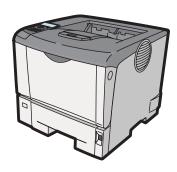


# Operating Instructions Software Guide



- 1 Preparing for Printing
- 2 Printing Documents
- 3 Printing Stored Documents
- 4 Making Printer Settings Using the Control Panel
- Monitoring and Configuring the Printer
- 6 Using a Printer Server
- 7 Mac OS X Configuration
- 8 Appendix

#### Introduction

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

Do not copy or print any item for which reproduction is prohibited by law.

Copying or printing the following items is generally prohibited by local law:

bank notes, revenue stamps, bonds, stock certificates, bank drafts, checks, passports, driver's licenses.

The preceding list is meant as a guide only and is not inclusive. We assume no responsibility for its completeness or accuracy. If you have any questions concerning the legality of copying or printing certain items, consult with your legal advisor.

#### **Important**

Contents of this manual are subject to change without prior notice.

In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

For good print quality, the manufacturer recommends that you use genuine toner from the manufacturer.

The manufacturer shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the manufacturer with your office products.

Some illustrations in this manual might be slightly different from the machine.

Certain options might not be available in some countries. For details, please contact your local dealer.

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# How to Read This Manual

# **Symbols**

This manual uses the following symbols:



Indicates points to pay attention to when using the machine, and explanations of likely causes of paper misfeeds, damage to originals, or loss of data. Be sure to read these explanations.



Indicates supplementary explanations of the machine's functions, and instructions on resolving user errors.

# Reference

This symbol is located at the end of sections. It indicates where you can find further relevant information.

[]

Indicates the names of keys on the machine's display or control panels.

Region (mainly Europe and Asia)
Region (mainly North America)

Differences in the functions of Region A and Region B models are indicated by two symbols. Read the information indicated by the symbol that corresponds to the region of the model you are using. For details about which symbol corresponds to the model you are using, see p.9 "Model-Specific Information".

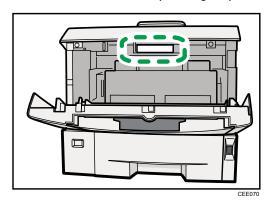
### **About IP Address**

In this manual, "IP address" covers both IPv4 and IPv6 environments. Read the instructions that are relevant to the environment you are using.

# **Model-Specific Information**

This section explains how you can identify the region your machine belongs to.

There is a label on the front cover of the printer, and it is located in the position shown below. The label contains details that identify the region your machine belongs to. Read the label.



The following information is region-specific. Read the information under the symbol that corresponds to the region of your machine.

Region A (mainly Europe and Asia)

If the label contains the following, your machine is a region A model:

- CODE XXXX -22, -27
- 220-240V

Region (mainly North America)

If the label contains the following, your machine is a region B model:

- CODE XXXX -11, -17
- 120V



Dimensions in this manual are given in two units of measure: metric and inch. If your machine is a
Region A model, refer to the metric units. If your machine is a Region B model, refer to the inch units.

# Manuals for This Printer

Read this manual carefully before you use this printer.

Refer to the manuals that are relevant to what you want to do with the printer.

### 

- · Media differ according to manual.
- The printed and electronic versions of a manual have the same contents.
- Adobe<sup>®</sup> Acrobat<sup>®</sup> Reader<sup>®</sup> /Adobe Reader<sup>®</sup> must be installed in order to view the manuals as PDF files.
- A Web browser must be installed in order to view the html manuals.

#### **Safety Information**

Contains information about safe usage of this printer.

To avoid injury and prevent damage to the printer, be sure to read this.

#### **Quick Installation Guide**

Contains procedures for removing the printer from its box, and connecting it to a computer.

#### Hardware Guide

Contains information about paper; names and functions of the parts of this printer; and procedures such as installing options, replacing consumables, responding to error messages, and resolving jams.

#### **Driver Installation Guide**

Contains procedures for installing the printer driver. This manual is included on the driver CD-ROM.

#### Software Guide (This manual)

Contains information about using this printer, its software, and its security functions.

#### **Security Guide**

This manual is for administrators of the printer. It explains security functions that you can use to prevent unauthorized use of the printer, data tampering, or information leakage. Be sure to read this manual when setting the enhanced security functions, or user and administrator authentication.

#### VM Card Extended Feature Settings Web Reference

Contains information about setting up the extended features settings using Web Image Monitor.

#### **UNIX Supplement**

Contains information about the usage of commands to operate this printer.

To obtain the "UNIX Supplement", visit our Web site or consult an authorized dealer.

This manual includes explanations of functions and settings that might not be available on this printer.

This manual is provided in English only.

# UNote

- Manuals provided are specific to printer types.
- The following software products are referred to as using general names:

Product name	General name
DeskTopBinder Lite and DeskTopBinder Professional* 1	DeskTopBinder
SmartDeviceMonitor for Client 2	SmartDeviceMonitor for Client
Enhanced Locked Print NX	ELP-NX

<sup>\*1</sup> Optional

# **List of Options**

This section provides a list of options for this printer, and how they are referred to as in this manual.

Option List	Referred to as
Hard Disk Drive Type 4310	Hard disk
Memory Unit Type G 128MB	SDRAM module
Memory Unit Type G 256 MB	SDRAM module
Region B IEEE 802.11a/g Interface Unit Type L	Wireless LAN interface unit
Region A IEEE 802.11a/g Interface Unit Type M	Wireless LAN interface unit
IEEE 1284 Interface Board Type A	IEEE 1284 interface board
SD card for NetWare printing Type G	NetWare card
VM CARD Type O	VM card
IPDS Unit Type 4310	IPDS card



• For details about the specifications of each option, see "Specifications", Hardware Guide.

# 1. Preparing for Printing

This chapter explains the preparation procedure to use this printer.

# **Before Using the Printer**

This section explains the settings, procedures, items, and other information on which the user is recommended to check before you can use this printer.

#### **Drivers and Utilities**

To use this printer, you must install its driver on your computer.

For details about the procedure for installing the printer driver, see Driver Installation Guide on the driver CD-ROM.

This printer comes with two CD-ROMs: a driver CD-ROM and a manual CD-ROM.

For details about the contents of the drivers CD-ROM, see p.15 "Software Included on the CD-ROM".

Besides drivers, there are other useful utilities available for this printer.

For details about these utilities, see p.17 "Downloading Utility Software".

# **Using User Authentication**

Using authentication, administrators manage the printer and its users. To enable authentication, information about both administrators and users must be registered in order to authenticate users via their login user names and passwords.

There are four kinds of administrator. Each administrator manages a specific area of printer usage, such as settings or user registration.

Access limits for each user are specified by the administrator responsible for user access to printer functions and documents and data stored in the printer.

When authentication is set on the printer, see p.19 "If User Authentication is Specified".

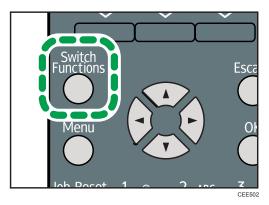
### **Accessing the Extended Features**

Various functions besides printing can be accessed using the [Switch Functions] key on this printer.

Use the following procedure to switch between applications.

7

1. Press the [Switch Functions] key.



- 2. Press the [▼] or [▲] key to select the [JavaTM/X].
- 3. Press the [OK] key.
- 4. If more than one extended feature is installed, use the [▼] or [▲] key to select the extended feature you want to access.
- 5. Press the [OK] key.



- Function switching is possible only when the VM card is installed.
- This manual explains the procedure for changing settings when 'Printer' is selected as the application.

# Software Included on the CD-ROM

This section explains the software included on the "Printer Drivers and Utilities" CD-ROM that comes with this printer.

# Viewing the Contents of the CD-ROM

This section explains how to view the contents of the CD-ROM.

- 1. Insert the CD-ROM into the CD-ROM drive.
- 2. Select a language, and then click [OK].
- Click [Browse This CD-ROM].Explorer starts and displays the contents of the CD-ROM.

#### **Printer Drivers for This Printer**

This section explains printer drivers for this printer.



 You can install the PCL printer drivers (PCL 5e and PCL 6), and the PostScript<sup>®</sup> 3<sup>TM</sup> printer driver from the CD-ROM provided with this printer or download them from the manufacturer's Web site.

Printing requires installation of the printer driver that is correct for your operating system. The following drivers are included on the CD-ROM labeled "Printer Drivers and Utilities".

Operating System	PCL 5e	PCL 6	PostScript 3
Windows XP * 1	ОК	ОК	OK
Windows Vista *2	OK	OK	OK
Windows 7 *3	ОК	ОК	OK
Windows Server 2003 *4	ОК	ОК	ОК
Windows Server 2008 *5	ОК	ОК	ОК
Mac OS X *6	_	_	OK

<sup>\* 1</sup> Microsoft Windows XP Professional Edition/Microsoft Windows XP Home Edition

<sup>\*2</sup> Microsoft Windows Vista Ultimate/Microsoft Windows Vista Enterprise/Microsoft Windows Vista Business/ Microsoft Windows Vista Home Premium/Microsoft Windows Vista Home Basic

- 1
- \*3 Microsoft Windows 7 Home Premium/Microsoft Windows 7 Professional/Microsoft Windows 7 Ultimate/ Microsoft Windows 7 Enterprise
- \*4 Microsoft Windows Server 2003 Standard Edition/Microsoft Windows Server 2003 Enterprise Edition/ Microsoft Windows Server 2003 R2 Standard Edition/Microsoft Windows Server 2003 R2 Enterprise Edition
- \*5 Microsoft Windows Server 2008 Standard / Microsoft Windows Server 2008 Enterprise / Microsoft Windows Server 2008 Standard without Hyper-V/Microsoft Windows Server 2008 Enterprise without Hyper-V/Microsoft Windows Server 2008 R2 Standard/Microsoft Windows Server 2008 R2 Enterprise
- \*6 Mac OS X 10.2 later

#### **PCL Printer Drivers**

Two kinds of PCL printer drivers (PCL 5e and PCL 6) are included. These drivers allow your computer to communicate with this printer using a printer language.

#### **PostScript 3 Printer Driver**

PostScript 3 printer driver allows the computer to communicate with the printer using a printer language.

#### **PPD** files

PPD files allow the printer driver to enable specific printer functions.

#### Font Manager

For installing new screen fonts, or organizing and managing fonts already in the system. For details about Font Manager, see the manual on the CD-ROM labeled "Printer Drivers and Utilities".



- Some applications may require installation of the PCL 5e printer driver.
- For details about installation procedure, see Driver Installation Guide.

# **Downloading Utility Software**

This section explains the utility software for this printer.

#### SmartDeviceMonitor for Admin

This section describes the functions available with SmartDeviceMonitor for Admin.

SmartDeviceMonitor for Admin is an application that monitors network printers. It can monitor multiple network printers using IP address. We recommend that network administrators use this application.

SmartDeviceMonitor for Admin has the following functions:

- Group management for the machines
- Monitoring the machines
- Operation restriction
- Managing the Address Book
- Per-user counters
- User restriction

SmartDeviceMonitor for Admin with full functionality can be purchased from your local dealer. Contact your local dealer for information on purchasing the software.

SmartDeviceMonitor for Admin with limited functionality is available as a free download. Contact your local dealer for information on downloading the software.



For details about the functionality, see the manual for SmartDeviceMonitor for Admin.

# DeskTopBinder

This section describes the functions available with DeskTopBinder.

DeskTopBinder is to be installed on the client computers for integration and management of various kinds of files such as scan files, files created with applications, and existing scan files. This software allows you to use various functions for stored scan files such as viewing stored files. Also, with the ScanRouter delivery software, you can view the files stored in in-trays of the delivery server, or use other functions for stored files.

DeskTopBinder Professional provides the full functionality of the software. Contact your local dealer for information on purchasing the software.

