New" from the "File" menu in the Phone Book Entry dialog box. You can save a file under a different name by clicking "Save As" from the "File" menu.

The file extension for the phone book files is ".csv".

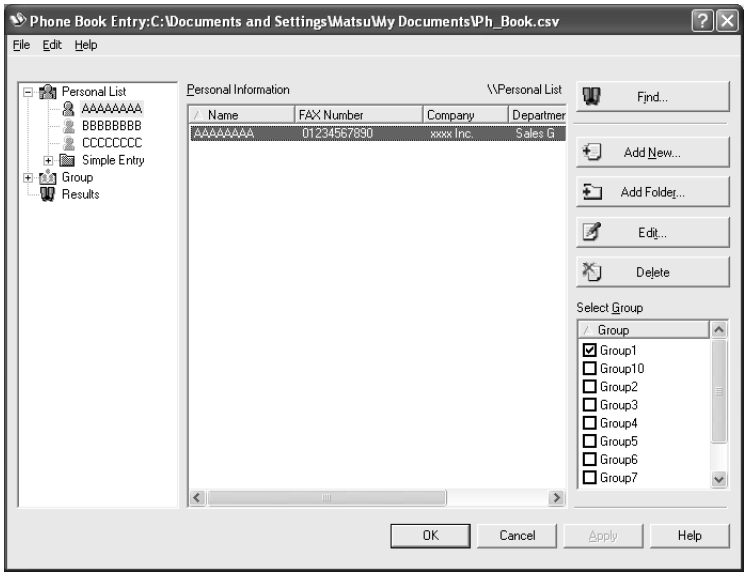
Editing a phone book

You can easily change the personal information that was registered, change the group names, edit, or organize the phone books.

To change the personal information

➔ Select the name you want to change from "Personal List" on the left side of the dialog box, and then click the [Edit] button on the right. The same Personal Information\\Personal List dialog box that appeared when you registered the phone book appears, allowing you to change the information.

– You can select the name that you want to change from "Personal List" on the left side of the dialog box, and you can delete a recipient by clicking the [Delete] button on the right. If a recipient is deleted, it is also deleted from the registered group.

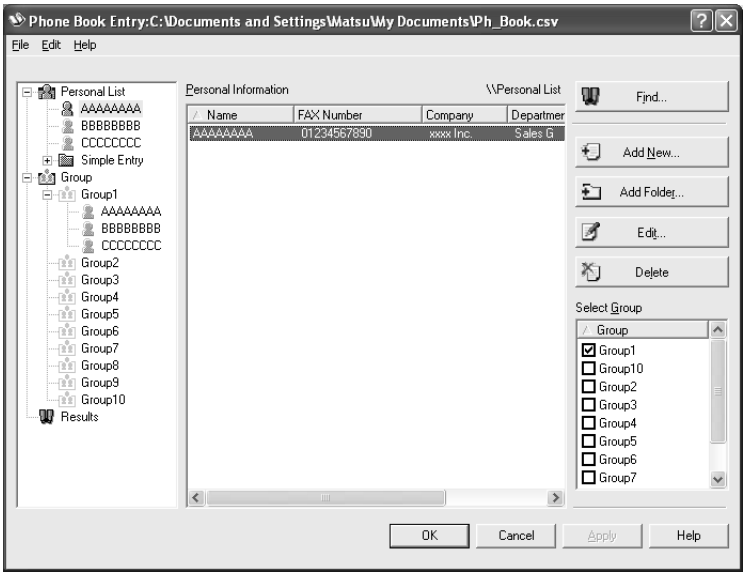


Note

When sending a fax, the names and fax numbers that were entered manually and registered by clicking the [Register To Phone Book] button, appear in the "Simple Entry" folder of the phone book.

To change a registered recipient to a group

➔ From "Personal List" on the left side of the dialog box, select the name you want to change, and then select or clear the check box of the group under the "Select Group" drop-down list.



Note

A recipient can even be added to a group by dragging the recipient's name from "Personal List" on the left side of the dialog box to the desired group. However, the name cannot be dragged out of the group.

Up to 100 recipients can be added to a group.

To change a group name

➔ Select the group that you want to change from "Group" on the left side of the dialog box, and then specify "Change Group Name" from the "Edit" menu.

To create a folder

➔ Select "Personal List" on the left side of the dialog box, and then specify "Add Folder" from the "Edit" menu.
You can move names from "Personal List" by dragging them to a folder.

Note

Names can also be moved to the desired folder by right-clicking a name and selecting "Copy" or "Cut", then selecting "Paste" on the target folder.

Up to 40 characters can be entered for the folder name.

A folder can be up to three layers deep.

To edit a folder, select the desired folder, and then click the [Edit] button.

To delete a folder, select the desired folder, and then click the [Delete] button.

To search the personal information

➔ Click the [Find] button on the left side of the dialog box to display the Find dialog box where the search conditions can be specified.

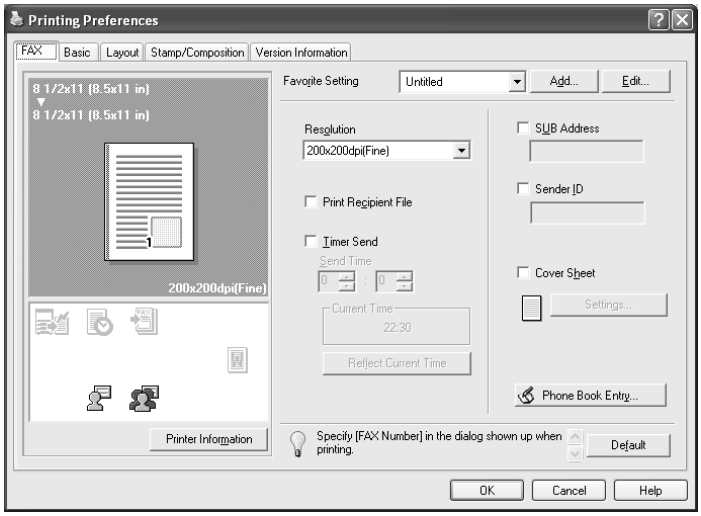
10.9 Saving the driver settings

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

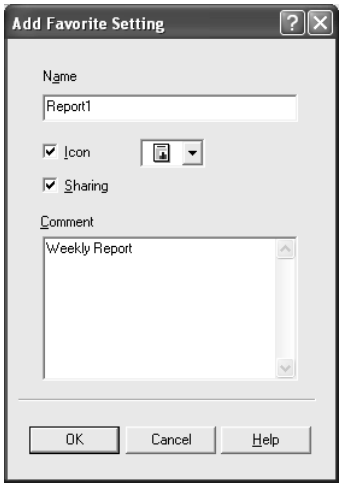
Saving the driver settings

1 Change the driver settings from the Basic tab and the Layout tab.

2 Click the [Add] button next to the "Favorite Setting" drop-down list.



3 Specify settings for the following:



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

4 Click the [OK] button.

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

...

Note

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

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

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

The settings that were specified can also be saved (exported) to a file. For details, refer to "Importing and exporting the driver settings" on page 10-28.

Recalling the settings

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

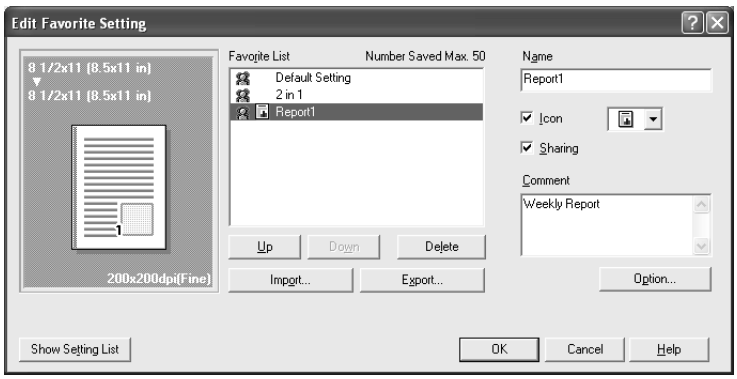
The setting values are recalled, and the settings for the fax printer driver are changed.

Editing the settings

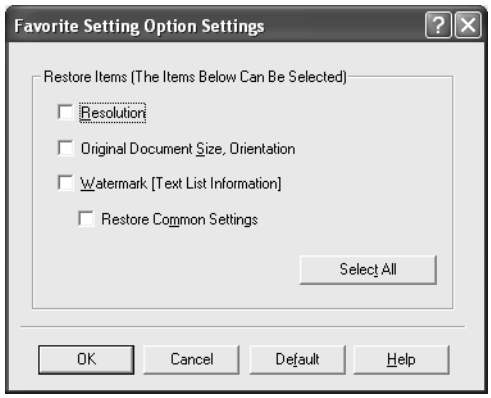
You can edit the recalled function items such as the specified names and comments.

1 In the FAX Printing Preferences dialog box, click the [Edit] button next to the "Favorite Setting" drop-down list.

2 From the list, select the specified name that you want to change, and then change the setting.
To delete a setting, click the [Delete] button.
To switch the order displayed, click the [Up] button or the [Down] button.



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



4 Click the [OK] button.

Note
The specified settings of the driver functions cannot be changed.

Importing and exporting the driver settings

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

1 In the FAX Printing Preferences dialog box, click the [Edit] button next to the "Favorite Setting" drop-down list.

2 From the list, select the specified name that you want to export, and then click the [Export] button.

The dialog box to save the specified file appears.

3 Specify the location to save the file and enter the file name.

4 Click the [Save] button.

The specified file is created. The file extension is ".KSF".

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

11 Various settings

11 Various settings

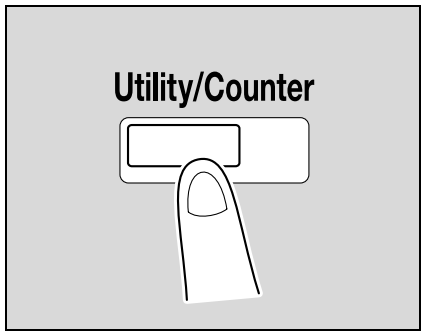
11.1 Print settings in utility mode

You can change the settings of the printer functions in this machine's control panel.

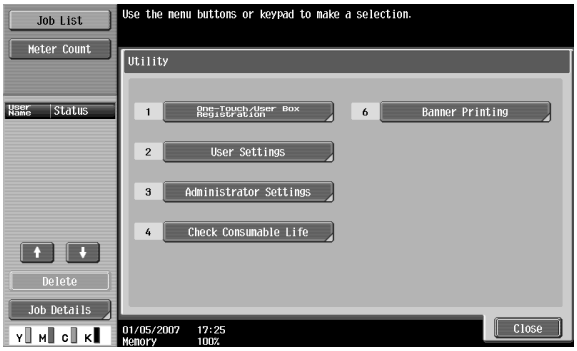
Default settings

To display the user settings screen

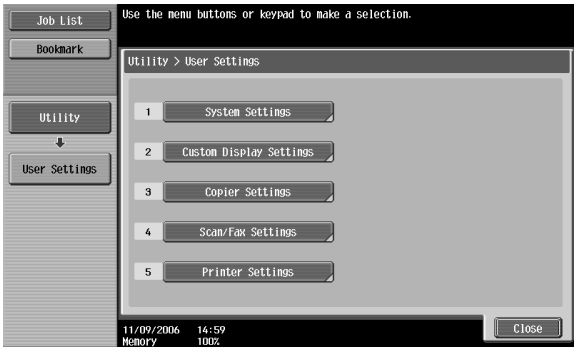
1 Press the [Utility/Counter] key.



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, cancel 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.