DeskTopBinder Lite with limited functionality is available as a free download. Contact your local dealer for information on downloading the software.



• For details about the functionality, see Help of DeskTopBinder.

1

# SmartDeviceMonitor for Client

This section describes the functions available with SmartDeviceMonitor for Client.

SmartDeviceMonitor for Client allows you to manage and print various data such as files created with an application, images scanned with a scanner, and existing images as one document.

SmartDeviceMonitor for Client has the following functions:

- Checking printer supplies such as paper or toner
- Checking results of print jobs executed from the computer

SmartDeviceMonitor for Client is available as a free download. Contact your local dealer for information on downloading the software.

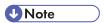


• For details about the functionality, see Help of SmartDeviceMonitor for Client.

# If User Authentication is Specified

When user authentication (User Code Authentication, Basic Authentication, Windows Authentication, LDAP Authentication, or Integration Server Authentication) is specified, an authentication screen appears whenever a user attempts to use the printer. The printer is usable only if the user enters a valid login user name and password on this screen.

When authentication is specified, users must log in to use the printer and log out when they have finished using it. Logging out prevents unauthorized usage of the printer, so users must be sure to log out.



- Consult the User Administrator about your login user name, password, and user code.
- For user code authentication, enter a number registered in the Address Book as User Code.

#### **User Code Authentication (Using the Printer Driver)**

To specify User Code using the printer driver, you must specify a user code in the printer Printing Preference of the printer driver. The following procedure explains how to configure the printer driver settings under Windows XP. If you are using another operating system, the procedure might vary slightly.

- 1. On the [Start] menu, click [Printers and Faxes].
- 2. Click the icon of the printer you want to use.
- 3. On the [File] menu, click [Printing Preferences...].
- 4. Click the [Detailed Settings] tab.
- 5. In the [Menu:] box, click the [Job Setup] icon.
- 6. Enter the user code in [User Code:], using up to 8 numeric characters.
- 7. Click [OK].

### Log in (Using the Control Panel)

Use the following procedure to log in when Basic Authentication, Windows Authentication, LDAP Authentication, or Integration Server Authentication is enabled.

- 1. Press the [Menu] key.
- 2. Press [Login].
- 3. Enter the login user name, and then press the [OK] key.
- 4. Enter the login password, and then press the [OK] key.

When the user is authenticated, the screen for the function you are using appears.

# Log out (Using the Control Panel)

Use the following procedure to log out when Basic Authentication, Windows Authentication, or LDAP Authentication is set.

- 1. Press the [Menu] key.
- 2. Press [Logout].
- 3. Press [Yes].



Users who log in using the printer driver do not have to log out.

### Log in (Using the Printer Driver)

When Basic Authentication, Windows Authentication, or LDAP Authentication is set, users must enter a login user name and password to use the printer and/or print an individual job. The following procedure explains how to configure the printer driver settings under Windows XP. If you are using another operating system, the procedure might vary slightly.

#### **Setting Authentication**

- 1. On the [Start] menu, click [Printers and Faxes].
- 2. Click the icon of the printer you want to specify authentication for.
- 3. On the [File] menu, click [Properties].
- 4. Click the [Advanced Options] tab.
- 5. On the [Authentication] menu, select [User Authentication].
- 6. Click [OK].

#### Setting Authentication for individual print jobs

- 1. On the [Start] menu, click [Printers and Faxes].
- 2. Click icon of the printer you want to specify authentication for.
- 3. On the [File] menu, click [Printing Preferences...].
- 4. Click the [Detailed Settings] tab.
- 5. In the [Menu:] box, click the [Job Setup] icon.
- 6. Click [Authentication...].
- 7. In [Login User Name:], enter a login user name using up to 32 characters.
- 8. In [Login Password:], enter a login password using up to 128 characters. Then, in [Reenter the confirmation password:], enter the login password again, and then click [OK].

# Log in (Using Web Image Monitor)

Use the following procedure to log in to the printer via Web Image Monitor.

- 1. Click [Login] in the Header area of Web Image Monitor.
- 2. Enter a login user name and password, and then click [Login].

Depending on the configuration of your Web browser, the login user name and password might be saved. If you do not want to save them, configure your Web browser's settings so that this information is not saved.



- If User Code Authentication is used, Web Image Monitor cannot be used to log in to the printer.
- The procedure may differ depending on Web Image Monitor used.
- For details about the login user name and password, consult your network administrator.

# Log out (Using Web Image Monitor)

Use the following procedure to log out of Web Image Monitor.

1. Click [Logout] to log out.



• Delete the cache memory in Web Image Monitor after logging out.

# 2. Printing Documents

This chapter explains how to print documents using the printer driver. It also describes the procedure for configuring PDF Direct Print and other printing functions.

# Displaying the Printer Driver Settings Screen

This section explains how to open and configure the printer driver properties.

The following procedure explains how to configure the printer driver settings under Windows XP. If you are using another operating system, the procedure might vary slightly.

#### **Making Printer Default Settings - The Printer Properties**

### **Important**

- To change the printer's default settings (including settings for options), log on using an account that
  has Manage Printers permission. Members of the Administrators group have Manage Printers
  permission by default.
- You cannot change the printer default settings for individual users. Settings made in the [Printer Properties] dialog box are applied to all users.
- 1. On the [Start] menu, click [Printers and Faxes].
- 2. Click the icon of the printer you want to use.
- 3. On the [File] menu, click [Properties].
- 4. Make the settings you require, and then click [OK].

# **U**Note

- Depending on the applications, the settings you make here may not be used as the default settings.
- For details, see the printer driver Help.

# **Making Printer Default Settings - Printing Preferences**

# 

- When the printer driver is distributed from the print server, the setting values specified by the server are displayed as the default for [Printing Defaults...].
- 1. On the [Start] menu, click [Printers and Faxes].
- 2. Click the icon of the printer you want to use.
- 3. On the [File] menu, click [Printing Preferences...].

2

4. Make the settings you require, and then click [OK].

The setting is temporarily registered as [Unregistered] in the [One Click Preset List:] area.



- Depending on the applications, the settings you make here may not be used as the default settings.
- The [Unregistered] setting is invalid if the other [One Click Presets] icon is selected. If you wish to confirm the [Unregistered] setting, click [Register Current Settings...]. For details about confirming the setting, see p.24 "Making Printer Settings One Click Presets".
- For details, see the printer driver Help.

### **Making Printer Settings from an Application**

You can make printer settings for a specific application.

To make printer settings for a specific application, open the [Printing Preferences] dialog box from that application. The following procedure explains how to make printer settings for a specific application using Windows XP WordPad as an example.

- 1. On the [File] menu, click [Print...].
- 2. In the [Select Printer] list, select the printer you want to use.
- 3. Click [Preferences].
- 4. Make the settings you require, and then click [OK].



- Procedures for opening the [Printing Preferences] dialog box vary depending on the application. For details, see the manuals provided with the application.
- Any settings you make using this procedure apply to the current application only.
- General users can change the properties displayed in the print dialog box of an application. Settings
  made here are used the defaults when printing from the application.
- For details, see the printer driver Help.

# **Making Printer Settings - One Click Presets**

This section explains how to register and use one click presets.

Each function explained in this section is preconfigured and registered under [One Click Preset List:] on the [One Click Presets] tab.

You can apply the relevant setting simply by clicking on the one click preset name. This helps to avoid incorrect settings and misprints.

2

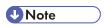
One click presets can be added, modified, and deleted as required. By using registered one click presets, users without in-depth knowledge of the printer driver can utilize advanced printing functions easily.

Follow the procedure to register one click presets.

- 1. In the application, on the [File] menu, click [Print].
- 2. Select the printer, and then open the [Printing Preferences] dialog box in the document's native application.
- 3. Make the settings you require.
- 4. Click [Register Current Settings...].

Enter a name and comment that describe the setting, and then click [OK]. The newly registered icon appears with its registered name in the [One Click Preset List:] area.

5. Click [OK].



- Under Windows operating systems, this function is available through the PCL 6 or PostScript 3 printer driver.
- For details about modifying and deleting one click presets, see the printer driver Help.

# **Frequently Used Print Methods**

This section explains how to use the various printing functions including normal printing, duplex printing, and combine printing.

Each function described in this section is configured and registered under "One Click Presets". You can also change the parameters for each function by modifying "One Click Presets". For details about custom settings, see p.24 "Making Printer Settings - One Click Presets".

### Standard Printing

Use the following procedure to print documents using the normal printing function with the printer driver.

### **Important**

- If you are using a printer with ELP-NX installed, all print jobs for which "Normal Print" or "Locked Print"
  is specified are stored in ELP-NX when user authentication is set. After issuing the print command from
  the printer driver, log in to ELP-NX and print the job.
- If you are using a printer with ELP-NX installed, all print jobs for which "Locked Print" is specified are stored in ELP-NX when user authentication is not set. Also note that any jobs for which "Locked Print" is not specified will be deleted according to the default setting of ELP-NX.
- For details about how to print using ELP-NX, see the manuals provided with the application.
- For details about the option settings of ELP-NX, consult your administrator.
- Before printing, make sure that the settings for the installed options and loaded paper are correctly configured.

#### For the PCL 6 printer driver:

- 1. In the application, on the [File] menu, click [Print].
- 2. Select the printer, and then open the [Printing Preferences] dialog box in the document's native application.
- 3. Click the [One Click Presets] tab, if it is not already selected.
- 4. In the [Job Type:] list, select [Normal Print].
  If you want to print multiple copies, specify a number of sets in the [Copies:] box.
- 5. In the [Document Size:] list, select the size of the original to be printed.
- 6. In the [Orientation:] list, select [Portrait] or [Landscape] as the orientation of the original.
- In the [Input Tray] list, select the paper tray that contains the paper you want to print onto.

If you select [Auto Tray Select] in the [Input Tray] list, the source tray is automatically selected according to the paper size and type specified.

- 8. In the [Paper Type:] list, select the type of paper that is loaded in the paper tray.
- 9. To save current setting in the One Click Preset List, click [Register Current Settings...].
  Enter a name and comment that describe the setting, and then click [OK]. The newly registered icon appears in the [One Click Preset List:] area.
- 10. Click [OK] to close the Printing Preferences dialog box.
- 11. Print the document using the print function in the document's native application.

#### For the PCL 5e printer driver:

- 1. In the application, on the [File] menu, click [Print].
- Select the printer, and then open the [Printing Preferences] dialog box in the document's native application.
- In the [Job Type:] list, select [Normal Print].
   If you want to print multiple copies, specify a number of sets in the [Copies:] box.
- 4. In the [Orientation:] list, select [Portrait] or [Landscape] as the orientation of the original.
- 5. Click the [Paper] tab.
- 6. In the [Document Size:] list, select the size of the original to be printed.
- 7. In the [Input Tray:] list, select the paper tray that contains the paper you want to print onto.
  - If you select [Auto Tray Select] in the [Input Tray:] list, the source tray is automatically selected according to the paper size and type specified.
- 8. In the [Type:] list, select the type of paper that is loaded in the paper tray.
- 9. Click [OK] to close the Printing Preferences dialog box.
- 10. Print the document using the print function in the document's native application.



- The types of paper loaded in the paper trays are indicated on the printer's display. This allows you
  to see which tray the selected paper type is loaded in. However, the paper type setting available in
  the printing preference dialog box might be different from the type indicated on the printer's display.
- If a warning message appears notifying you of a paper type or size mismatch see p.58 "If Errors Occur with the Specified Paper Size and Type".

# **Performing Duplex or Booklet Printing**

This section explains how to print on both sides of each page using the printer driver.

#### For the PCL 6 printer driver:

- 1. In the application, on the [File] menu, click [Print].
- 2. Select the printer, and then open the [Printing Preferences] dialog box in the document's native application.
- 3. To use an existing One Click Presets, click the [One Click Presets] tab, and then click the icon in the [One Click Preset List:] box.

If you do not wish to modify a custom setting that is already registered in the printer driver, change settings such as paper size and source tray as required, and then proceed to step 9.

- 4. Click the [Detailed Settings] tab.
- 5. In the [Menu:] box, click the [Edit] icon.
- 6. Select duplex or booklet printing.

When duplex printing is specified, select the method for binding the output pages in the [2 sided:] list. For details, see p.29 "Types of duplex printing".

When booklet printing is specified, select the method for binding the output pages in the [Booklet:] list. For details, see p.30 "Types of booklet printing".

- 7. Change any other print settings if necessary.
- 8. To save current setting in the One Click Preset List, click [Register Current Settings...].

  Enter a name and comment that describe the setting, and then click [OK]. The newly registered icon appears in the [One Click Preset List:] area.
- 9. Click [OK] to close the Printing Preferences dialog box.
- 10. Print the document using the print function in the document's native application.

#### For the PCL 5e printer driver:

- 1. In the application, on the [File] menu, click [Print].
- 2. Select the printer, and then open the [Printing Preferences] dialog box in the document's native application.
- 3. Select duplex or booklet printing in the [Duplex:] list.

For details about the different methods of binding that can be selected, see p.29 "Types of duplex printing" or p.30 "Types of booklet printing".

- 4. Change any other print settings if necessary.
- 5. Click [OK] to close the Printing Preferences dialog box.
- 6. Print the document using the print function in the document's native application.



• If the document contains pages with different original sizes, page breaks may occur.

### Paper sizes and types supported by duplex printing function

This section explains the paper sizes and types that can be used with the duplex printing function.

#### Paper sizes supported by duplex printing function

- A4D
- A5□□
- B5□
- 8<sup>1</sup>/<sub>2</sub>"×14"D
- $8^{1}/_{2}$ " × 13 " $\square$
- 8<sup>1</sup>/<sub>2</sub>"×11"
- 8<sup>1</sup>/<sub>4</sub>"×13"□
- 8"×13"D
- $5^{1}/_{2}$ " ×  $8^{1}/_{2}$ "  $\square$
- 16K□



• Duplex printing on A5 $\square$  or  $5^1/2$  "  $\times$   $8^1/2$  " $\square$  is supported only by Tray 1 and the bypass tray.

#### Paper types supported by duplex printing function

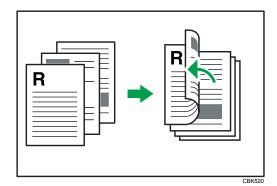
- Plain
- Letterhead
- Recycled

### Types of duplex printing

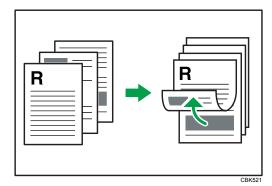
This section explains the page binding methods available when using the duplex printing function. When using the duplex printing function, you can select whether to bind pages by the left or top edge.

#### 2 sided:

• Open to Left



Open to Top



UNote

• To specify duplex printing in the PCL 5e printer driver, select [Open to Left] or [Open to Top] in the [Duplex:] list in the printer properties dialog box.

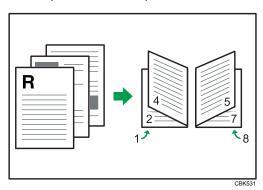
### Types of booklet printing

This section explains the page binding methods available when using the booklet printing function. When using the booklet printing function, you can select the direction to which the pages open.

#### **Booklet:**

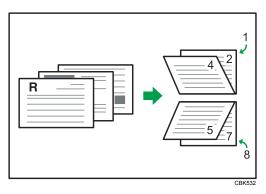
Magazine

When [Portrait] is selected in the [Orientation:] list in the printer properties dialog box. For details, see the printer driver Help.



When [Landscape] is selected in the [Orientation:] list in the printer properties dialog box. For details, see the printer driver Help.







 To specify booklet printing in the PCL 5e printer driver, select [Booklet] in the [Duplex:] list in the printer properties dialog box.

# Combining Multiple Pages into Single Page

This section explains how to print multiple pages onto a single sheet. The combine printing function allows you to economize on paper by printing multiple sheets at reduced size onto a single sheet.



• The combine printing function is not available on a custom size paper. To use the combine printing function, specify a standard size paper.

#### For the PCL 6 printer driver:

- 1. In the application, on the [File] menu, click [Print].
- Select the printer, and then open the [Printing Preferences] dialog box in the document's native application.
- 3. To use an existing One Click Presets, click the [One Click Presets] tab, and then click the icon in the [One Click Preset List:] box.
  - If you do not wish to modify a custom setting that is already registered in the printer driver, change settings such as paper size and source tray as required, and then proceed to step 9.
- 4. Click the [Detailed Settings] tab.
- 5. In the [Menu:] box, click the [Edit] icon.
- 6. Select the combination pattern in the [Layout:] list, and then specify the method for combining pages in the [Page Order:] list.
  - To draw a border line around each page, select [Draw Frame Border].
- 7. Change any other print settings if necessary.

- 8. To save current setting in the One Click Preset List, click [Register Current Settings...].

  Enter a name and comment that describe the setting, and then click [OK]. The newly registered icon appears in the [One Click Preset List:] area.
- 9. Click [OK] to close the Printing Preferences dialog box.
- 10. Print the document using the print function in the document's native application.

#### For the PCL 5e printer driver:

- 1. In the application, on the [File] menu, click [Print].
- Select the printer, and then open the [Printing Preferences] dialog box in the document's native application.
- 3. Select the combination pattern in the [Layout:] list, and then specify the method for combining pages in the [Page Order:] list.
  - To draw a border line around each page, select [Draw Frame Border].
- 4. Change any other print settings if necessary.
- 5. Click [OK] to close the Printing Preferences dialog box.
- 6. Print the document using the print function in the document's native application.



- If the document contains pages with different original sizes, page breaks may occur.
- If the application you are using also has a combine function, disable it. If the application's combine function is also enabled when the driver's combine function enabled, incorrect printing is likely.
- For details about combining pages with different orientations and other advanced functions, see the printer driver Help.

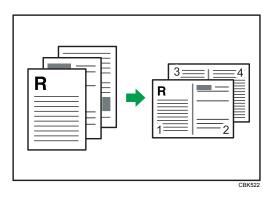
#### Types of combine printing

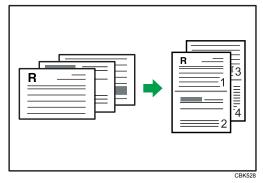
This section explains the different methods of combine printing that are available. Combine printing allows you to print 2, 4, 6, 9, or 16 pages at reduced size onto a single sheet and to specify a page ordering pattern for the combination. For 2 pages per sheet combine, you can select from two patterns. When combining 4 or more pages onto a single sheet of paper, four patterns are available. The following illustrations show example page ordering patterns for 2- and 4-page combinations.

#### 2 Pages per Sheet

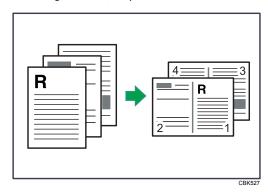
From Left to Right/Top to Bottom

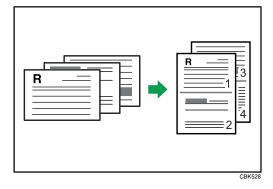






• From Right to Left/Top to Bottom

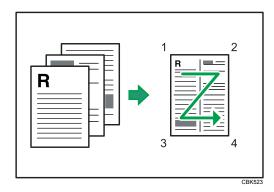




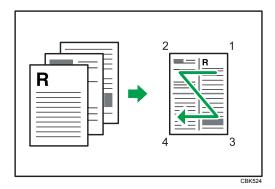
When using the PCL 5e printer driver, select one of the following four patterns: [Right, then Down], [Left, then Down], [Down, then Right], [Down, then Left]

# 4 Pages per Sheet

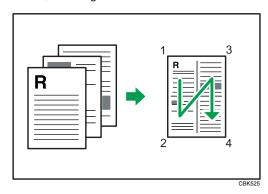
• Right, then Down



• Left, then Down

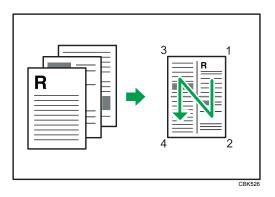


• Down, then Right



• Down, then Left





# **Advanced Printing**

This section explains the printer's advanced printing functions.

Other than the functions that can be configured in the [One Click Presets] tab, various print functions can be setup from each [Menu:] icon in the [Detailed Settings] tab. The settings for each function described in this section can be changed by using the following menus.

Using the PCL6 printer driver as an example, the following procedure explains how to configure the printer's advanced printing functions.

#### Menu Names and Brief Overview of Each Function

The following is an overview of the settings that are available on the [Basic], [Paper], and [Effects] menus.

#### [Basic] menu

You can specify the type of the paper you want to print on.

• Document Size:

If the printer's trays do not contain paper matching the settings of the print job, you can proceed with printing by using the bypass tray.

For details about this function, see p.37 "Specifying Printer Driver or Print Command Priority".

#### [Paper] menu

You can enable/disable the cover and slip sheets function.

• Paper Type:

You can specify the type of the paper you want to print on. If the printer's trays do not contain paper matching the settings of the print job, you can proceed with printing by using the bypass tray.

For details about this function, see p.37 "Specifying Printer Driver or Print Command Priority".

Front Cover

Using this function, you can insert cover sheets fed from a different tray to that of the main paper, and print on them. For details, see p.39 "Printing on Cover Sheet".

• Slip Sheet

Using this function, you can insert slip sheets fed from a different tray to that of the main paper, and print on them. For details, see p.40 "Inserting Slip Sheets".

#### [Effects] menu

You can enable/disable the Watermark function.

The Watermark function prints text under the main content of every page of a document. For details about this function, see p.42 "Printing with Watermarks".



For details about the menu items not explained in this section, see the printer driver Help.

# **Specifying Printer Driver or Print Command Priority**

If you select [Any Size/Type] or [Any Custom Size/Type] for [Bypass Tray] in [Tray Setting Priority] under [Print Settings] using the control panel, you can print onto a specified paper without changing or confirming the paper settings for print jobs.

If the printer's trays do not contain paper matching the settings of the print job, you can proceed with printing by applying the paper settings specified in the print job to paper fed from the bypass tray. You do not need to change the paper settings using the control panel, even if you frequently use paper of different sizes, or if you are printing onto an unusual type of paper.

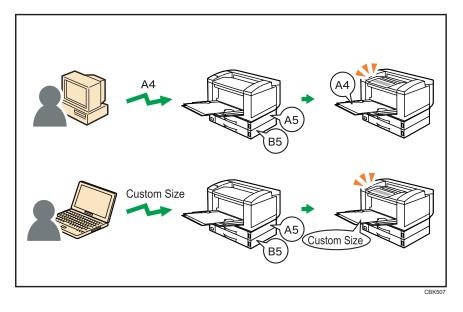
# 

- To continue printing from the bypass tray onto all paper sizes, select [Any Size/Type] for [Bypass Tray] in [Tray Setting Priority] under [Print Settings]. To continue printing from the bypass tray onto custom size paper only, select [Any Custom Size/Type] for [Bypass Tray] in [Tray Setting Priority] under [Print Settings]. For details about each setting on the Print Settings menu, see p.108 "Print Settings Menu Parameters".
- Select [Auto Tray Select] in the printer driver. If [Auto Tray Select] is specified when a job is sent to
  the printer, the matching tray will be detected in the order specified in [Tray Priority] under [Paper
  Input]. If you select [Bypass Tray] for [Tray Priority], paper will always be fed from the bypass tray,
  as long as paper is loaded there. For details about printer driver settings, see p.36 "Menu Names
  and Brief Overview of Each Function". For details about the [Tray Priority] setting, see p.89 "Paper
  Input Menu Parameters".