PDL setting

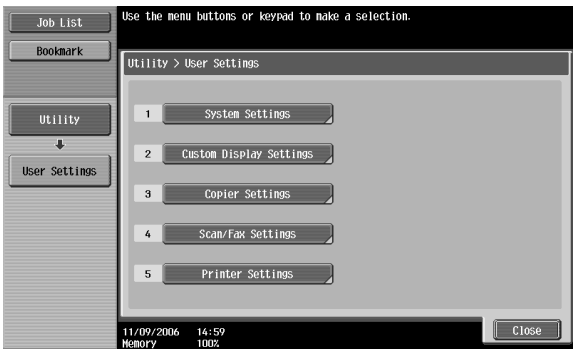
You can specify the PDL (Page Description Language) setting. (Default setting: Auto)

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

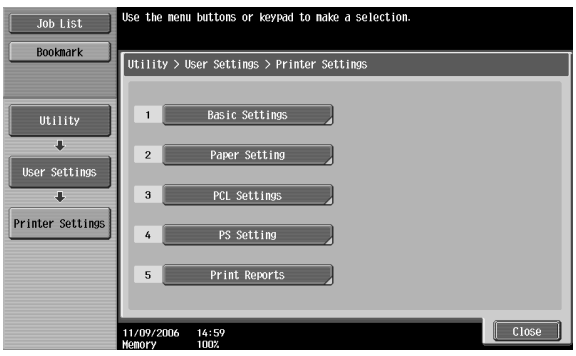
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

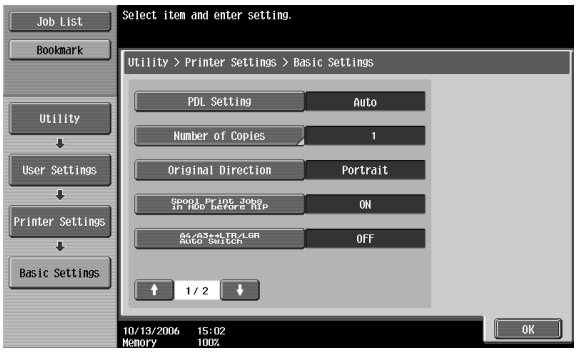
1 In the User Settings screen, touch [5 Printer Settings].



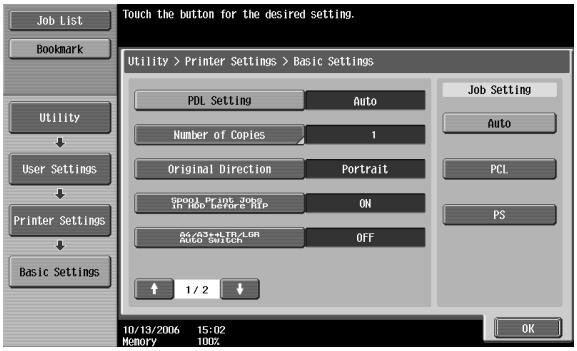
2 Touch [1 Basic Settings].



3 Touch [PDL Setting].



4 Touch the button for the desired setting.



Number of copies

You can specify the default number of copies when no setting has been specified from the printer driver. (Default setting: 1)

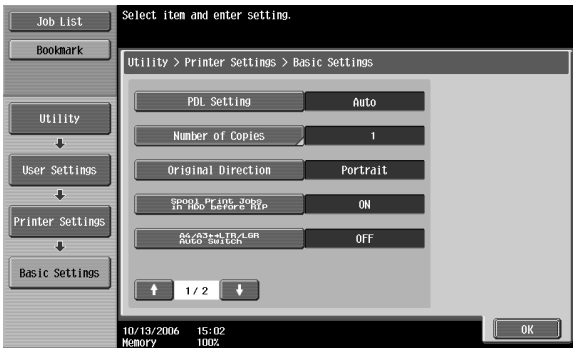
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

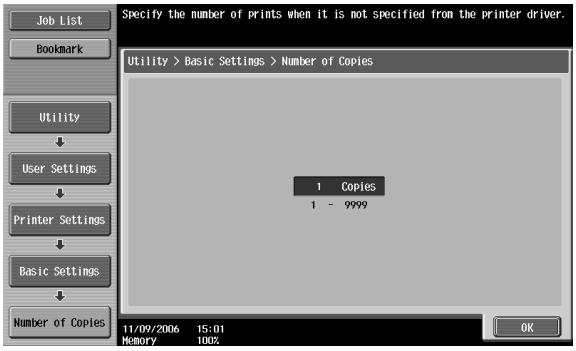
1 In the User Settings screen, touch [5 Printer Settings].

2 Touch [1 Basic Setting].

3 Touch [Number of Copies].



4 Press the [C] (clear) key to erase the value, and then use the keypad to type in the default number of copies (between 1 and 999 sets).



– 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.

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.

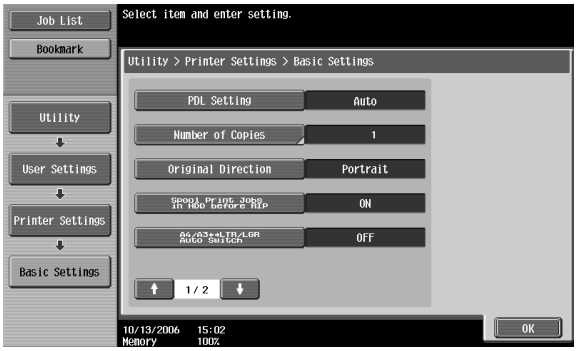
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

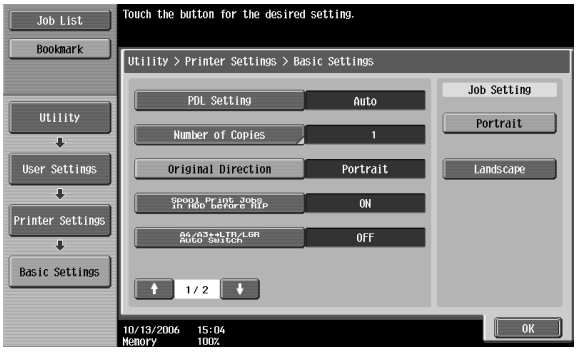
1 In the User Settings screen, touch [5 Printer Settings].

2 Touch [1 Basic Setting].

3 Touch [Original Direction].



4 Touch the button for the desired setting.



Spool setting

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

Be sure not to change the setting to "OFF". Printing may not be possible.

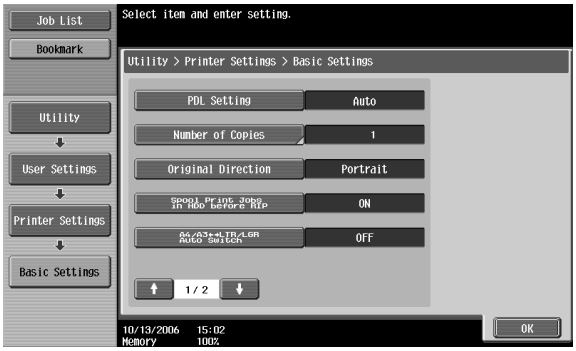
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

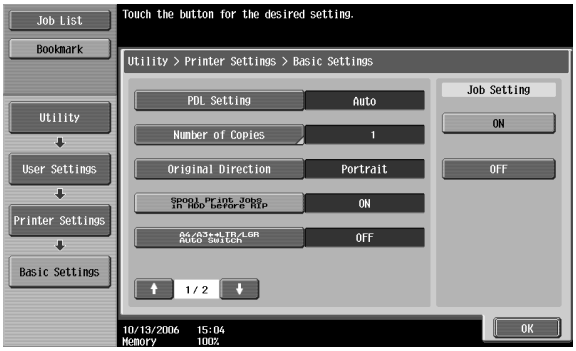
1 In the User Settings screen, touch [5 Printer Settings].

2 Touch [1 Basic Setting].

3 Touch [Spool Print Jobs in HDD before RIP].



4 Touch the button for the desired setting.



Paper size change

You can specify whether similar paper sizes 8-1/2 × 11 and A4, and 11 × 17 and A3 are substituted for each other when there is no paper of the size specified with the printer driver. (Default setting: OFF)

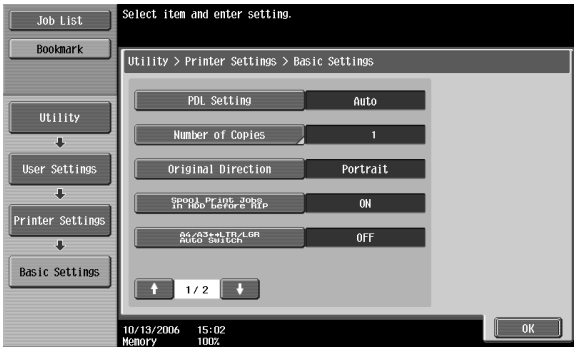
Reminder
The image may be defected since printing is forced.

Detail
For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

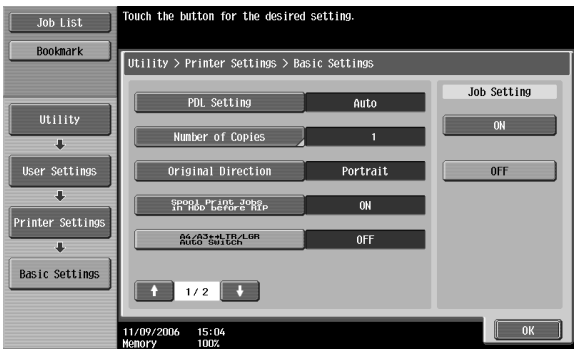
1 In the User Settings screen, touch [5 Printer Settings].

2 Touch [1 Basic Setting].

3 Touch [A4/A3 <=> LTR/LGR Auto Switch].



4 Touch the button for the desired setting.



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 "To display the user settings screen" on page 11-3.

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

2 Touch [1 Basic Setting].

3 Touch ↑ or ↓, and then touch [Banner Sheet Setting].

4 Touch the button for the desired setting.

Binding direction adjustment

You can specify whether to adjust the binding position for duplex printing. (Default setting: Finishing Priority)

If you want to increase the print efficiency, select "Productivity Priority". If the desired binding position and width cannot be achieved, select "Finishing Priority".

- Finishing Priority: Adjusts the binding position to the most suitable position after all of the print data is received by this machine.
- Productivity Priority: Printing is performed efficiently because the data is printed simultaneously as it is being received.
- Control Adjustment: Follows the settings specified in the printer driver without adjusting the binding position.

Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

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

2 Touch [1 Basic Setting].

3 Touch ▲ or ▼, and then touch [Binding Direction Adjustment].

4 Touch the button for the desired setting.

Paper tray

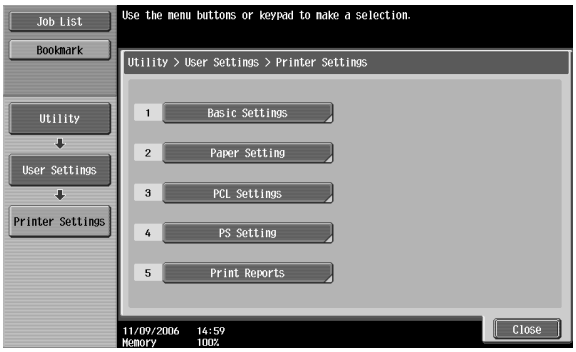
You can specify the input tray to use when none has been specified from the printer driver. (Default setting: Auto)

Detail

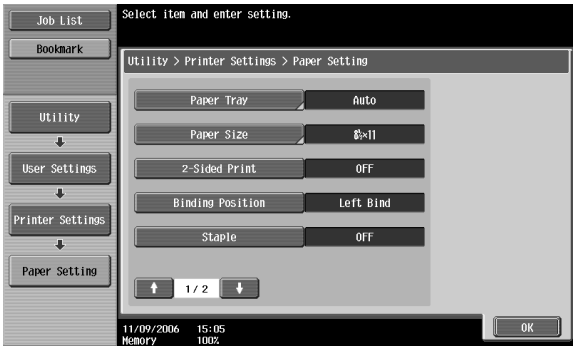
For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

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

2 Touch [2 Paper Setting].



3 Touch [Paper Tray].



4 Touch the button of the desired paper tray.

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

5 Touch [OK].

Paper size

You can specify the paper size to use when no setting has been specified from the printer driver. (Default setting: 8-1/2 × 11)

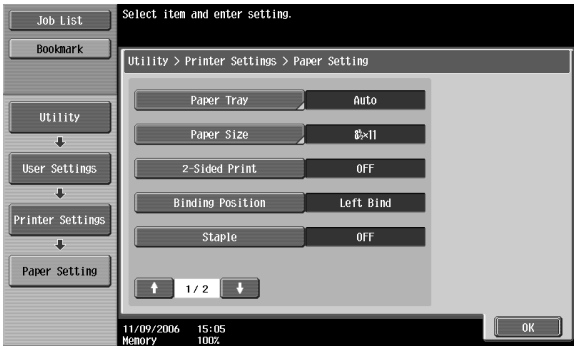
Note

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

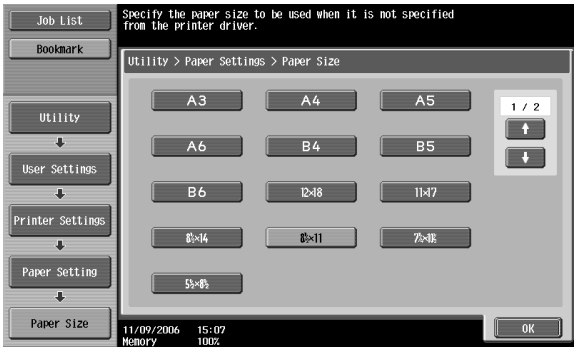
1 In the User Settings screen, touch [5 Printer Settings].