If you select [Any Size/Type] or [Any Custom Size/Type] for the bypass tray, jobs will be printed in the following manner.

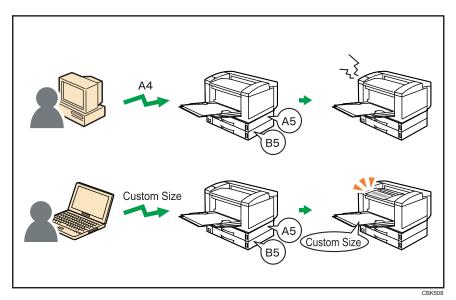
#### Any Size/Type

If the printer's trays do not contain paper matching the settings of the print job, printing can proceed from the bypass tray with the job's settings applied.



#### **Any Custom Size/Type**

If the printer's trays do not contain paper matching the settings of the print job but custom paper was specified using the printer driver or by print command, printing can proceed from the bypass tray with the job's settings applied.



# **U** Note

- When this function is enabled, printing may be slower than usual.
- If paper is not loaded in the bypass tray when a job is received, a message prompting you to load paper will appear on the control panel. When this message appears, load paper of the indicated size and type print side down on the bypass tray.

- When printing a job that consists of pages of different sizes and the sheets of corresponding sizes are
  not loaded in any of the printer's paper trays, each of these pages will be printed on the sheets fed
  from the bypass tray. Only the pages for which the matching paper sizes are loaded in the printer's
  paper trays will be printed on the sheets fed from the printer's paper trays.
- If the paper size or type specified for the print job does not match the paper loaded on the bypass tray, a message warning you of the mismatch will appear on the control panel. For the procedure to resolve this problem, see p.60 "Proceeding with Printing Using the Bypass Tray".

# **Printing on Cover Sheet**

Using this function, you can insert cover sheets fed from a different tray to that of the main paper, and print on them.

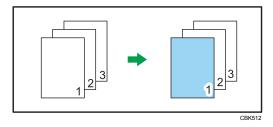


• To use this function, Collate must be set.

Prints the first page of the document on the sheet for the cover page.

#### Print on one side

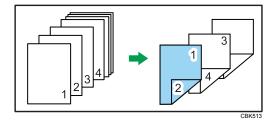
Prints on one side of the cover sheet only, even when duplex printing is selected.



#### Print on both sides

Prints on both sides of the cover sheet when duplex printing is selected.

• Cover sheet printed on both sides

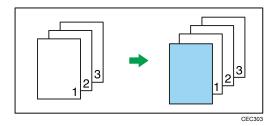


• Cover sheet printed on one side

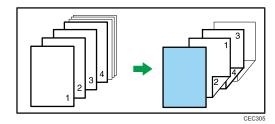
**2** )

#### **Blank**

• When printing one side



• When printing both side



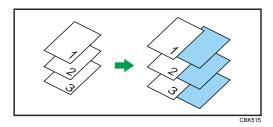


- The cover sheets should be the same size and orientation as the body of the paper.
- If "Auto Tray Select" is set for the body paper feed tray, body paper will be delivered from a tray that contains paper set in portrait orientation. Therefore, if the cover paper is set to landscape orientation, the orientation of the cover and body paper will be different.
- For printing methods, see the printer driver Help.

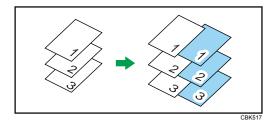
# **Inserting Slip Sheets**

# Inserting a slip sheet between each page

• Leave Blank

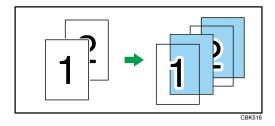


• Print on Slip Sheet

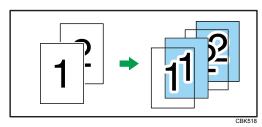


## Inserting a slip sheet between OHP transparencies

• Leave Blank



Print on Slip Sheet



# **U** Note

- Collate cannot be set when using slip sheets.
- When the duplex printing or cover printing is set, you cannot insert slip sheets.
- The slip sheet should be the same size and orientation as the body paper.
- If "Auto Tray Select" has been set as the paper feed tray for the body paper, the paper will be delivered from a tray containing paper in  $\square$  orientation. Therefore, when the slip sheet has been set to  $\square$  orientation, the orientation of the output slip sheet and body paper will be different.
- The same paper feed tray cannot be set for the body of the document and slip sheets.

# **Printing with Watermarks**

Using this function, you can print documents with text watermarks.

This function increases a document's security and identifiability by embedding a specified text (watermark) on every page. You can specify only one type of watermark at a time.



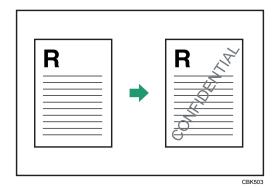
• You can create and apply custom watermarks. For details about creating original watermarks, see the printer driver Help.

# Types of watermarks

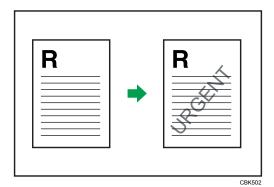
This section explains the types of watermarks available.

Following are the pre-registered text watermarks that are available:

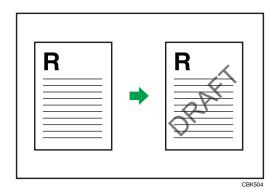
CONFIDENTIAL



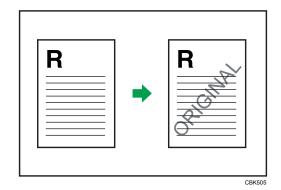
URGENT



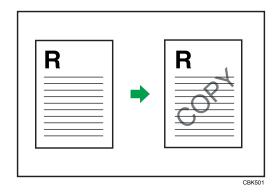
DRAFT



• ORIGINAL



• COPY



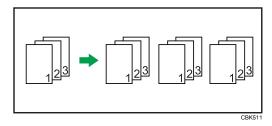
# **Collate Function**

This section explains the printer's Collate function.

The Collate function allows you to print while sorting printouts into page-ordered sets, such as when printing multiple copies of meeting materials.

- Up to 150 pages can be stored in the printer's RAM. If the hard disk is installed, up to 1,000 pages can be stored.
- Collate will be canceled if an error occurs during printing of the first set.

Output can be assembled as sets in sequential order.



Note

• For printing methods, see the printer driver Help.

# **Spool Printing**

Spool Printing allows print jobs transferred from a computer to be temporarily stored, and then prints them after they are transferred. This shortens printing time as it maximizes printer efficiency.

With Spool Printing, the print data is saved in the hard disk before printing.

# 

- This function is available only if the hard disk is installed on the printer.
- Use the "spoolsw clear job" telnet command to clear a spooled print job. Do not turn off the printer
  or computer while a print job is being spooled and the Data In is flashing. Print jobs that are interrupted
  in this way remain on the printer's hard disk and will finish printing out when the printer is turned back
  on.
- The Spool Printing function is available for data received using "diprint", "lpr", "ipp", "ftp", "sftp (TCP/IP (IPv6))", and "wsd (printer)".
- When using diprint, the Spool Printing function cannot be used with bi-directional communication.
- The domain reserved for spool printing is about 1 GB.
- When Spool Printing is on, the size of a single print job cannot exceed 500 MB.
- When receiving jobs from multiple computers, the printer can spool a maximum of ten lpr jobs, and
  only one "diprint", "ipp", "ftp", "sftp", "smb", or "wsd (printer)" job. If the printer's spooling capacity
  is exceeded, newer jobs cannot be printed. You must wait before sending further jobs.

# **U** Note

- Printing the first page with Spool Printing will be slow.
- The computer requires less print processing time when large amounts of data are spooled.
- Stored spool jobs can be viewed or deleted using Web Image Monitor.
- The list of spool jobs cannot be viewed from the printer's control panel.
- For information about the "spoolsw clear job" command on the telnet, see UNIX Supplement.

# **Setting Spool Printing**

Spool printing settings can be made using control panel or telnet or Web Image Monitor.

- Using control panel
   In [System] menu, select [On] in [Spool Printing]. For details about control panel, see p. 102 "System Menu".
- Using Web Image Monitor
   Click [Configuration] in the menu area, and then set [Spool Printing] in [System] under "Device Settings" to [Active].

Using telnet
 Enter "spoolsw spool on".



- For details about Web Image Monitor, see Web Image Monitor Help.
- For details about "Using telnet", see UNIX Supplement.

# Viewing or Deleting Spooled Jobs Using Web Image Monitor

Follow the procedure below to check or delete spooled jobs using Web Image Monitor.

- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. In the menu area, click [Job].
- 3. On the [Printer] menu, click [Spool Printing].
- 4. To delete a job, select the check box of the job you want to delete, and then click [Delete].
  The selected job is deleted.
- 5. Click [Logout].
- 6. Quit Web Image Monitor.



• For details about Web Image Monitor, see Web Image Monitor Help.

# Printing a PDF File Directly

This section explains how to print PDF files directly without having to open a PDF application by using DeskTopBinder or UNIX commands.

# Using DeskTopBinder

This section explains how to print PDF files directly without having to open a PDF application by using DeskTopBinder. To use this function, you must first download DeskTopBinder from the manufacturer's Website and install it on your computer. Contact your local dealer for information on downloading DeskTopBinder.

# 

- This function is possible for genuine Adobe PDF files only.
- PDF files that are Version 1.7 or earlier are compatible.
- PDF files created using PDF version 1.5 Crypt Filter functions or more than eight DeviceN Color Space components cannot be printed.
- PDF files created using PDF version 1.6 watermark note functions, or extended optional contents cannot be printed.
- AcroForm is a function specific to PDF version 1.7 and is not supported.
- If the document contains transparency function data, it may fail to print. When this happens, use the printer driver to print the document.
- Large PDF files might not be printable using the PDF direct print function.



• Paper size errors may occur when printing on custom size paper.

# **Expanding DeskTopBinder features**

This section explains how to extending the features of DeskTopBinder.

To extend a feature, click on its icon in the [Type:] list.

The following procedure explains how to use the extended features Wizard to print PDF files directly.

- On the [Start] menu, point to [All Programs], [DeskTopBinder], and then click [Extended Features Wizard].
- Select [Easy settings], then click [Start] and then, click [Next] repeatedly until the [Printing Function2] dialog box appears.

If you have selected [All function settings], click [Start], and then click the [Output] icon in the [Type:] list. Select [PDF Direct Print] in [Selectable function(s):], and then click [Add].

- 3. In the [Printing Function2] dialog box, click [Add...].
- 4. Click [Specify...], and then enter the IP address or host name of the printer.
- 5. Click [OK].
- 6. Click [OK].
- 7. Click [Next] repeatedly until [Finish] appears.
- 8. Click [Finish].

# Function palette

The Function Palette contains buttons for functions that are already configured through expanded DeskTopBinder functions. Using these buttons, you can print Windows files, preview printouts, convert images, and register scanners for documents without having to open DeskTopBinder. You can also use these functions simply by dragging a target file to the button corresponding to the required function and dropping it there.

- 1. On the [Start] menu, point to [All Programs], [DeskTopBinder], and then click [Function Palette].
  - An icon for the Function palette is added to the task tray displayed at the bottom right of the screen.
- 2. Right-click the new icon that has been added to the task tray, and then click [Properties...].
- 3. Click the [Contents] tab, select the [PDF Direct Print] check box at the center, and then click [OK].

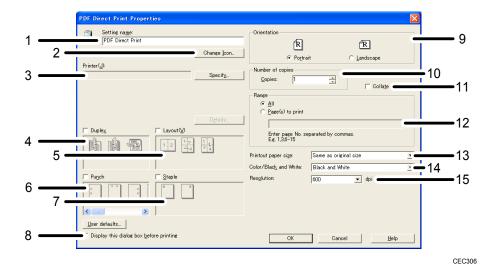
The [Properties] screen closes and the [PDF Direct Print] icon is added to the palette.

## **PDF Direct Printing Using Function Palette**

Follow the procedure below to print PDF files directly.

- 1. Drag the PDF file you want to print to the PDF Direct Printing icon on the Function Palette and drop it there.
- 2. Highlight the PDF file you want to print, and then click [OK].

# **PDF Direct Print Properties**



1. Setting name:

Displays the plug-in configuration name (up to 63 single byte characters)

#### 2. Change Icon...

Changes the icon displayed on the tool bar.

#### 3. Printer:

Displays printer's IP address or hostname.

#### 4. Duplex

Prints on both sides of sheets.

#### 5. Layout

Prints multiple pages on a single sheet.

#### 6. Punch (not supported for this printer)

Punches holes in printed sheets.

#### 7. Staple (not supported for this printer)

Staples together printed sheets.

#### 8. Display this dialog box before printing

Appears in PDF direct printing mode if this check box is selected.

#### 9. Orientation:

Specify the original's orientation.

## 10. Number of copies

Specify the number of copies to print.

#### 11. Collate

Sorts printed sheets.

#### 12. Range:

Specify which paper to print.

#### 13. Printout paper size:

Specify the paper size you want copies to be printed onto.

#### 14. Color/Black and White:

Specify [Black and White] printing for this printer.

#### 15. Resolution:

Specify a print resolution.

# **Using Commands to Print**

This section explains how to print PDF files directly using printing commands, such as "lpr", "rcp", "ftp", and "sftp".

#### Sending a PDF file

Use the following procedure to send a PDF file to this printer using printing commands.

Following is an example when using the "lpr" command to print a PDF file by specifying the printer's IP address.

c: $\$  lpr -S printer's IP address -P printer name [-o I]  $\$  path $\$  PDF file name



- Entering the text enclosed in brackets [] is optional.
- For details about printing PDF files directly, see UNIX Supplement.

#### **Entering the PDF password**

Use the following procedure to print a password protected PDF file directly.

To print a PDF file that is protected by a password, enter the password using the control panel or Web Image Monitor.

#### **Using the Control Panel**

To enter a PDF password using the control panel, select [Change PDF Password] on [PDF Menu] under [Print Settings].

#### **Using Web Image Monitor**

To enter a PDF password using Web Image Monitor, click [Configuration] in the menu area, and then select [PDF Temporary Password] under "Printer".

• For details about Web Image Monitor, see Web Image Monitor Help.

# Specifying the Classification Code for a Print Job

When printing in an environment where classification codes are required, a classification code must be specified for each print job.



 The PostScript 3 printer driver does not support the classification codes and it cannot be used to print under environment which the classification codes are required.

#### For the PCL 6 printer driver:

- 1. In the application, on the [File] menu, click [Print].
- 2. Select the printer, and then open the [Printing Preferences] dialog box in the document's native application.
- 3. Click the [Detailed Settings] tab.
- 4. In the [Menu:] box, click the [Job Setup] icon.
- 5. Enter the classification code in the [Classification Code:] box.

This code identifies the user. The classification code can contain up to 32 alphanumeric (a-z, A-Z, 0-9, "-") characters.

- 6. Make any other necessary print settings, and then click [OK].
- 7. Execute the print command.
- 8. The print job is sent to the printer.

#### For the PCL 5e printer driver:

- 1. In the application, on the [File] menu, click [Print].
- 2. Select the printer, and then open the [Printing Preferences] dialog box in the document's native application.
- 3. Click the [Valid Access] tab.
- 4. Enter the classification code in the [Classification Code:] box.

This code identifies the user. The classification code can contain up to 32 alphanumeric (a-z, A-Z, 0-9, "-") characters.

- 5. Make any other necessary print settings, and then click [OK].
- 6. Execute the print command.
- 7. The print job is sent to the printer.



• The specified classification code is stored in the printer driver.



- To switch between different classification codes, install the printer driver under different names, and specify different classification code for each driver.
- For details about how to view the log collected using Classification Code, see the manual for the external log collection system.

A virtual printer is a pseudo printer that can only be recognized on a network. The virtual printer has various print options, such as feeding tray selection and duplex printing, which you can set in advance. You can also use the interrupt printing function. This function suspends the ongoing job and gives priority to a new job.

This function is available only if the hard disk is installed on the printer.

If you use the virtual printer under UNIX, Solaris, and other operating systems, various print functions are possible without having you manually enter usual print commands.

# Adding a Virtual Printer



- Adding a virtual printer requires Administrators privilege. Log in using an account that has Administrators privilege.
- The following Virtual Printer protocols are available: "TCP/IP (Unspecified, Normal)", "TCP/IP (Unspecified, Priority)", "TCP/IP (DIPRINT)", "TCP/IP (RHPP)", "TCP/IP (IPDS)", and "NetWare".
- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. In the menu area, click [Configuration], and then click [Virtual Printer Settings] in the "Printer" category.
- 3. Click [Add].
- 4. In [Virtual Printer Name], enter a name for the new printer, and then select the protocol in the [Protocol] list.
- 5. Click [OK].



- If you select [TCP/IP (DIPRINT)], [TCP/IP (IPDS)], or [NetWare] in the [Protocol] list, you cannot specify a virtual printer name.
- You can specify a virtual printer name using up to 47 characters.
- You can add up to 50 virtual printers. After 50 virtual printers have been added, [Add] will no longer be displayed.

# **Changing a Virtual Printer Configuration**

# 

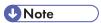
- You must have Administrators privilege to change the configuration of a virtual printer. Log in using an account that has Administrators privilege.
- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. In the menu area, click [Configuration], and then click [Virtual Printer Settings] in the "Printer" category.
- 3. Select the virtual printer whose configuration you want to change, and then click [Change].
  If you want to configure this virtual printer for an interrupt printer, select [TCP/IP (Unspecified, Priority)] in the protocol list.
- 4. Change the configuration as required.
- 5. Click [OK].



For details about virtual printer configuration, see Web Image Monitor Help.

# Confirming a Virtual Printer Configuration

- 1. Start Web Image Monitor.
- 2. In the menu area, click [Configuration], and then click [Virtual Printer Settings] in the "Printer" category.
- Select the virtual printer whose configuration details you want to confirm, and then click [Details].



- [Details] is not displayed if you log in to Web Image Monitor as an administrator. To confirm a virtual printer configuration, click [Change].
- When the virtual printer function is disabled, the list of virtual printers is not displayed if you are using Web Image Monitor in guest mode. For details about enabling the virtual printer function, see p.56 "Printing Using a Virtual Printer".

# **Deleting a Virtual Printer**

# **Important**

- You must have Administrators privilege to delete a virtual printer. Log in using an account that has Administrators privilege.
- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. In the menu area, click [Configuration], and then click [Virtual Printer Settings] in the "Printer" category.
- 3. Select the virtual printer that you want to delete, and then click [Delete].
- 4. Click [OK].



- You cannot delete this printer's default virtual printer.
- [Delete] appears only if you have already added a virtual printer.

# **Printing Using a Virtual Printer**

To print directly from a specified virtual printer, assign the virtual printer in the print command. If you use the interrupt printing function, enter the name of the virtual printer that you configured for interrupt printing. Before printing for the first time, specify the virtual printer you want to use.

- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- In the menu area, click [Configuration], and then click [Basic Settings] in the "Printer" category.
- 3. Select [Active] in [Virtual Printer], and then click [OK].
- 4. Send a command from your computer.

Following is an example when using the "lpr" command to print a file.

c:\> lpr -S printer's IP address -P virtual printer name [-o I] \path\file name



- When the ongoing job meets any of the following conditions, interrupt printing is not possible even if
  you print with the virtual printer that is configured for interrupt printing. The printer waits to print a new
  job until it finishes printing the current job.
  - When the ongoing print job is performed using the bypass tray
  - When a function related to cover or slip paper is specified for the ongoing print job

- If a large amount of memory is used for the ongoing print job or a large number of sheets are being printed, there may not be enough memory to process an interrupt print job, or only part of the interrupt job may be printed. If this happens, certain functions for the interrupt job, such as stapling or storing data onto the printer, can be canceled or sheets can be sorted in a number smaller than the standard maximum capacity.
- For details about printing PDF files directly, see UNIX Supplement.

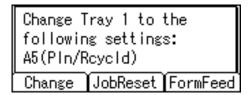
# If Errors Occur with the Specified Paper Size and Type

If the paper size or type specified for the print job does not match the paper loaded in the paper tray or on the bypass tray, a message warning you of the mismatch will appear on the control panel. Resolve the mismatch by following the instructions in the message.

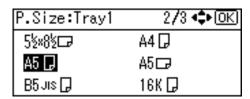
## Changing the Paper Tray Settings

Use the following procedure to change the paper size and type specified for a tray and continue printing.

1. On the warning screen, press [Change].



- 2. Press the [▼] or [▲] key to select the tray whose paper size setting you want to change, and then press the [OK] key.
- 3. Select the paper size you want to set using the scroll keys, and then press the [OK] key.



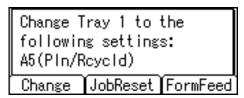
- Press the [▼] or [▲] key to select the tray whose paper type you want to change, and then press the [OK] key.
- 5. Press the [▼] or [▲] key to select the paper type you require, and then press the [OK] key.
- 6. Press the [Escape] key

Printing starts if the selected tray contains paper matching the size and type settings specified in the print job.

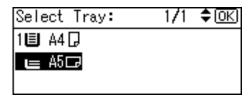
# Printing from a Selected Tray

If the printer does not have a tray for the selected paper size or paper type, or if the selected paper loaded in the printer has run out, a caution message appears. If this message appears, do the following procedure.

1. When the caution message appears, press [FormFeed].



- 2. Press the [OK] key.
- 3. Select the tray for form feed using the [▼] or [▲] key from those that appear on the display panel, and then press the [OK] key.





• If a tray with a smaller paper size is selected, the print job may be cut short, or other problems may occur.

# Canceling a Print Job

Follow this procedure for canceling the print job if the message prompting form feed appears.

1. Press [JobReset].

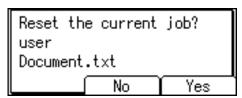
```
Change Tray 1 to the following settings:
A5(PIn/Rcycld)
Change [JobReset]FormFeed
```

2. Press [Current].



To resume printing jobs, press [Resume].

3. Press [Yes] to cancel the print job.



4. Press [No] to return to the previous display.



- If the printer is shared by multiple computers, be careful not to accidentally cancel someone else's print job.
- Under Windows, If the printer is connected to the computer using a parallel cable, sent print jobs may
  be canceled if the [Job Reset] key is pressed while "Please wait..." is displayed on the control panel.
  After the interval set in [I/O Timeout] in [Host Interface] has passed, the next print job can be sent. A
  print job sent from a different client computer will not be canceled in this case.
- You cannot stop printing data that has already been processed. For this reason, printing may continue for a few pages after you press the [Job Reset] key.
- A print job containing a large volume of data may take considerable time to stop.
- To stop data printing, see p.79 "Canceling a Print Job".

# Proceeding with Printing Using the Bypass Tray

If you select [Any Size/Type] or [Any Custom Size/Type] for the bypass tray, a warning message will appear whenever the paper fed from the source tray does not match the size specified in the print job.

When this warning message appears, check the size of the loaded paper and do the following.

```
Set below paper in Bypass
then press [Continue].
A5[](Plain)
Change [JobReset]Continue
```

- 1. Load paper of the size/type indicated in the message onto the bypass tray.
- 2. Press [Continue].

Printing resumes from the page in which the error occurred.



• For details about [Any Size/Type] or [Any Custom Size/Type], see p.37 "Specifying Printer Driver or Print Command Priority" and p.108 "Print Settings Menu".