2 Touch [2 Paper Setting].

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].

2-sided print

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

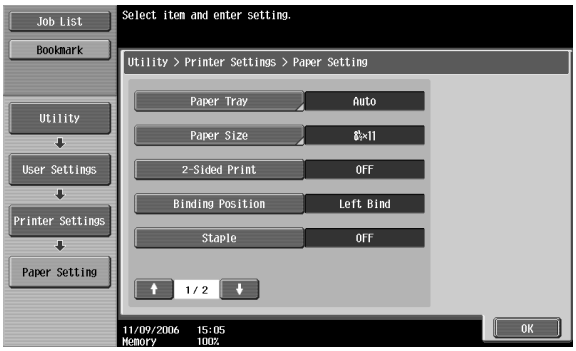
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

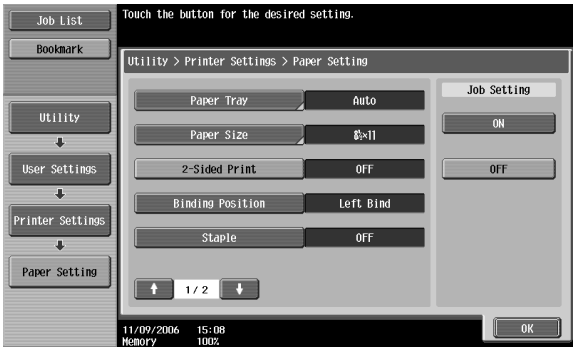
1 In the User Settings screen, touch [5 Printer Settings].

2 Touch [2 Paper Setting].

3 Touch [2-Sided Print].



4 Touch the button for the desired setting.



Binding position

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

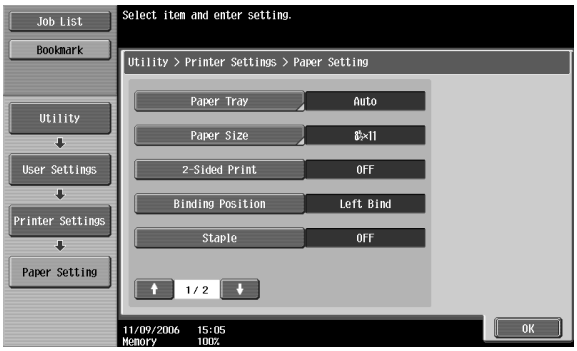
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

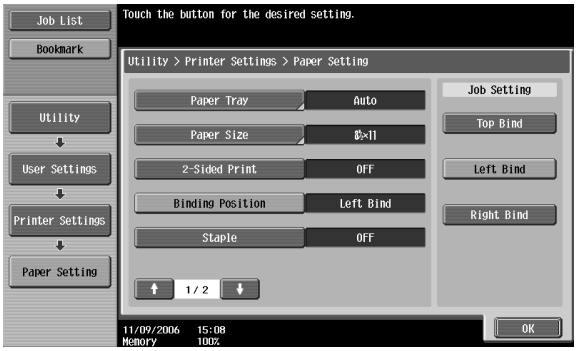
1 In the User Settings screen, touch [5 Printer Settings].

2 Touch [2 Paper Setting].

3 Touch [Binding Position].



4 Touch the button for the desired setting.



Staple

You can specify the staple settings. (Default setting: OFF)

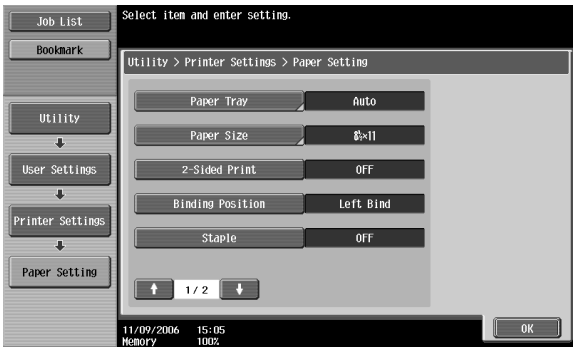
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

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

2 Touch [2 Paper Setting].

3 Touch [Staple].



4 Touch the button for the desired setting.

Reminder

The staple function is available only when the optional finisher is installed.

Punch

You can specify the hole punching settings. (Default setting: OFF)

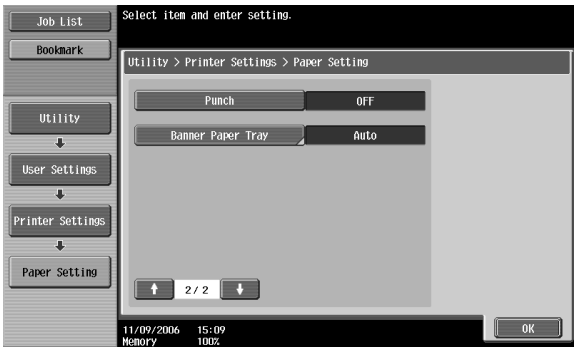
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

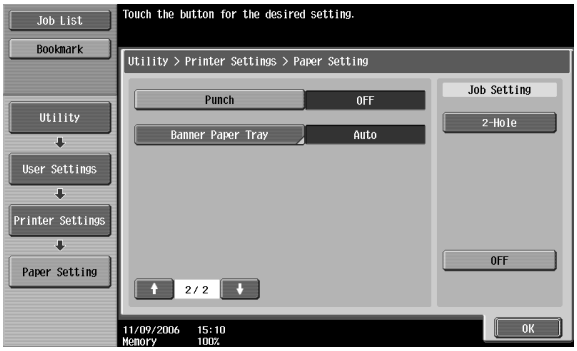
1 In the User Settings screen, touch [5 Printer Settings].

2 Touch [2 Paper Setting].

3 Touch [↑] or [↓], and then touch [Punch].



4 Touch the button for the desired setting.



...

Reminder

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

Banner paper tray

You can specify the paper tray to be used for banner page printing. (Default setting: Auto)

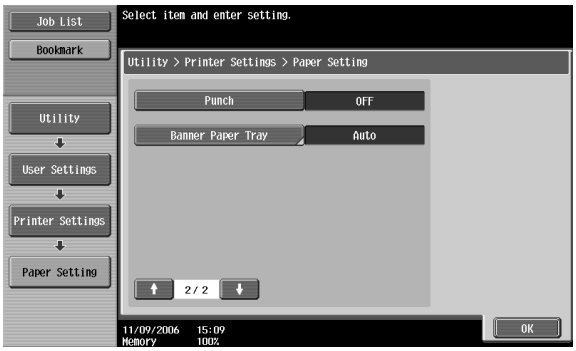
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

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

2 Touch [2 Paper Setting].

3 Touch [↑] or [↓], and then touch [Banner Paper Tray].



4 Touch the button for the desired setting.

Font settings

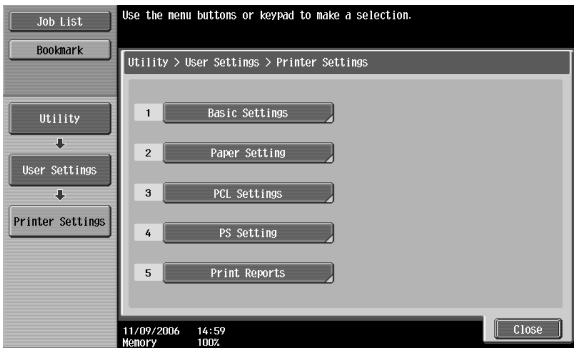
You can specify the font to use when no setting has been specified from the printer driver. (Default setting: Courier)

Detail

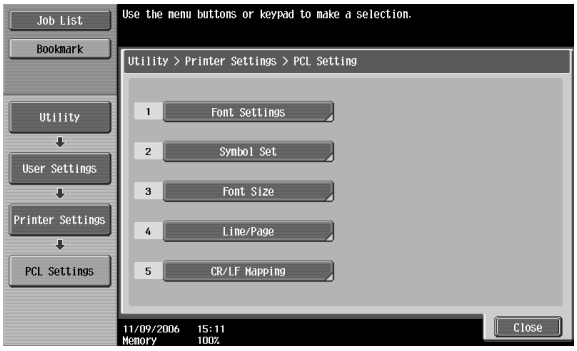
For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

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

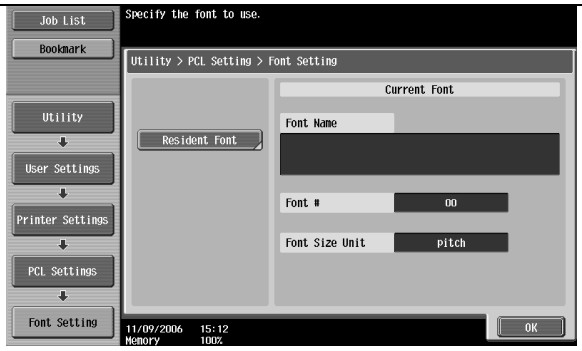
2 Touch [3 PCL Settings].



3 Touch [1 Font Settings].

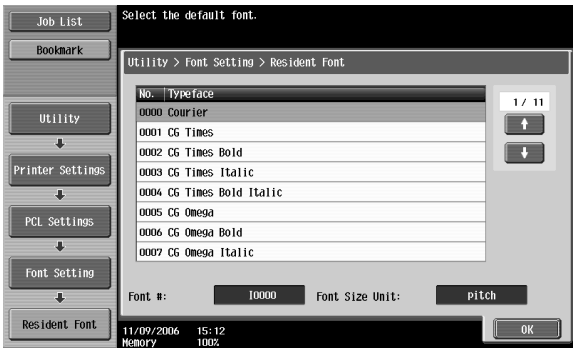


4 Touch [Resident Font].



– 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].

Symbol set

You can specify the font symbol set to use when no setting has been specified from the printer driver. (Default setting: Depends on the location.)

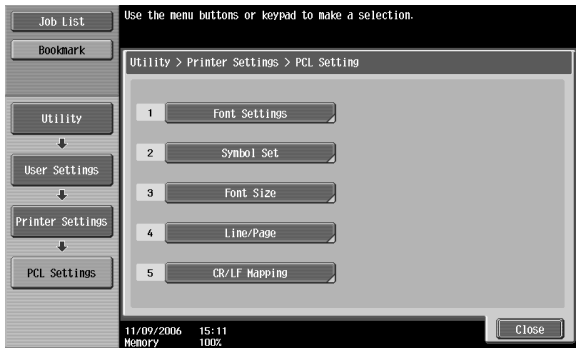
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

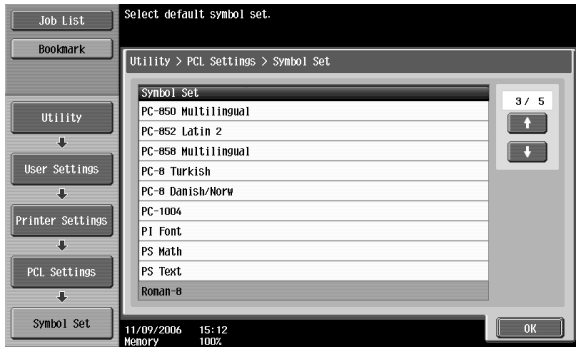
1 In the User Settings screen, touch [5 Printer Settings].

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].

Font size

You can specify the font size to use when no setting has been specified from the printer driver. (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.

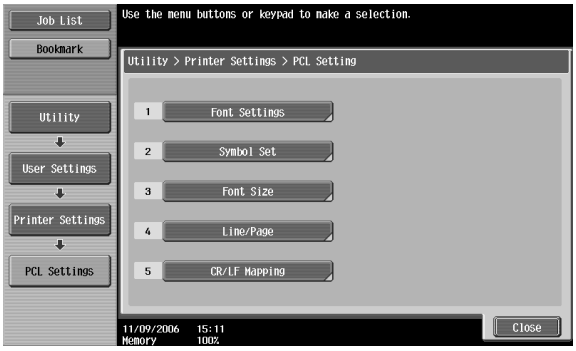
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

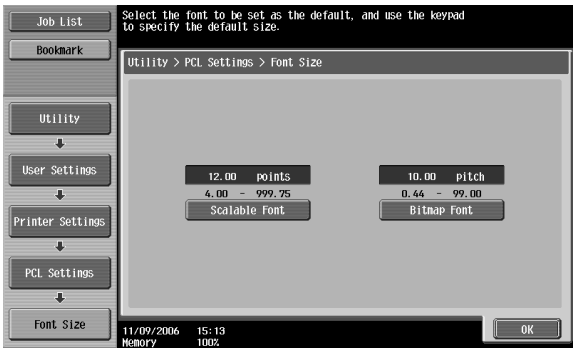
1 In the User Settings screen, touch [5 Printer Settings].