# 3. Printing Stored Documents

This chapter explains how to print documents stored in the printer.

# **Using the Print Job Function**

This describes how to print or delete files stored in the printer. There are following types of print files: Sample Print, Locked Print, Hold Print, and Stored Print.

Print files sent from computers can be stored in the hard disk of the printer. Using the Print Job function, you can print or delete the print files.

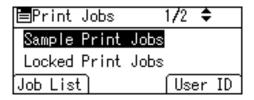


• This function is available only if the hard disk is installed on the printer.

#### **Print Job Screen**



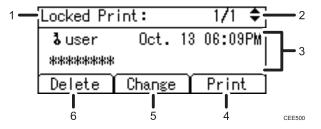
If you press [Prt.Jobs] on the initial screen, a screen prompting to select the type of print job appears.



After selecting a type, you can select print files in the list by pressing:

- [Job List]
  Displays the Job List screen.
- [User ID]
  Displays the User ID screen.

If you select Sample Print, Locked Print, or Hold Print, the print files saved in the printer are deleted after printing is completed. If you select Stored Print, the files remain in the printer even after printing is finished.



#### 1. The type of print jobs

Displays the type of the print job you select.

#### 2. Page number

Displays the current page number. Each time pressing the [♥] or [▲] key, the screen switches.

#### 3. User ID, Date/Time, and File Name display

- User ID shows the user's ID set by the printer driver.
- Date and Time show the time at which the print job was stored in the printer.
- File name shows the name of the file. However, "\*\*\*\*" is shown instead of the file name for a Locked Print file.

#### 4. [Print]

Prints a selected file.

#### 5. [Change]

Changes or clears the password of a file if a password is set. To change the password of a Locked/Stored Print job, press [Change], enter the current password, and then enter the new password on the confirmation screen. To clear the password for the Stored Print Job, press [Change], enter the current password, and then press the [OK] key in the confirmation screen without entering anything in the new password box.

You can also set passwords to the Stored Print files that do not currently have passwords.

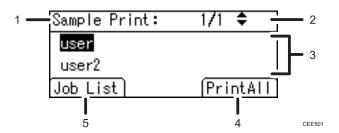
#### 6. [Delete]

Deletes a selected file.



- When you press [Change] to change or clear a password, you must first enter the existing password. If the password you entered is incorrect, you cannot change or clear any current passwords.
- You can use [Change] to set or clear passwords only when Stored Print files are stored in the printer.

#### **User ID Screen**



# 1. The type of print jobs

Displays the type of the print job you select.

#### 2. Page number

Displays the current page number. Each time pressing the  $[\P]$  or [A] key, the screen switches.

#### 3. User ID

- User ID shows the ID of the user who stored the selected type of files.
- User ID set by the printer driver is shown.

#### 4. [PrintAll]

Prints all files stored by the user whose user ID has been selected.

#### 5. [Job List]

Switches the screen to the [Job List] screen.

Displays the print jobs of the selected user only.



- To cancel selecting a file, press the [Escape] key.
- The display is not updated if a new file is stored while the list of stored files is displayed. To update the display, press the [Menu] or [Escape] key to return to the initial screen, and then press [Prt.Jobs] again.
- If a large number of print jobs are stored in the printer, processing may slow temporarily, depending on which functions are used.

# Printing from the Print Job Screen

This section gives instruction about Sample Print, Locked Print, Hold Print, and Stored Print.

# **☆ Important**

- If you are using a printer with ELP-NX installed, all print jobs for which "Normal Print" or "Locked Print"
  is specified are stored in ELP-NX when user authentication is set. After issuing the print command from
  the printer driver, log in to ELP-NX and print the job.
- If you are using a printer with ELP-NX installed, all print jobs for which "Locked Print" is specified are stored in ELP-NX when user authentication is not set. Also note that any jobs for which "Locked Print" is not specified will be deleted according to the default setting of ELP-NX.
- For details about how to print using ELP-NX, see the manuals provided with the application.
- For details about the option settings of ELP-NX, consult your administrator.
- This function is available only if the hard disk is installed on the printer.

# Sample Print

Use this function to print only the first set of a multiple-set print job. After you have checked the result, remaining sets can be printed or canceled using the printer's control panel. This can reduce misprints due to mistakes in content or settings.

# **☆** Important

- A Sample Print file cannot be stored if:
  - the hard disk is not installed in the printer.
  - the total number of Sample Print, Locked Print, Hold Print, and Stored Print files in the printer is over 100. (The maximum number varies depending on the volume of data in files.)
  - the file contains over 1,000 pages.
  - sent or stored files in the printer contain over 9,000 pages in total.

# **U** Note

- If a Sample Print file has not been stored properly, check the error log in the control panel.
- Even after you turn off the printer, stored documents in the printer remain. However, the [Auto Delete Temporary Jobs] or [Auto Delete Stored Jobs] settings are applied first.
- If the application has a collate option, make sure it is not selected before sending a print job. By default, Sample Print jobs are automatically collated by the printer driver. If a collate option is selected from the application's print dialog box, more prints than intended may be produced.
- If the first set of the Sample Print files is not as you expected and you do not want to print remaining sets, delete the Sample Print file using the display panel. If you print the remaining sets of the Sample Print file, the job in the printer is deleted automatically.

- Sample Print files printed or deleted using Web Image Monitor, after you select [Sample Print] using
  the control panel will appear on the display panel. However, an error message will appear if you try
  to print or delete those Sample Print files.
- If stored files have similar and long file names, recognizing the file you want to print on the display panel may be difficult. Print the file you want to print either by checking the user ID or the time the file is sent, or by changing the file name to something that can be recognized easily.
- For details about the error log in the display panel, see p.133 "Checking the Error Log".
- For details about [Auto Delete Temporary Jobs] and [Auto Delete Stored Jobs], see p.92
   "Maintenance Menu".

## Sending a Sample Print file

The following procedure describes how to print a Sample Print file with the PCL 6/PCL 5e or PostScript 3 printer driver.



- Applications with their own drivers, such as PageMaker®, do not support this function.
- Configure the Sample Print in the printer driver's properties.
   For details about configuring the printer drivers, see the relevant Help files.
- 2. Click [Details...], and then enter a user ID in the [User ID:] box.
- 3. Click [OK] to close [Details...], and then click [OK] to close the printer driver's properties.
- 4. Start printing from the application's print dialog box.

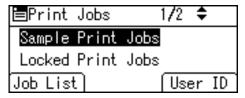
Make sure to set more than two copies.

The Sample Print job is sent to the printer, and the first set is printed.

#### Printing a Sample Print file using the control panel

1. On the printer's control panel, press [Prt.Jobs].

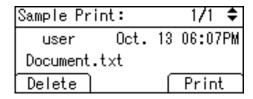




Depending on the security settings, certain print jobs may not be displayed.

You can print files also by pressing [User ID].

3. Select the file you want to print using the [▼] or [▲] key, and then press [Print].



If you want to print multiple copies, specify a number of sets in the [Quantity] box. Press the [Clear] key to correct any entry mistakes.

4. Press [Print].

To cancel printing, press [Cancel].



- If the set quantity is changed when [User ID] is pressed in step 2, the changed quantity is applied to all selected files.
- When printing is completed, the stored file will be deleted.
- To stop printing after printing has started, press the [Job Reset] key. The file will be deleted.
- For details about [User ID], see p.77 "Printing from the User ID Screen".

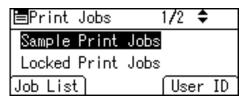
#### **Deleting Sample Print files**

If you are not satisfied with the Sample printout, you can delete the Sample Print file, revise it and print it again until the settings are suitable.

1. Press [Prt.Jobs].

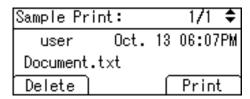


2. Select [Sample Print Jobs] using the [♥] or [▲] key, and then press [Job List].



Depending on the security settings, certain print jobs may not be displayed.

3. Select the file you want to delete using the [▼] or [▲] key, and then press [Delete].



4. Press [Delete].

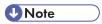
To cancel deleting, press [Cancel].

#### **Locked Print**

Use this function to maintain privacy when printing confidential documents on the printer over a shared network. Usually, it is possible to print data using the display panel once it is stored in this printer. When using Locked Print, it is not possible to print unless a password is entered on the printer's display panel. Your confidential documents will be safe from being viewed by other people.



- If you are using a printer with ELP-NX installed, all print jobs for which "Normal Print" or "Locked Print" is specified are stored in ELP-NX when user authentication is set. After issuing the print command from the printer driver, log in to ELP-NX and print the job.
- If you are using a printer with ELP-NX installed, all print jobs for which "Locked Print" is specified are stored in ELP-NX when user authentication is not set. Also note that any jobs for which "Locked Print" is not specified will be deleted according to the default setting of ELP-NX.
- For details about how to print using ELP-NX, see the manuals provided with the application.
- For details about the option settings of ELP-NX, consult your administrator.
- A Locked Print file cannot be stored if:
  - the hard disk is not installed in the printer.
  - the total number of Sample Print, Locked Print, Hold Print, and Stored Print files in the printer is over 100. (The maximum number varies depending on the volume of data in files.)
  - the file contains over 1,000 pages.
  - sent or stored files in the printer contain over 9,000 pages in total.



- If a Locked Print file has not been stored properly, check the error log in the control panel.
- Even after you turn off the printer, stored documents remain. However, the [Auto Delete Temporary Jobs] or [Auto Delete Stored Jobs] settings are applied first.
- If the application has a collate option, make sure it is not selected before sending a print job. Locked
  Print jobs are automatically collated by the printer driver as default. If a collate option is selected in
  the application print dialog box, more sets than intended may be printed.
- After the Locked Print file is printed, the job is automatically deleted.
- Locked Print files printed or deleted using Web Image Monitor, after you select [Locked Print] using
  the control panel will appear on the display panel. However, an error message will appear if you try
  to print or delete those Locked Print files.
- For details about the error log in the display panel, see p.133 "Checking the Error Log".
- For details about [Auto Delete Temporary Jobs] and [Auto Delete Stored Jobs], see p.92
   "Maintenance Menu".

#### Sending a Locked Print file

The following procedure describes how to print a Locked Print file with the PCL 6/PCL 5e or PostScript 3 printer driver.



- Applications with their own drivers, such as PageMaker, do not support this function.
- Configure the Locked Print in the printer driver's properties.
   For details about configuring the printer drivers, see the relevant Help files.
- 2. Click [Details...], and then enter a user ID in the [User ID:] box, and then enter a password in the [Password:] box.
- 3. Click [OK] to close [Details...], and then click [OK] to close the printer driver's properties.
- 4. Start printing from the application's print dialog box.

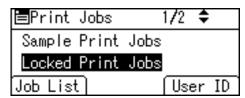
The Locked Print job is sent to the printer and stored.

# Printing a Locked Print file using the control panel

1. On the printer's control panel, press [Prt.Jobs].



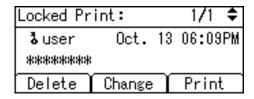
2. Select [Locked Print Jobs] using the [▼] or [▲] key, and then press [Job List].



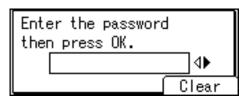
Depending on the security settings, certain print jobs may not be displayed.

You can print files also by pressing [User ID].

3. Select the file you want to print using the [▼] or [▲] key, and then press [Print].



4. Enter the password, and then press the [OK] key.



A confirmation screen will appear if the password is not entered correctly. Press [Clear] or the [Clear] key to enter the password again.

If you forget your password, contact your administrator for help.

5. Press [Print].

To cancel printing, press [Cancel].