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 default font 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.

Line/Page

You can specify the number of lines per page when printing text. (Default setting: Depends on the location.)

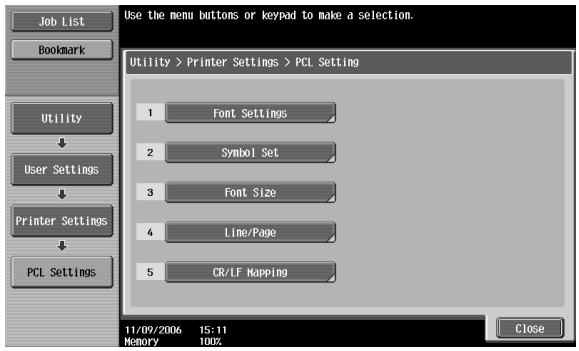
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

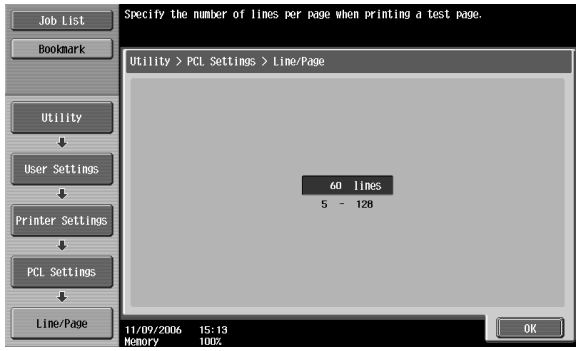
1 In the User Settings screen, touch [5 Printer Settings].

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 default number of lines (between 5 and 128).



– 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.

CR/LF mapping

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

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

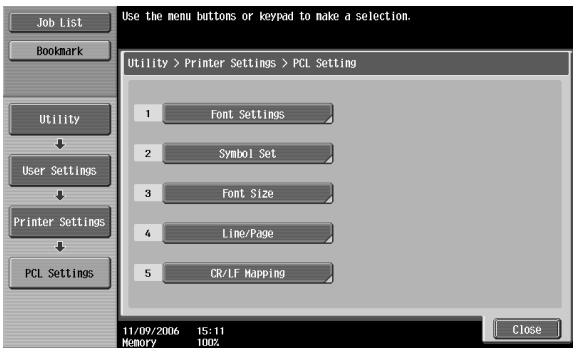
Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

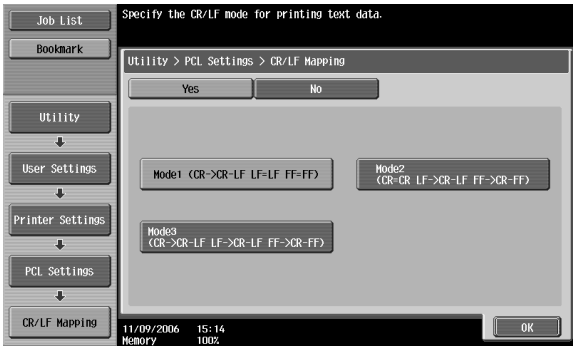
1 In the User Settings screen, touch [5 Printer Settings].

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].

Print PS errors

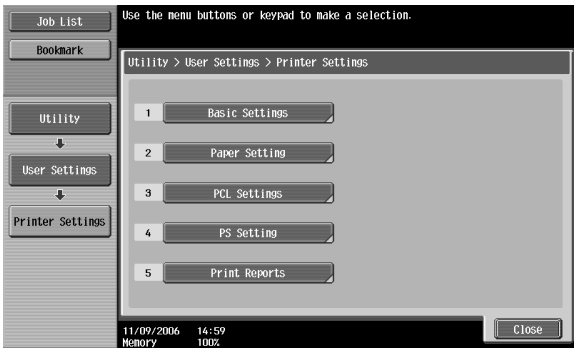
You can specify whether to print the error message when an error occurs during PS rasterization. (Default setting: OFF)

Detail

For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

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

2 Touch [4 PS Setting].



3 Touch [Print PS Errors].

4 Touch the button for the desired setting.

Print reports

You can output the following four types of reports. The report output method here is explained in the PCL font list.

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

Detail

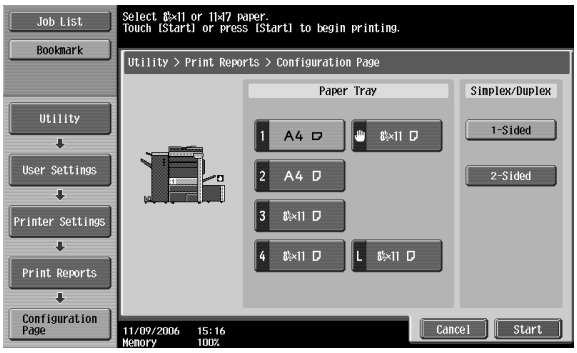
For details on displaying the User Settings screen, refer to "To display the user settings screen" on page 11-3.

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

2 Touch [5 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].

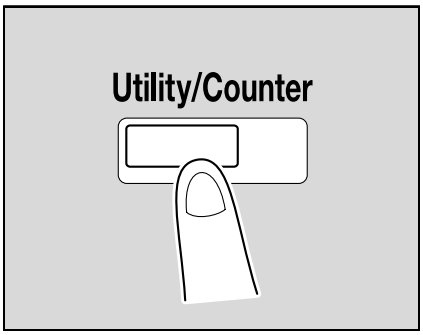


5 To print a report, touch [Start] or press the [Start] key.

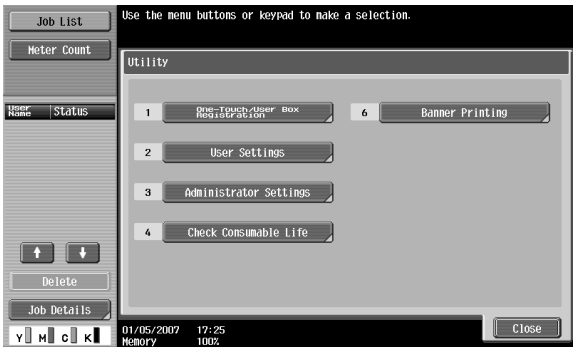
11.2 Print settings in administrator mode

To display the administrator settings screen

1 Press the [Utility/Counter] key.



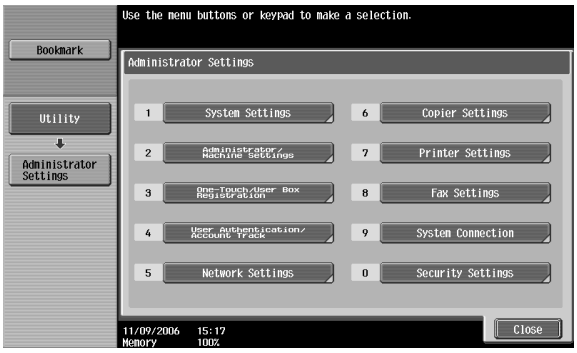
2 Touch [3 Administrator Settings].



3 Enter the password, and then touch [OK].

– In the Utility mode, an item can also be selected by pressing the key in the keypad for the number beside the desired button. For [3 Administrator Settings], 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, cancel 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.

Print/Fax output setting

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. (Default settings: Printer - Page Print; Fax - Batch Print)

Reminder

To display the Administrator Settings screen, refer to "To display the administrator settings screen" on page 11-28.

1 In the Administrator Settings screen, touch [1 System Settings].

2 In the Systems Settings screen, touch [2 Output Settings].

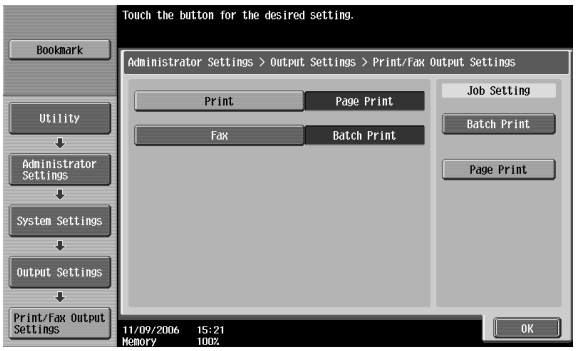
3 In the Output Settings screen, touch [1 Print/Fax Output Settings].

– If the "Administrator Security Level" parameter is set to "Level 2", users can also specify this setting. Touch [User Settings], [System Settings], [Output Settings], then [Print/Fax Output Settings] to display the Print/Fax Output Settings screen.
– For details on the user access levels, refer to the User manual – Copy Operations.

The Print/Fax Output Settings screen appears.

4 Touch [Print] or [Fax].

The buttons for the available settings appear.



5 Touch the button for the desired setting.

The timing the data is printed 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.

Output tray setting

You can specify the output tray to use when none has been specified from the printer driver. (Default setting: Printer - Tray 1)

Detail

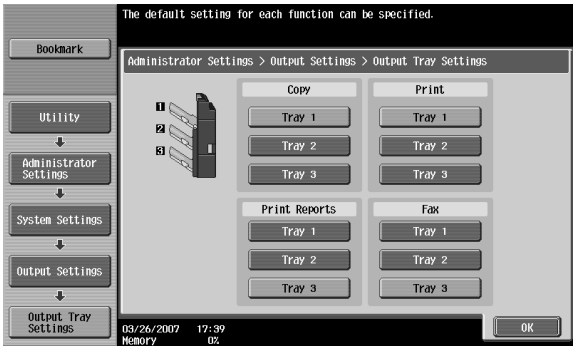
To display the Administrator Settings screen, refer to "To display the administrator settings screen" on page 11-28.

1 In the Administrator Settings screen, touch [1 System Settings].

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.

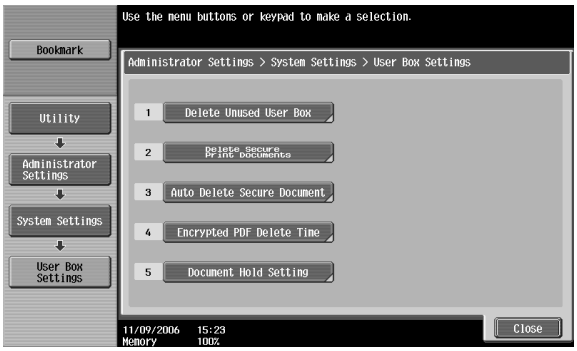
To delete secure print documents

All saved secure print documents can be deleted.

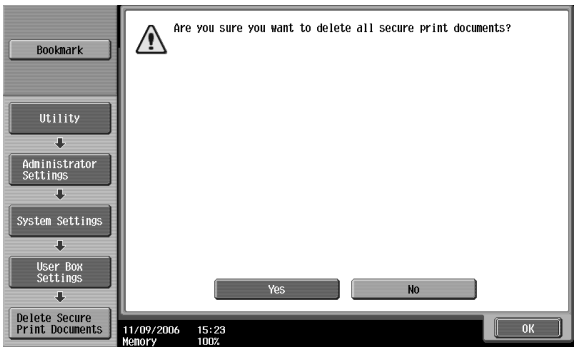
1 In the Administrator Settings screen, touch [1 System Settings].

2 In the Systems Settings screen, touch [0 User Box Settings].

3 In the User Box Settings screen, touch [2 Delete Secure Print Documents].



4 To delete the secure print documents, touch [Yes].



5 Touch [OK].

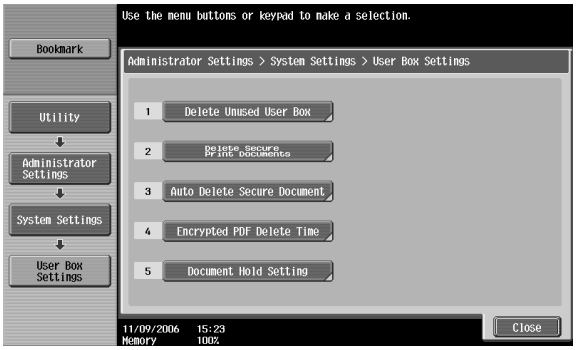
To specify the "Secure Print Document Delete Time Setting" parameter

The length of time for deleting a secure document after it is saved can be specified.

1 In the Administrator Settings screen, touch [1 System Settings].

2 In the System Settings screen, touch [0 User Box Settings].

3 In the User Box Settings screen, touch [3 Auto Delete Secure Document].



4 Select [Yes] or [No]. If [Yes] is selected, be sure to also select the time until the secure document is deleted.

5 Touch [OK].

Printing without specifying the authentication setting

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.

Detail

To display the Administrator Settings screen, refer to "To display the administrator settings screen" on page 11-28.

Even if "Allow" or "Restrict" is specified, a job is not printed and it is canceled if the user name or password, or department name or password that is specified to the job is incorrect.

1 In the Administrator Settings screen, touch [4 User Authentication/Account Track].

2 In the User/Account screen, touch [Print without Authentication].

3 Touch the button for the desired setting.

The print without authentication setting is set.

I/F timeout

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

Detail

To display the Administrator Settings screen, refer to "To display the administrator settings screen" on page 11-28.

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 default length of time (between 10 and 1000 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.

Print data capture

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

Detail

To display the Administrator Settings screen, refer to "To display the administrator settings screen" on page 11-28.

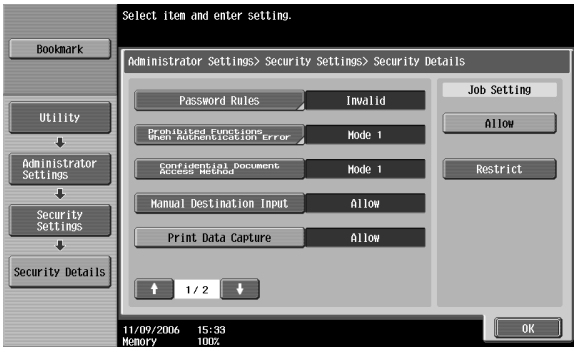
For details on capturing a print job, consult a service technician.

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].

The buttons for the available settings appear.



4 Touch the button for the desired setting.

The capturing of a print job is either allowed or prohibited.

Note

For details on capturing a print job, consult a service technician.

11.3 Print job management

Specifying job operations

You can specify the job operations on this machine by setting a printer driver.

Note

The three printer drivers that can be set on this machine are as follows:
Generic PCL Printer Driver for Windows
Generic PostScript Printer Driver for Windows
Generic PostScript PPD Printer Driver for Mac OS X

Specifying settings (for Windows)

1 Click the [Properties] button on the Print dialog box to open the printer driver setup dialog box.

2 Click the Basic tab.

3 From the "Output Method" drop-down list, select the output method.

- Print: Prints immediately.
- Secure Print: Enters the ID and password in the dialog box that appears and saves the print document in "Secure Print User Box" on this machine. When printing, you are required to enter the ID and password in this machine's control panel. Select when printing highly confidential documents.
- Save in User Box: Enters the file name and box number in the dialog box that appears, and saves the document to be printed in a 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 a part of the document has been printed, this machine stops printing temporarily. Select to avoid misprinting a large volume of print jobs.

Detail

For details, refer to "Selecting the output method" on page 6-10 and page 7-11.

Specifying settings (for Mac OS X)

1 From the [File] menu, select "Print".

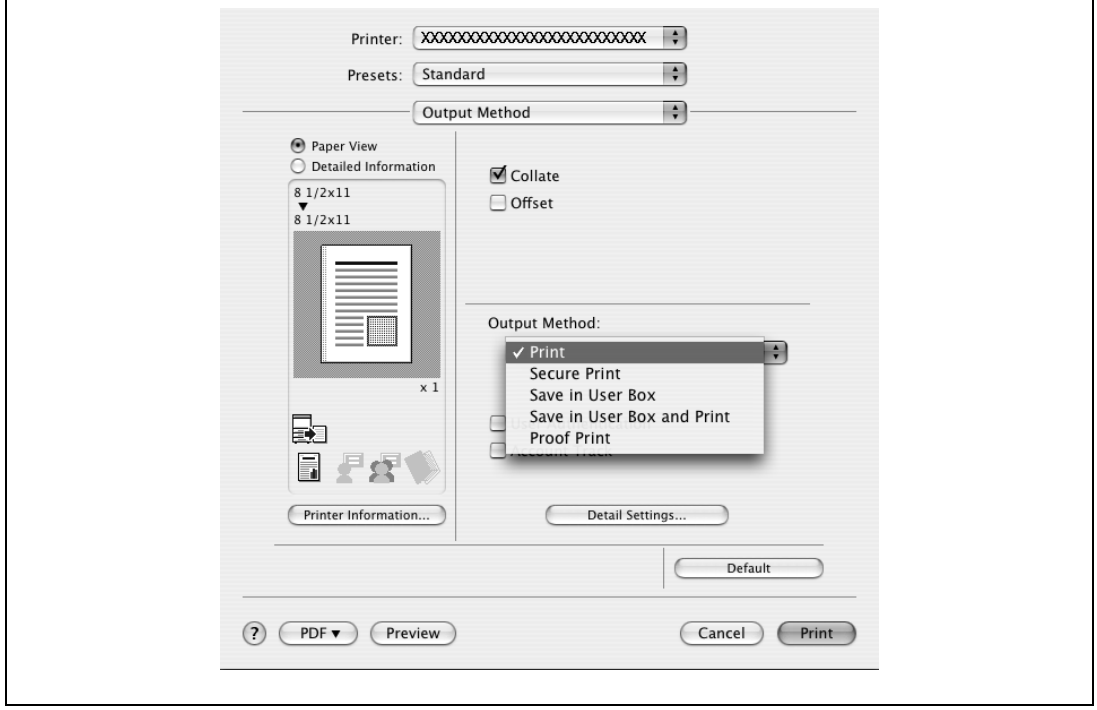
2 Select "Output Method".

3 From the "Output Method" drop-down list, select the output method.

- Print: Prints immediately.
- Secure Print: Enters the ID and password in the dialog box that appears and saves the print document in "Secure Print User Box" on this machine. When printing, you are required to enter the ID and password in this machine's control panel. Select when printing highly confidential documents.
- Save in User Box: Enters the file name and box number in the dialog box that appears, and saves the document to be printed in a 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 a part of the document has been printed, this machine stops printing temporarily. Select to avoid misprinting a large volume of print jobs.

Detail

For details, refer to "Output method" on page 9-10.



Job storage

When "Output Method" in the printer driver is selected, a print document can be stored in this machine as a print job.

To print a stored job, you must recall the job using this machine's control panel.

Recalling jobs (proof print)

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.

1 Touch [Job List] in this machine's control panel, then [Job Details].

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 you want to print.

– To print the remaining jobs, skip to step 7.
– To check the print results again, continue to step 4.
– To change the printing conditions, skip to step 5.

4 To check the print results, select the job whose sample copy is to be printed from the job list, and then press the [Proof Copy] key in the control panel.

– Check the print results on the printed pages.

5 Touch [Change Setting].

– If the job to be removed from the Release Held Job list is not displayed, touch [↑] or [↓] until the desired job is displayed.
– If an incorrect job was selected, touch the button for the selected job again to deselect it.

The Change Settings screen appears.

6 Change the printing conditions on the Change Settings screen, and then touch [OK].

The Release Held Job screen appears again.

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

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

The stored job is changed to an active job, then printed.

Recalling jobs (secure print)

"Secure Print" jobs are saved in "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.

Note

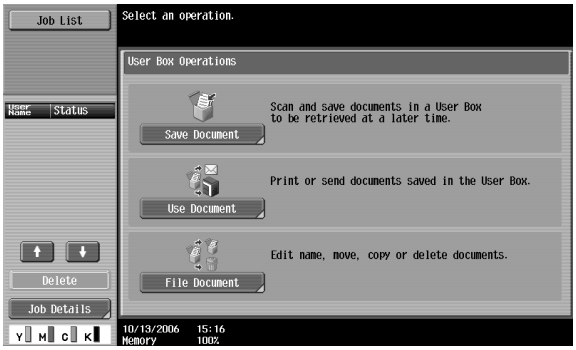
Secured documents are automatically deleted after a set length of time after they are registered. The default setting of this time is specified as 1 day, and the setting can be specified in the administrator mode. For details, refer to "To specify the "Secure Print Document Delete Time Setting" parameter" on page 11-32.

A secure document that was printed can be deleted manually in the Administrator mode. For details, refer to "To delete secure print documents" on page 11-31.

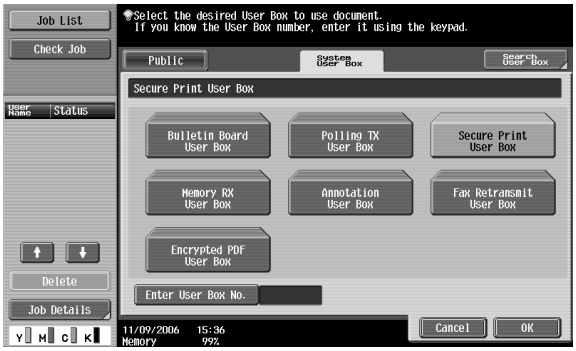
For details on specifying a setting for "Secure Document Access Method", refer to the User manual – Copy Operations.

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

1 Press the [Box] key in this machine's control panel, and then touch [Use Document].



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



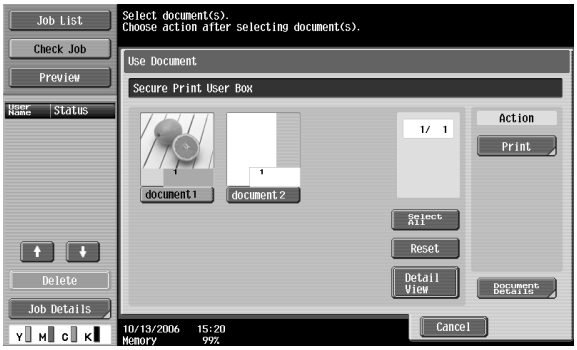
3 Type in the ID for the secure print document, and then touch [OK].

4 Type in the password for the secure print document, and then touch [OK].

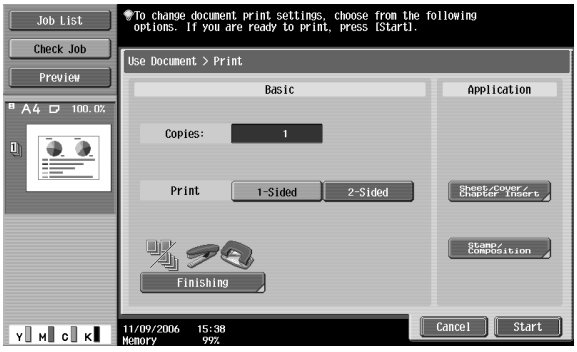
If the specified ID and password match, the secure print document list appears.

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

– The contents and a preview of the document can be checked by touching [Document Details].



6 If necessary, change the print conditions.



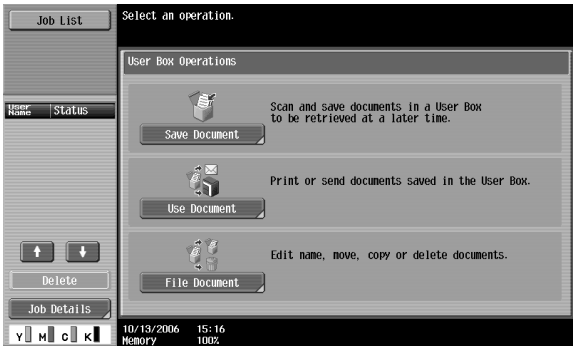
7 Touch [Start] or press the [Start] key in the control panel.

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

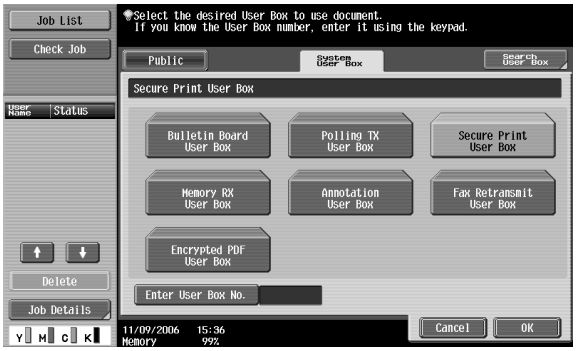
The document is printed.