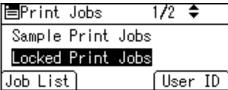


- When printing is completed, the stored file will be deleted.
- To stop printing after printing has started, press the [Job Reset] key. The file will be deleted.
- For details about [User ID], see p.77 "Printing from the User ID Screen".

#### **Deleting Locked Print files**

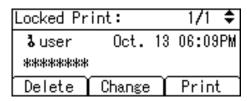
1. Press [Prt.Jobs].



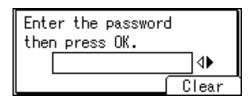


Depending on the security settings, certain print jobs may not be displayed.

3. Select the file you want to delete using the [▼] or [▲] key, and then press [Delete].



4. Enter the password, and then press the [OK] key.



A confirmation screen will appear if the password is not entered correctly. Press [Clear] or the [Clear] key to enter the password again.

If you forget your password, contact your administrator for help.

5. Press [Delete].

To cancel deleting, press [Cancel].

#### **Hold Print**

Use this function to temporarily hold a file in the printer, and print it from the computer or the printer's control panel later.



- A Hold Print file cannot be stored if:
  - the hard disk is not installed in the printer.
  - the total number of Sample Print, Locked Print, Hold Print, and Stored Print files in the printer is over 100. (The maximum number varies depending on the volume of data in files.)
  - the file contains over 1,000 pages.
  - sent or stored files in the printer contain over 9,000 pages in total.





- If a Hold Print file has not been stored properly, check the error log in the control panel.
- Even after you turn off the printer, stored documents in the printer remain. However, the [Auto Delete Temporary Jobs] or [Auto Delete Stored Jobs] settings are applied first.
- If the application has a collate option, make sure it is not selected before sending a print job. By default, Hold Print jobs are automatically collated by the printer driver. If a collate option is selected from the application's print dialog box, more prints than intended may be produced.
- Hold Print files printed or deleted using Web Image Monitor, after you select [Hold Print] using the
  control panel will appear on the display panel. However, an error message will appear if you try to
  print or delete those Hold Print files.
- If stored files have similar and long file names, recognizing the file you want to print on the display panel may be difficult. Print the file you want to print either by checking the user ID or the time the file is sent, or by changing the file name to something that can be recognized easily. If you enter the document name on the printer driver's [Details...], that name appears on the display panel.
- It is possible, but not required, to set a file name or a password to a Hold Print file.
- For details about the error log in the display panel, see p.133 "Checking the Error Log".
- For details about [Auto Delete Temporary Jobs] and [Auto Delete Stored Jobs], see p.92
   "Maintenance Menu".

#### Sending a Hold Print file

The following procedure describes how to print a Hold Print file with the PCL 6/PCL 5e or PostScript 3 printer driver.



- Applications with their own drivers, such as PageMaker, do not support this function.
- Configure the Hold Print in the printer driver's properties.
   For details about configuring the printer drivers, see the relevant Help files.
- Click [Details...], and then enter a user ID in the [User ID:] box.A file name can also be entered arbitrarily.
- 3. Click [OK] to close [Details...], and then click [OK] to close the printer driver's properties.
- 4. Start printing from the application's print dialog box.

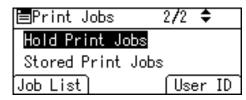
The Hold Print job is sent to the printer and stored.

# Printing a Hold Print file using the control panel

1. On the printer's control panel, press [Prt.Jobs].



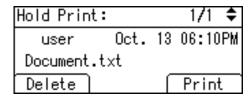
2. Select [Hold Print Jobs] using the [▼] or [▲] key, and then press [Job List].



Depending on the security settings, certain print jobs may not be displayed.

You can print files also by pressing [User ID].

3. Select the file you want to print using the [▼] or [▲] key, and then press [Print].



4. Press [Print].

To cancel printing, press [Cancel].



- When printing is completed, the stored file will be deleted.
- To stop printing after printing has started, press the [Job Reset] key. The file will be deleted.
- For details about setting printer drivers, see the printer driver Help. You can also print or delete a Hold Print file from Web Image Monitor. For details, see Web Image Monitor Help.
- For details about [User ID], see p.77 "Printing from the User ID Screen".

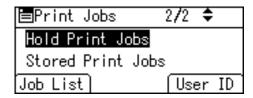
#### 3

#### **Deleting Hold Print files**

1. Press [Prt.Jobs].

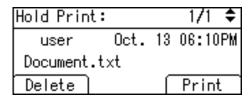


2. Select [Hold Print Jobs] using the [▼] or [▲] key, and then press [Job List].



Depending on the security settings, certain print jobs may not be displayed.

3. Select the file you want to delete using the [▼] or [▲] key, and then press [Delete].



4. Press [Delete].

To cancel deleting, press [Cancel].

#### **Stored Print**

Use this function to store a file in the printer, and then print it from the computer or the printer's control panel

Jobs are not deleted after they are printed, so the same job need not be resent in order to print multiple copies.



- A Stored Print file cannot be stored if:
  - the hard disk is not installed in the printer.
  - the total number of Sample Print, Locked Print, Hold Print, and Stored Print files in the printer is over 100. (The maximum number varies depending on the volume of data in files.)
  - the file contains over 1,000 pages.
  - sent or stored files in the printer contain over 9,000 pages in total.



- If a Stored Print file has not been stored properly, check the error log in the control panel.
- Even after you turn off the printer, stored documents in the printer remain. However, the [Auto Delete Temporary Jobs] or [Auto Delete Stored Jobs] settings are applied first.
- If the application has a collate option, make sure it is not selected before sending a print job. By default, Stored Print jobs are automatically collated by the printer driver. If a collate option is selected from the application's print dialog box, more prints than intended may be produced.
- Stored Print files printed or deleted using Web Image Monitor, after you select [Stored Print] using the control panel will appear on the display panel. However, an error message will appear if you try to print or delete those Stored Print files.
- If stored files have similar and long file names, recognizing the file you want to print on the display
  panel may be difficult. Print the file you want to print either by checking the user ID or the time the file
  is sent, or by changing the file name to something that can be recognized easily.
- If you enter the document name on the printer driver's [Details...], that name appears on the display panel.
- For details about the error log in the display panel, see p.133 "Checking the Error Log".
- For details about [Auto Delete Temporary Jobs] and [Auto Delete Stored Jobs], see p.92
   "Maintenance Menu".

#### Sending a Stored Print file

The following procedure describes how to print a Stored Print file with the PCL 6/ PCL 5e or PostScript 3 printer driver.



- Applications with their own drivers, such as PageMaker, do not support this function.
- 1. Configure the Stored Print in the printer driver's properties.

You can select two ways for Stored Print:

- [Stored Print]
   Stores the file in the printer and print it later using the control panel.
- [Store and Print] (or [Store and Normal Print])
   Prints the file at once and also stores the file in the printer.

For details about configuring the printer drivers, see the relevant Help files.

2. Click [Details...], and then enter a user ID in the [User ID:] box.

You can also set a file name and a password. The same password must be entered when printing or deleting.

3. Click [OK] to close [Details...], and then click [OK] to close the printer driver's properties.

3

4. Start printing from the application's print dialog box.

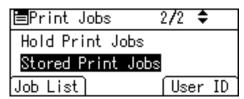
The Stored Print job is sent to the printer and stored.

#### Printing a Stored Print file using the control panel

1. On the printer's control panel, press [Prt.Jobs].

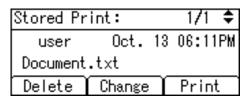


2. Select [Stored Print Jobs] using the  $[ \ \ ]$  or  $[ \ \ ]$  key, and then press [Job List].



You can print files also by pressing [User ID].

3. Select the file you want to print using the [♥] or [♠] key, and then press [Print].



If you set a password in the printer driver, a password confirmation screen appears. Enter the password.

If you want to print multiple copies, specify a number of sets in the [Quantity] box. Press the [Clear] key to correct any entry mistakes.

4. Press [Print].

To cancel printing, press [Cancel].

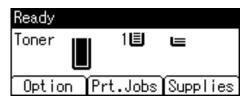


- When multiple files are selected without setting a quantity, one set less than the minimum number of all settings is applied. If the least number of settings is one set, all selected files will be printed at one set.
- If the number of set quantity is changed when [User ID] is pressed in step 2, the changed quantity is applied to all selected files.
- To stop printing after printing has started, press the [Job Reset] key. A Stored Print file is not deleted even if the [Job Reset] key is pressed.

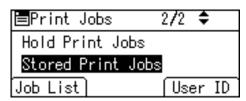
- The Stored Print file that sent to the printer is not deleted unless you delete a file or select [Auto Delete Stored Jobs].
- You can set or delete a password after sending files to the printer. Select the file and press [Change] in the Print Job List screen. To set a password, enter the new password. To delete the password, leave the password box blank on entering or confirming the new password, and press the [OK] key.
- For details about the [Auto Delete Stored Jobs], see p.92 "Maintenance Menu".
- For details about [User ID], see p.77 "Printing from the User ID Screen".

### **Deleting Stored Print files**

1. Press [Prt.Jobs].

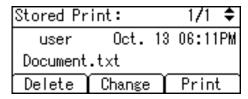


2. Select [Stored Print Jobs] using the [♥] or [♠] key, and then press [Job List].



Depending on the security settings, certain print jobs may not be displayed.

3. Select the file you want to delete using the [▼] or [▲] key, and then press [Delete].



If you set the password in the printer driver, enter the password to delete.

If you forget your password, contact your administrator for help.

4. Press [Delete].

To cancel deleting, press [Cancel].

# Printing from the User ID Screen

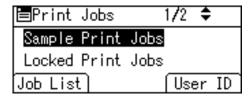
This describes how to print the files saved in the printer from the User ID screen.

# **Printing the Selected Print Job**

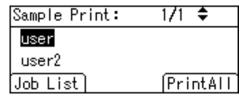
1. On the initial screen, press [Prt.Jobs].



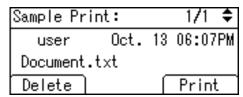
2. Press [User ID].



3. Select the user ID whose file you want to print using the [▼] or [▲] key, and then press [Job List].



4. Select the file you want to print using the [▼] or [▲] key, and then press [Print].



5. Press [Print].

To cancel printing, press [Cancel].



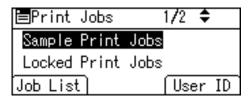
• If you print a Sample, Locked, or Hold Print file, the print file saved in the printer is deleted after printing is completed.

# **Printing All Print Jobs**

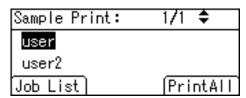
1. On the initial screen, press [Prt.Jobs].



Select a type of print jobs you want to print using the [▼] or [▲] key, and then press [User ID].



Select the user ID whose file you want to print using the [▼] or [▲] key, and then press
[PrintAll].



4. Press [Print].

To cancel printing, press [Cancel].



- If you print a Sample, Locked, or Hold Print file, the print file saved in the printer is deleted after printing is completed.
- You cannot select a print job that is not stored under the selected user ID.
- When printing multiple Sample Print files without specifying the number of sets on the confirmation screen, one set less than the least number of set specified on the computer is applied for every selected document. If the number of sets specified on the computer is "1", one set each is printed for every document.
- When printing multiple Stored Print files without specifying the number of sets on the confirmation screen, the least number of set specified on the computer is applied for every selected document.
- If you select [Locked Print Jobs], enter the correct password. If there are multiple passwords, the printer prints only files that correspond to the entered password.
- If you select Stored Print files, and some of these require a password, the printer prints files that correspond to the entered password and files that do not require a password.

# 3

# Canceling a Print Job

You can cancel printing from either the printer or a client computer. Since canceling procedures vary depending on the print job status, check the job status and cancel printing according to the following procedure.

#### If Printing Has Not Yet Started

You can cancel a print job from the computer.