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

1 Press the [Box] key in this machine's control panel, and then touch [Use Document].



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

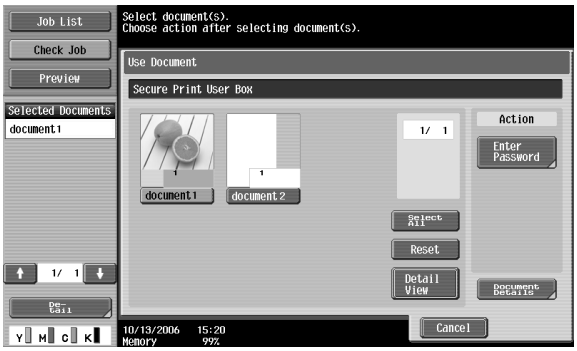


3 Type in the ID for the secure print document, and then touch [OK].

If the specified ID matches, the secure print document list appears.

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

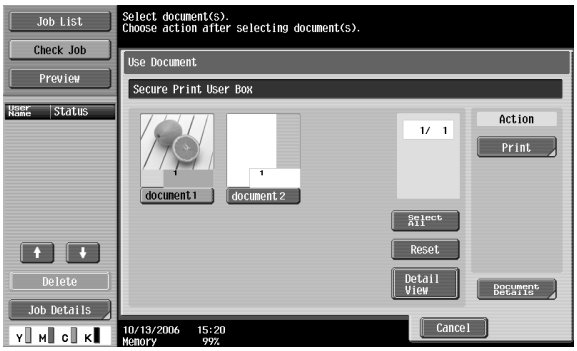
– The contents and a preview of the document can be checked by touching [Document Details].



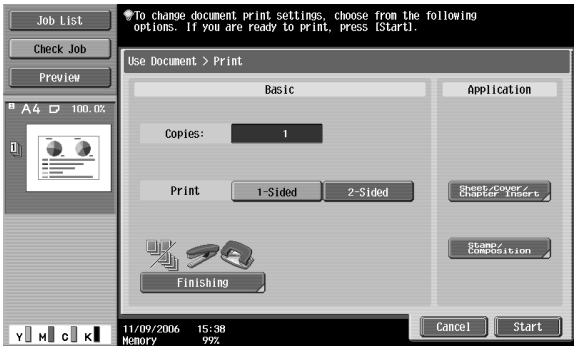
5 Type in the password for the secure print document, and then touch [OK].

If the specified password matches, the security print document list appears.

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



7 If necessary, change the print conditions.



– If "Prohibit Functions when Auth. 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.

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

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

The document is printed.

Recalling jobs (save in user box)

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

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

Detail

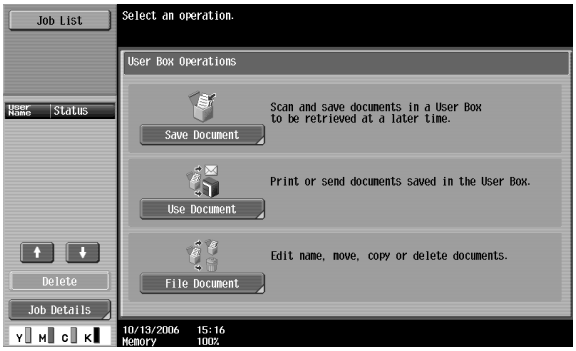
For details on using the keys in the control panel, refer to the User manual – Copy Operations.

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

Note

Box documents are automatically deleted after a set length of time after they are registered. The default setting of this time is specified as 1 day, and the setting can be specified when creating the box.

1 Press the [Box] key in this machine's control panel, and then touch [Use Document].



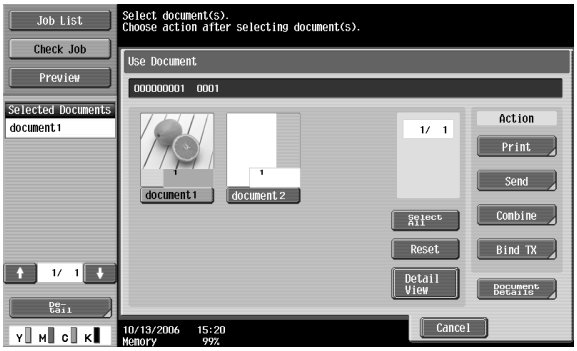
2 Select the desired box number, and then touch [OK].
Boxes are classified as public, private, or group. Specify the desired box from the classification of the saved box.
The box number can be specified manually.

- If a password is specified to a box, continue to step 3.
- If a password is not specified to a box, skip to step 4.

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

The specified box document list appears.

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



5 If necessary, change the print conditions.

6 Touch [Start] or press the [Start] key in the control panel.

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

The document is printed.

Printing with this machine when user authentication settings have been applied

When the user authentication function has been specified on this 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 a registered account on this machine or if a job is sent without specifying "User Authentication", the operation is not authenticated by this machine and the job is canceled.

When the user authentication settings are specified on this machine, the authentication operation restriction function is in mode 2, and the authentication information is not entered correctly, the applicable user is locked and cannot be accessed.

The three printer drivers that can be set on this machine are as follows:
Generic PCL Printer Driver for Windows
Generic PostScript Printer Driver for Windows
Generic 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 the user authentication details, consult the administrator of this machine.

If performing user authentication with an optional authentication unit (biometric type), enter the user name and password. For details, refer to the operation manual of the authentication unit (biometric type).

Specifying settings (for Windows)

1 Click the [Properties] button or the [Preferences] button on 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 this machine has been set to permit public users, the machine can be used without a user name and password.
- A default password can be registered and used rather than entering a password for each job.

5 After specifying the settings, click the [OK] button to begin printing.

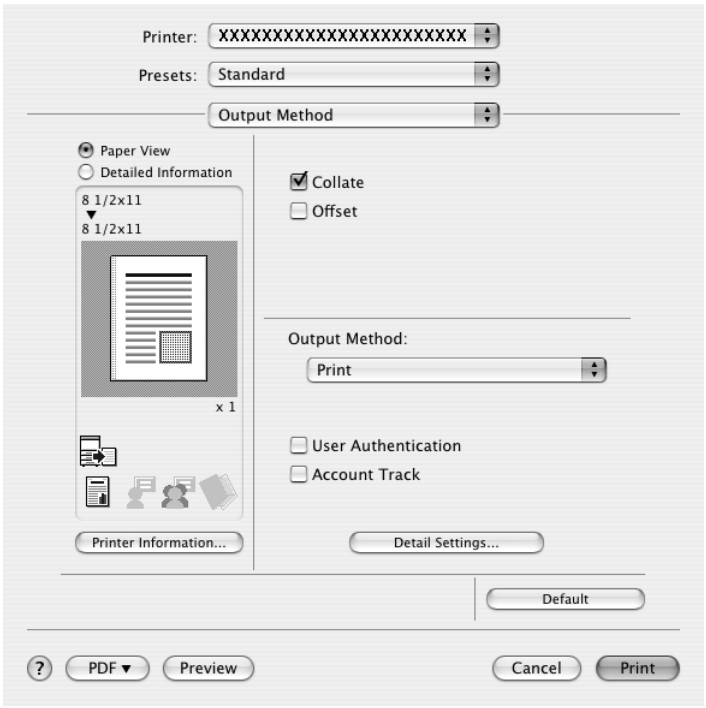
– If the entered user name is a name registered on this machine, the job is printed and counted as a job for the specified user.

Specifying settings (for Mac OS X)

1 From 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 this machine has been set to permit public users, the machine can be used without a user name and password.

Printing with this machine when account track settings have been applied

When the account track settings have been specified on this machine, you must enter a password when printing a job.

Reminder

If a print job is sent using a password that is not a registered account on this machine or if a job is sent without specifying "Account Track", the operation is not authenticated by this machine and the job is canceled.
When the account track settings are specified on this machine, the authentication operation restriction function is in mode 2, and the authentication information is not entered correctly, the applicable account is locked and cannot be accessed.

The three printer drivers that can be set on this machine are as follows:
Generic PCL Printer Driver for Windows
Generic PostScript Printer Driver for Windows
Generic PostScript PPD Printer Driver for Mac OS X

Note

If printing is not allowed, printing cannot be performed even when used by a registered account.

For the account track details, consult the administrator of this machine.

Specifying settings (for Windows)

1 Click the [Properties] button or the [Preferences] button on 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.

– A default password can be registered and used rather than entering a password for each job.

5 After specifying the settings, click the [OK] button to begin printing.

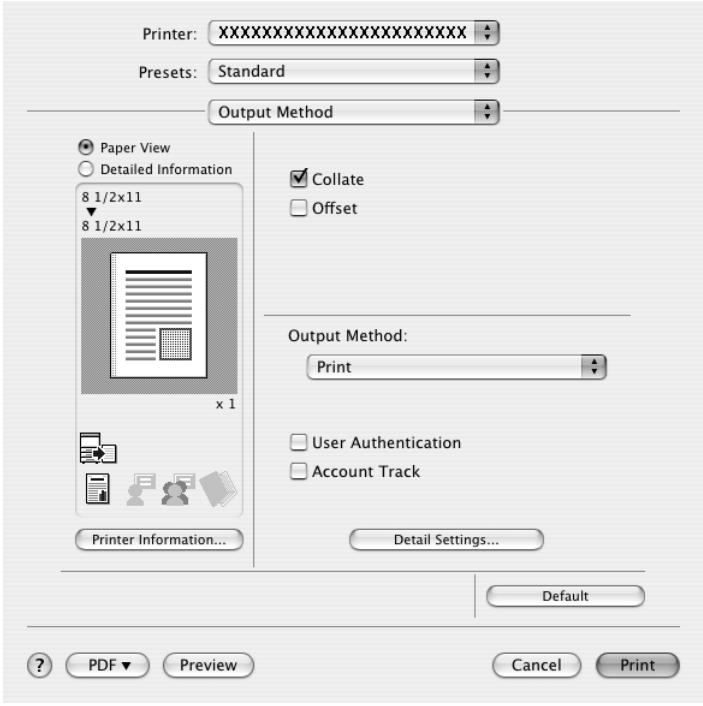
If the entered department name is a name registered on this machine, the job is printed and counted as a job for the account.

Specifying settings (for Mac OS X)

1 From the [File] menu, select "Print".

2 Select "Output Method".

3 Select the "Account Track" check box.



4 Enter the department name and password.

Job operations on Web Connection

From Web Connection, you can also check the status of the job being performed by this machine.

Detail
For details, refer to the User manual – Web Connection Operations.

11.4 Printing on banner paper (d-Color MF450)

Paper up to 1200 mm (47-1/4 inch) long can be loaded into the bypass tray and printed on using this machine with the appropriate setting specified from the control panel.

Loading banner paper and printing on it is referred to as "banner printing" throughout the manual.

Paper types

Paper width	Paper length	Paper type
210 to 297 mm (8-1/4 to 11-3/4 inch)	457.3 to 1200 mm (18 to 47-1/4 inch)	Thick 3, Thick 3 + (Duplex Side2) (210 g/m^2 to 256 g/m^2)

Note
Feed only one sheet of paper at a time.

Printer drivers and supported operating systems

The following drivers are compatible with banner paper printing.

Page description language	Printer driver	Supported operating systems
PCL (PCL XL)	Generic PCL Driver (PCL Driver)	Windows NT 4.0, Windows 2000 Professional, Windows XP Home Edition, Windows XP Professional, and Windows Server 2003
PostScript 3 Emulation	Generic PostScript Driver (PS Driver)	Windows 2000 Professional, Windows XP Home Edition, Windows XP Professional, and Windows Server 2003

To specify printer driver settings

Specify the paper sizes to be printed as custom sizes.

1 Click the Basic tab.

2 From the "Original Size" or "Paper Size" drop-down list, select "Custom Size".

The Custom Size Settings dialog box appears.

3 Specify the width and length of the custom size according to the selected measurement units.

4 Specify "Paper Type".

– Specify other settings if necessary.

5 Click the [OK] button.

Note
For the Generic PCL driver, the custom size settings can also be specified on the Settings tab of the printer driver, which can be displayed from the Printers window (for Windows XP/Server 2003, Printers and Faxes window).

To print

1 Press the [Utility/Counter] key in the control panel.

2 Touch [6 Banner Printing].

3 Touch [Allow], and then touch [OK].

4 Select a job to be printed from the computer, and then click "Print" on the "File" menu.

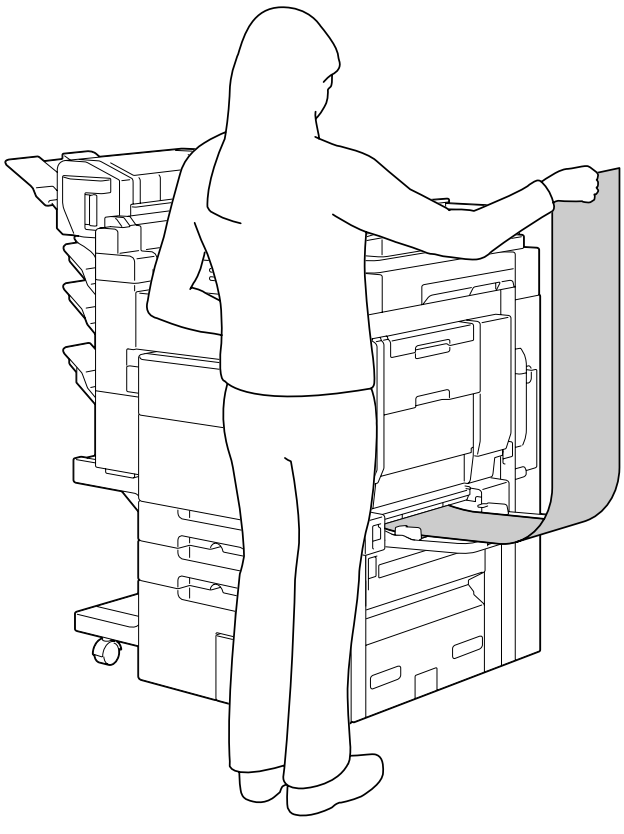
5 Specify the desired settings, and then click the [OK] button.

6 Open the bypass tray.

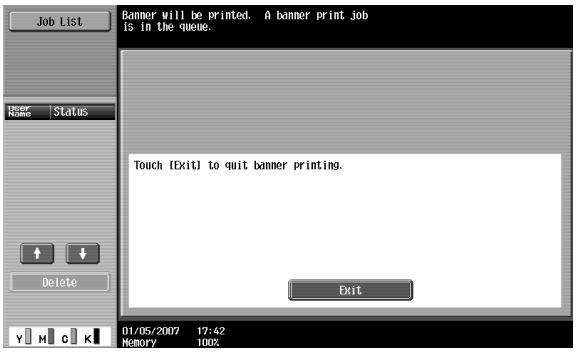
7 With the side to be printed on facing down, insert the paper as much as possible into the feed slot.

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

- Load one sheet at a time.
- Print while supporting the loaded paper with your hands.

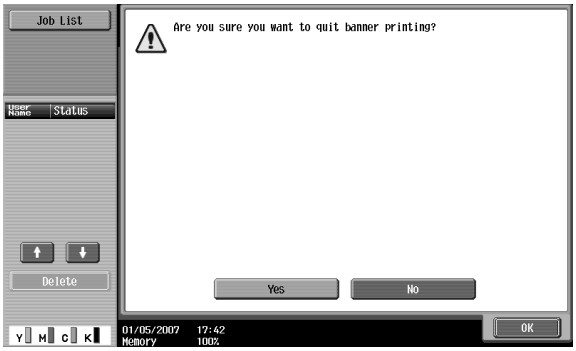


9 When printing is finished, touch [Exit].



– To continue printing, repeat steps 7 through 8.

10 Touch [Yes], and then touch [OK].



12 Troubleshooting

12 Troubleshooting

12.1 Unable to print

This chapter explains the troubleshooting procedures for possible malfunctions.

Perform the troubleshooting procedures described below if this machine does not print after you have sent a print job.

Symptom	Probable cause	Action
The message "No printers are connected." or "Print error" appears.	The printer driver selected for printing is not compatible with the printer controller.	Check the printer name selected.
	The network cable, or USB cable is disconnected.	Check that the cable is connected properly.
	An error has occurred in this machine.	Check this machine's control panel.
	Available memory space is not sufficient.	Perform a test print to check whether printing is possible.
	The network cable, or USB cable is disconnected.	Check that the cable is connected properly.
	An error has occurred in this machine.	Check this machine's control panel.
A postscript error appears.	Available computer memory space is not sufficient.	Perform a test print to check whether printing is possible.
	There is an error in the application software settings.	Refer to the users manual of the application software to check the settings.
	The file printing settings are 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 is not compatible with the printer controller.	Check the printer name selected.
	The network cable, or USB cable is disconnected.	Check that the cable is connected properly.
	An error has occurred in this machine.	Check this machine's control panel.
	A print job is queued in this machine, delaying printing.	Check the job order on the Active Jobs list of the machine's control panel.
	"Save in User Box" was selected for the print job.	Check if the print job is stored on the Box screen of this machine's control panel.
	"Secure Print" was selected for the print job.	Check if the print job is held on the Secure Print User Box screen of this machine's control panel.
	If the account track settings have been applied, 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).
	Available computer memory space is not sufficient.	Perform a test print to check whether printing is possible.
	The connection of this machine to the network is not yet established (while connecting to a network).	Consult with the network administrator.
	The enhanced security mode may be enabled on this machine.	Specify the authentication settings in the enhanced security mode. For details, consult with the network administrator.

If the problem persists after all of these procedures have been performed, read the User manual – Copy Operations.

12.2 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.

Symptom	Probable cause	Action
A printer driver setting cannot be selected.	Some functions cannot be combined.	Do not try to select settings that are not available.
The "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 are specified.	Check each setting in the printer driver.
	A combination of functions, although possible in the printer driver, is not possible with this machine.	
	The paper size, orientation, and other settings specified in the application have priority over those specified in the printer driver.	Enter the correct settings in the application.
The watermark cannot be printed.	The watermark is not correctly set.	Check the watermark settings.
	The watermark density is set to a level that is too low.	Check the density settings.
	Watermarks cannot be printed in graphics applications.	No watermark can be printed in this 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.	If are a large number of pages to be printed, 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 hole 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 finishers and 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 punch position in the printer driver setup dialog box.
The overlay is not printed properly.	Available computer memory space is not sufficient.	Simplify the overlay to reduce the data size.
The image is not printed properly.	Available computer memory space is not sufficient.	Simplify the image to reduce the data size.
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.

12.3 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 Setting parameters on the Administrator Setting screen have been correctly specified.

13 Appendix

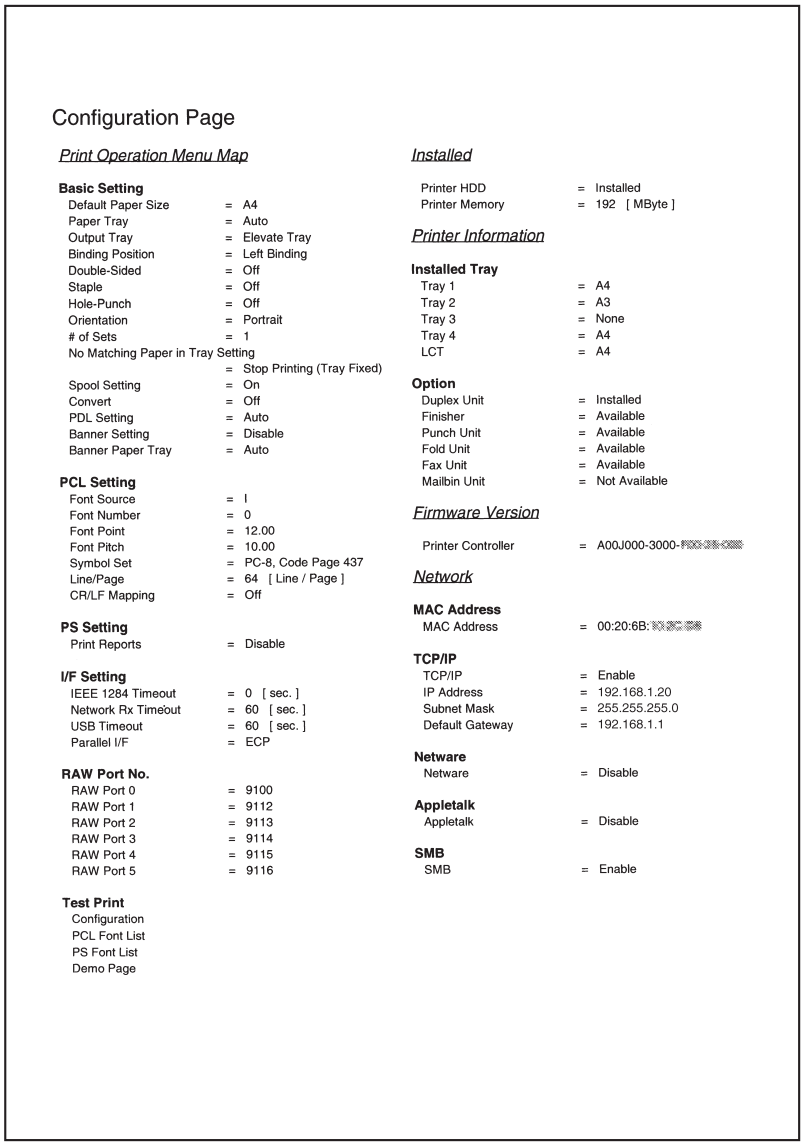
13 Appendix

13.1 Specifications

Item		Specifications
Model		Built-in printer controller
Power supply		Common with the main body
RAM		1024 MB
Hard disk		60 GB
Interface		Standard: Ethernet (10Base-T/100Base-TX/1000Base-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		45 pages/minute (color, 8-1/2 × 11 paper, and simplex) 45 pages/minute (color, 8-1/2 × 11 paper, and duplex)
Fast print time		6.5 seconds or less (color and A4 paper) d-Color MF550: 4.3 seconds or less (monochrome and A4 paper) d-Color MF450: 4.8 seconds or less (monochrome and A4 paper)
Printer language		PCL5c PCL6 (XL 3.0) Emulation PostScript 3 Emulation (3015)
Operating environment conditions		Temperature 10 to 30°C Humidity 15 – 85% RH
Resolution	Data processing	600 × 600 dpi (printing and fax operations) 400 × 400 dpi (fax operations) 200 × 200 dpi (fax operations)
	Printing	1800 (equivalent) × 600 dpi
Supported paper sizes		Maximum Standard Size
Printer fonts		PCL Latin 80 Fonts Postscript 3 Emulation Latin 137 Fonts
Compatible computers		IBM PC or compatible, and Macintosh (PowerPC or Intel Processor)
Supported operating systems	Server	Windows NT 4.0 (SP6a), Windows 2000 Server, or Windows Server 2003
	Client	d-Color MF550: Windows 98 Second Edition, Windows Me d-Color MF550/MF450: Windows 2000, Windows XP, or Windows NT 4.0 (SP6a) MacOS 9.2 or later or MacOS X 10.2, 10.3 or 10.4
Printer driver		PCL6: • Windows 2000, Windows XP (Home/Professional), or Windows Server 2003 Printer Driver • Windows XP Professional x64, Windows Server 2003 x64 Printer Driver • Windows NT 4.0 Printer Driver PS3: • Windows 2000, Windows XP (Home/Professional), Windows Server 2003 Printer Driver • Windows XP Professional x64, Windows Server 2003 x64 Printer Driver • MacOS 9.2 PPD File • MacOS X 10.2 Printer Driver • MacOS X 10.3 or MacOS X 10.4 Printer Driver

Item	Specifications
Utility	Web Connection Web browsers: Microsoft Internet Explorer 6 or later recommended (JavaScript enabled, Cookies enabled) Microsoft XML Parser MSXML3.X must be installed when using Internet Explorer 5.5. Netscape Navigator 7.02 or later (JavaScript enabled, Cookies enabled) Mozilla Firefox 1.0 or later (JavaScript enabled, Cookies enabled) Adobe® Flash® (If "Flash" is selected in View Mode, version 7.0 or later plugin is required.)
MetaFrame operating environment	This driver performs the confirmation of the operation only in the following environments. Server operating systems: Windows 2000 Advanced Server/Windows 2003 Enterprise Server MetaFrame: Citrix® MetaFrame® Presentation Server 3.0/Citrix® MetaFrame® Presentation Server 4.0 Client operating systems: Windows 2000/Windows XP ICA Client: 32 bit * For operating in an environment other than those described above, consult the dealer.

13.2 Configuration page



Configuration Page

Print Operation Menu Map

Basic Setting

Default Paper Size	=	A4
Paper Tray	=	Auto
Output Tray	=	Elevate Tray
Binding Position	=	Left Binding
Double-Sided	=	Off
Staple	=	Off
Hole-Punch	=	Off
Orientation	=	Portrait
# of Sets	=	1
No Matching Paper in Tray Setting	=	Stop Printing (Tray Fixed)
Spool Setting	=	On
Convert	=	Off
PDL Setting	=	Auto
Banner Setting	=	Disable
Banner Paper Tray	=	Auto

PCL Setting

Font Source	=	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

I/F Setting

IEEE 1284 Timeout	=	0 [sec.]
Network Rx Timeout	=	60 [sec.]
USB Timeout	=	60 [sec.]
Parallel I/F	=	ECP

RAW Port No.

RAW Port 0	=	9100
RAW Port 1	=	9112
RAW Port 2	=	9113
RAW Port 3	=	9114
RAW Port 4	=	9115
RAW Port 5	=	9116

Test Print

Configuration
PCL Font List
PS Font List
Demo Page

Installed

Printer HDD	=	Installed
Printer Memory	=	192 [MByte]

Printer Information

Installed Tray

Tray 1	=	A4
Tray 2	=	A3
Tray 3	=	None
Tray 4	=	A4
LCT	=	A4

Option

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

Firmware Version

Printer Controller	=	A00J000-3000-

Network

MAC Address

MAC Address	=	00:20:6B:

TCP/IP

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

Netware

Netware	=	Disable

Appletalk

Appletalk	=	Disable

SMB

SMB	=	Enable

13.3 Font list

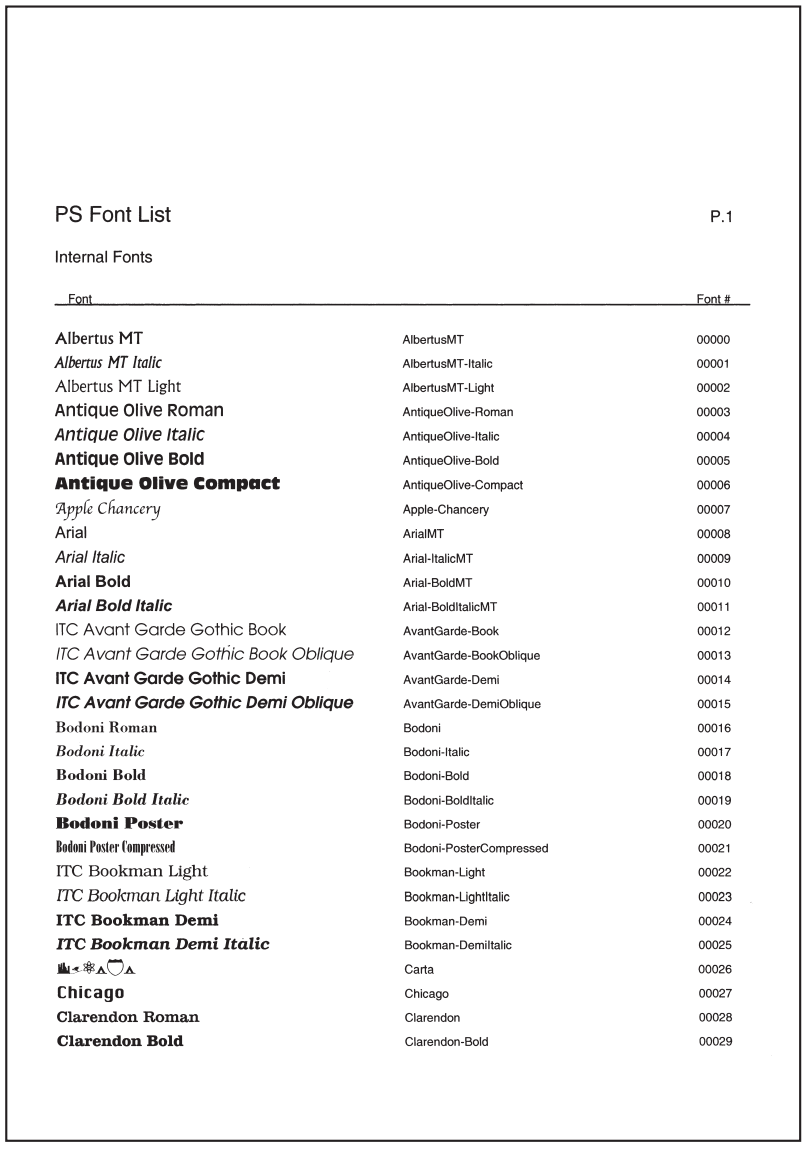
PCL font list

PCL Font List P.1

Internal 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	
CG Times Italic	Scalable	<esc>(01X<esc>(s1p12v1s0b4101T	00003	
CG Times Bold Italic	Scalable	<esc>(01X<esc>(s1p12v1s3b4101T	00004	
CG Omega	Scalable	<esc>(01X<esc>(s1p12v0s0b4113T	00005	
CG Omega Bold	Scalable	<esc>(01X<esc>(s1p12v0s3b4113T	00006	
CG Omega Italic	Scalable	<esc>(01X<esc>(s1p12v1s0b4113T	00007	
CG Omega Bold Italic	Scalable	<esc>(01X<esc>(s1p12v1s3b4113T	00008	
Coronet	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	
Univers Medium Italic	Scalable	<esc>(01X<esc>(s1p12v1s0b4148T	00013	
Univers Bold Italic	Scalable	<esc>(01X<esc>(s1p12v1s3b4148T	00014	
Univers Condensed Medium	Scalable	<esc>(01X<esc>(s1p12v4s0b4148T	00015	
Univers Condensed Bold	Scalable	<esc>(01X<esc>(s1p12v4s3b4148T	00016	
Univers Condensed Medium Italic	Scalable	<esc>(01X<esc>(s1p12v5s0b4148T	00017	
Univers Condensed Bold Italic	Scalable	<esc>(01X<esc>(s1p12v5s3b4148T	00018	
Antique Olive	Scalable	<esc>(01X<esc>(s1p12v0s0b4168T	00019	
Antique Olive Bold	Scalable	<esc>(01X<esc>(s1p12v0s3b4168T	00020	
Antique Olive Italic	Scalable	<esc>(01X<esc>(s1p12v1s0b4168T	00021	
Garamond Antiqua	Scalable	<esc>(01X<esc>(s1p12v0s0b4197T	00022	
Garamond Halbfett	Scalable	<esc>(01X<esc>(s1p12v0s3b4197T	00023	
Garamond Kursiv	Scalable	<esc>(01X<esc>(s1p12v1s0b4197T	00024	

PS font list

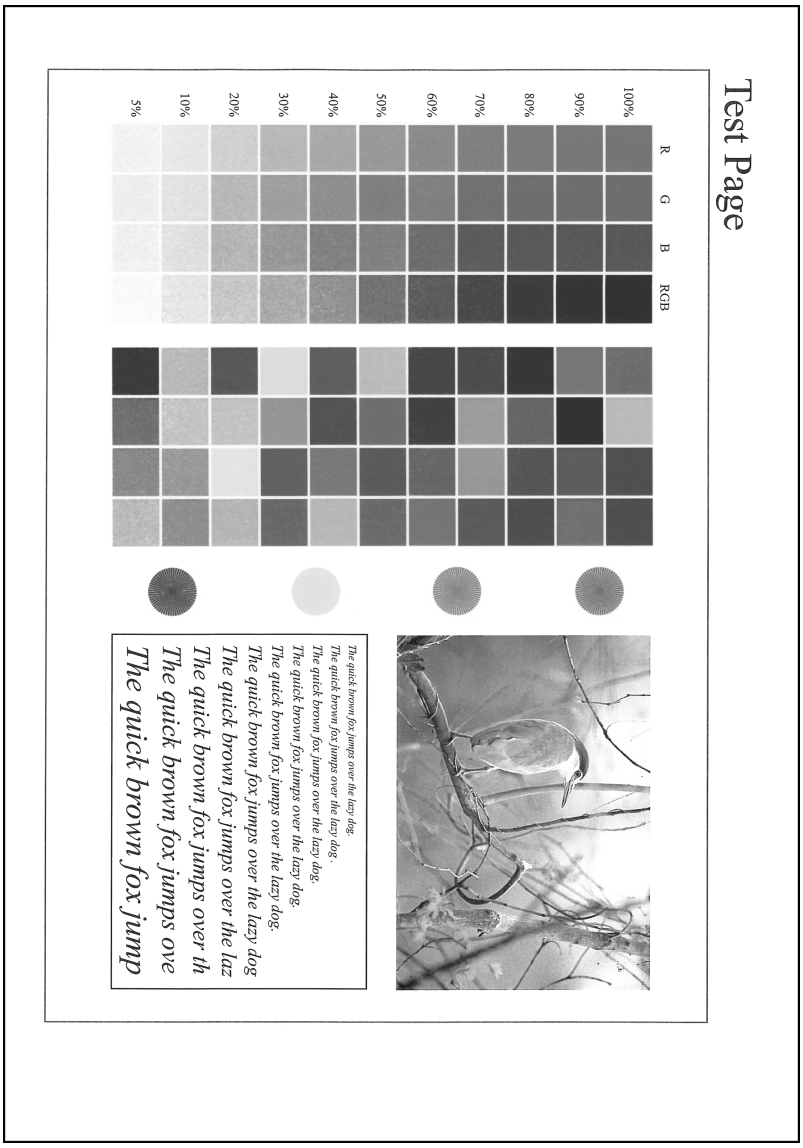


PS Font List P.1

Internal Fonts

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

Demo page


Test Page
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
5%
R
G
B
RGB
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the laz
The quick brown fox jumps over th
The quick brown fox jumps ove
The quick brown fox jump

13.4 PPD driver (Linux and applications)

PPD driver types

The PPD driver contains the PPD information for Mac OS 9, Linux, and applications.

- For Linux: Install the driver when using with Linux. (The PPD driver for Linux and the PPD driver for OpenOffice are included.)
- For applications: Install the driver when using applications such as Adobe PageMaker that require the PPD driver.

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 45C-1 OpenOffice PPD" (“GENERIC 45C-2 OpenOffice PPD" on d-Color MF450), and then click the [OK] button.

7 From the "Please Select a Suitable driver." list, select "GENERIC 45C-1 OpenOffice PPD" (“GENERIC 45C-2 OpenOffice PPD" on d-Color MF450), 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 45C-1 OpenOfficePPD" (“GENERIC 45C-2 OpenOffice PPD" on d-Color MF450) 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.

About the PPD driver for applications

PPD registration destination (example: Adobe PageMaker)

- Adobe PageMaker 6.0
  Copy the PPD file to RSR\CPPD4, which is under the folder to which PageMaker is installed.
- Adobe PageMaker 6.5/7.0
  Copy the PPD file to RSRC\<Language>\PPD4, which is under the folder to which PageMaker is installed.

To print

1 From the [File] menu, select "Print".

2 From the "PPD" box in the print dialog box, select this machine.

3 Specify "Paper" or "Features" for the printer.

4 To print, click the [Print] button.

13.5 Glossary

Term	Definition
10Base-T/100Base-TX/1000Base-T	An Ethernet standard, which is a cable consisting of twisted copper wire pairs. 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. (formarly 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.
Grayscale	Monochrome image expressive form using the gradation information from black to white
Hard disk	Large capacity storage device for storing data. The data can be stored even if the power is turned off.
Host name	Displayed name of a device over a network.

Term	Definition
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	A protocol used with NetWare and works at the network layer of the OSI reference model
IPX/SPX	Abbreviation for Internetwork Packet Exchange/Sequenced Packet Exchange. A protocol developed by Novel, 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	OHP (overhead projector) transparencies which are used for presentations.
OS	Abbreviation for Operating System. Basic software for controlling the system of a computer.
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.

Term	Definition
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.
Peer-to-peer	A network format that allows connected devices to communicate without using a dedicated server.
Plug-and-play	Ability to automatically find and use the appropriate driver when a peripheral device is connected to a computer.
Preview	A function that allows you to view an image before processing a print or scan job.
Printer buffer	Memory domain temporarily used for data processing of a print 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.
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	Print server module under a NetWare environment that monitors, changes, pauses, restarts, or cancels a print job.
Queue name	• Name specified to each device that allows printing when network printing. • Required logical printer name for LPD/LPR 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. The de facto standard protocol used by the Internet that uses IP addresses to identify each network device.
TrueType	An outline font that was developed by Apple Computer and Microsoft. It is used as a standard by Macintosh and Microsoft Windows and can be used both on a display and in print.

Term	Definition
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 on the authentication unit (biometric type) that is connected to this machine. To use the Touch & Print function, an authentication unit (biometric type) must be installed on this machine, and the finger vein pattern for each user must be registered.
USB	Abbreviation for Universal Serial Bus. A general interface standard for connecting a mouse, printer, and other devices to a computer.
Uninstall	To delete software installed on a computer
Web browser	Software such as Internet Explorer and Netscape Navigator for viewing Web pages.
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.

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