- If the printer is shared by multiple computers, be careful not to accidentally cancel someone else's print job.
- A print job containing a large volume of data may take considerable time to stop.

#### Windows

1. Double-click the printer icon on the Windows task tray.

A window appears, showing all print jobs currently queued for printing. Check the current status of the job you want to cancel.

- 2. Select the name of the job you want to cancel.
- 3. On the [Document] menu, click [Cancel].

#### Mac OS X

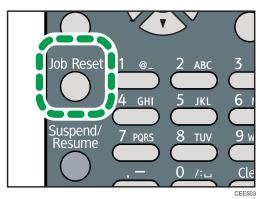
1. Click the printer icon on the dock.

A window appears showing all print jobs that are currently queuing to be printed. Check the current status of the job you want to cancel.

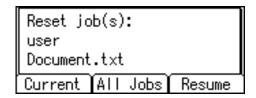
- 2. Select the name of the job you want to cancel.
- 3. In the application, on the [Jobs] menu, click [Delete Job].

# If Printing Has Already Started

You can cancel a print job from the printer's control panel.

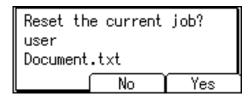


2. Press [Current].



To resume printing jobs, press [Resume].

3. Press [Yes] to cancel the print job.



Press [No] to return to the previous display.



- If the printer is connected to the computer using a parallel cable, sent print jobs may be canceled if the [Job Reset] key is pressed while "Please wait..." is displayed on the control panel. After the interval set in [I/O Timeout] in Printer Features has passed, the next print job can be sent. A print job sent from a different client computer will not be canceled in this case.
- You cannot stop printing data that has already been processed. For this reason, printing may continue for a few pages after you press the [Job Reset] key.

# 1

# 4. Making Printer Settings Using the Control Panel

This chapter explains the menu displayed on the control panel and how to change the printer's settings.

# Menu Chart

This section explains how to change the default settings of the printer and provides information about the parameters included in each menu.

#### **Memory Erase Status**

Displays data status inside the memory.

This menu can be displayed only if all the following conditions are met:

- The optional hard disk and the SD card provided with the hard disk are installed.
- [Auto Erase Memory Setting] is enabled.

#### **Paper Input**

Menu
Paper Size: Bypass Tray
Paper Size: Tray 1
Paper Size: Tray 2
Paper Size: Tray 3
Paper Type: Bypass Tray
Paper Type: Tray 1
Paper Type: Tray 2
Paper Type: Tray 3
Duplex Tray
Auto Tray Select
Tray Priority



• Only installed trays appear on the display panel.

# Maintenance

Menu
Quality Maintenance
General Settings
Timer Settings
HDD Management
Machine Settings Export

4



• [HDD Management] appears only when the hard disk is installed.

# List/Test Print

Menu
Multiple Lists
Config. Page
Error Log
Network Summary
Supply Info List
Menu List
PCL Config./Font Page
PS Config./Font Page
PDF Config./Font Page
IPDS Font List
Hex Dump

# System

Menu	
Print Error Report	

Menu
Auto Continue
Memory Overflow
Printer Language
Sub Paper Size
Default Printer Lang.
Auto Off
Auto Off Scheduler
ECO Night Sensor
Print Compressed Data
Memory Usage
Spool Printing
RAM Disk
Auto E-mail Notify



- [Spool Printing] appears only when the hard disk is installed.
- [RAM Disk] appears only when the hard disk is not installed.

# **Print Settings**

Menu
Machine Modes
PCL Menu
PS Menu
PDF Menu
IPDS Menu

Menu
Extended Security
Service Mode Lock
Firmware Version
Network Security Level
Auto Erase Memory Setting
Erase All Memory
Transfer Log Setting
Machine Data Encryption

# **U** Note

- [Service Mode Lock] may not appear depending on the setting of the printer.
- [Auto Erase Memory Setting] and [Erase All Memory] will appear when the optional hard disk and the SD card provided with the hard disk are installed.
- [Machine Data Encryption] will appear when the optional hard disk and the SD card provided with the hard disk are installed, and you have logged on as the machine administrator.

#### **Host Interface**

Menu
I/O Buffer
I/O Timeout
Network
Parallel Interface
Wireless LAN
USB Settings

# **U** Note

- [Parallel Interface] appears when the optional IEEE 1284 interface board is installed.
- [Wireless LAN] appears when the optional Wireless LAN interface unit is installed.

#### 4

#### Shutdown

Prepares the printer for power off. To prevent damage to the hard disk or memory leading to malfunction, be sure to shutdown the printer properly before turning off the power switch.



• For details about shutting down the printer, see "Turning off the Power", Hardware Guide.

#### Language

Menu
English
French
German
Italian
Spanish
Dutch
Norwegian
Danish
Swedish
Polish
Portuguese
Hungarian
Czech
Finnish
Russian

#### **Extended Features**

This menu is not available on the printer you are using.

# **Applying the Machine Settings to Other Printers**

### **About the Machine Settings Export Function**

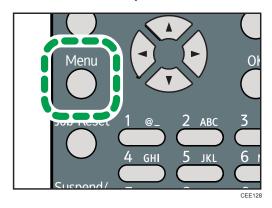
Use this function to store the printer's configuration settings on an SD card. Information stored on the card can be used to restore the printer's configuration. The card can also be used to export this printer's configuration settings to other printers of the same manufacturer.

The following settings are exportable:

- All settings under the [System] menus
- All settings under the [Print Settings] menus
- [Machine IPv4 Address] under [Network] on the [Host Interface] menu
- [Fixed USB Port] under [USB Settings] on the [Host Interface] menu

# Exporting the Machine Settings to a SD Card

- 1. Make sure the printer is turned off.
- 2. Insert the SD card in the SD card slot.
- 3. Turn the printer on.
- 4. Press the [Menu] key.



- 5. Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.
- 6. Press the [▼] or [▲] key to select [Machine Settings Export], and then press the [OK] key.
- 7. When the confirmation screen appears, press [Yes].
- 8. Make sure the message regarding that the exporting process being successfully completed appears, and then press [Exit].
- 9. Turn the printer off, and then remove the SD card on which the exported settings are stored.



 For details about inserting the SD card and the slot location, see "Installing the SD Memory Card Options", Hardware Guide.

# Importing the Machine Settings Stored on the SD Card into Other Printers

- 1. Make sure the printer to which the settings will be imported is turned off.
- 2. Insert the SD card in the SD card slot.
- 3. Turn the printer on while pressing and holding down the [Job Reset] key.
- 4. When the confirmation screen appears, press [Yes].
- 5. When the message regarding the completion of the import process appears, turn off the printer.
- 6. Remove the SD card.
- 7. Turn on the printer.
- 8. Make sure the settings have been imported properly. Modify the settings if necessary.



• The SD card installation procedure and the SD card slot location differ depending on the machine you are using.

# Memory Erase Status Menu

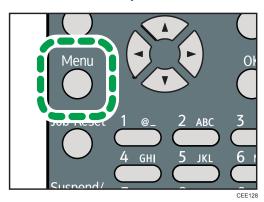
Displays data status inside the memory.



- The Memory Erase Status menu can be displayed only if all the following conditions are met:
  - The optional hard disk and the SD card provided with the hard disk are installed.
  - [Auto Erase Memory Setting] is enabled.

# Viewing the Status of Remaining Data in Memory

1. Press the [Menu] key.



- 2. Press the [▼] or [▲] key to select [Memory Erase Status], and then press the [OK] key.
- 3. The current memory status is displayed.

[Data to erase remaining.] : Data remain inside the memory.

[Currently no data to erase.] : No data remain inside the memory.

[Erasing Data...]: Data are being deleted.

- 4. Press the [OK] key.
- 5. Press the [Menu] key.

# Paper Input Menu

This section explains about paper settings on the paper input menu such as paper sizes and types on each tray.

#### Paper Input Menu Parameters

This section explains about parameters that can be set on the paper input menu.



- Only installed trays appear on the display panel.
- Be sure to set a paper type using the control panel. If you do not set it, the printing result might not be proper.

# 4

#### Paper Size: Bypass Tray

You can specify the paper size for Bypass Tray.

Default:

Region (mainly Europe and Asia)

A4D

Region (mainly North America)

8<sup>1</sup>/<sub>2</sub> × 11D

### Paper Size: Tray 1 to 3

You can specify the paper size for Tray 1 to 3.

Default:

Region A (mainly Europe and Asia)

A4D

Region B (mainly North America)

8<sup>1</sup>/<sub>2</sub> × 11D

#### Paper Type: Bypass Tray

You can specify the paper type for Bypass Tray.

Default: [No Display (Plain Paper)]

#### Paper Type: Tray 1 to 3

You can specify the paper type for Tray 1 to 3.

Default: [No Display (Plain Paper)]

#### **Duplex Tray**

You can set each tray for duplex printing. Only installed trays appear on the display panel.

• Tray 1 to 3, Bypass Tray

- On
- Off

#### **Auto Tray Select**

You can select whether to assign each tray to automatically print the paper size and type set by printer driver.

When using custom size paper, if automatic tray selection is enabled, the size selected on the control panel has priority. If this setting is disabled, the size selected from the printer driver has priority.

You can select multiple trays.

If you need to have a tray locked, you must select the tray using both printer driver and control panel.

• Tray 1 to 3, Bypass Tray

Default: [On]

- On
- Off

#### **Tray Priority**

You can set a tray to be checked first when automatic tray selection is enabled from the printer driver. The tray selected here is used when no tray is selected for a print job.

It is recommended that you load paper of the size and orientation you use most frequently in the tray selected in this setting.

Default: [Tray 1]

- Tray 1
- Tray 2
- Tray 3
- Bypass Tray



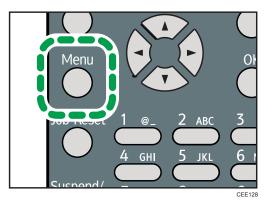
- For details about which paper sizes can be specified, see "Supported Paper for Each Tray", Hardware Guide.
- For details about which paper types can be specified, see "Supported Paper Types", Hardware Guide.

# Changing the Paper Input Menu

#### **Automatic tray selection**

Follow the procedure below to change the automatic tray selection setting.

1. Press the [Menu] key.

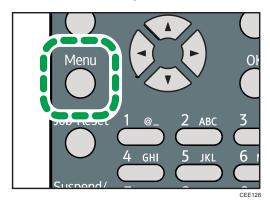


- 2. Press the [♥] or [▲] key to select [Paper Input], and then press the [OK] key.
- 3. Press the [▼] or [▲] key to select [Auto Tray Select], and then press the [OK] key.
- Press the [▼] or [▲] key to select the tray you want to print from, and then press the [OK] key.
- 5. Press the [▼] or [▲] key to select [On], and then press the [OK] key.
- 6. Press the [Menu] key.

#### **Tray priority**

Follow the procedure below to change the tray priority.

1. Press the [Menu] key.



- 2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.
- 3. Press the [▼] or [▲] key to select [Tray Priority], and then press the [OK] key.
- 4. Press the [▼] or [▲] key to select a tray you want to use, and then press the [OK] key.
- 5. Press the [Menu] key.

# Maintenance Menu

You can set printing conditions such as density and calibration, and printer management such as deleting temporary print jobs from the hard disk.

#### Maintenance Menu Parameters

This section explains about parameters that can be set on the maintenance menu.

#### **Quality Maintenance**

#### **Image Density Adjustment**

Adjusting the print image density can prevent faint spots or smears appearing on printed pages. You can specify a density value between -6 and +3.

Only change this setting from its default value if necessary. For details about adjusting the print image density, see "Adjusting the Image Density", Hardware Guide.

#### Registration

You can adjust the starting position of the printing page. For details, see "Adjusting Printing Position", Hardware Guide.

• Print Test Sheet

You can print the registration test sheet.

Only the installed trays appear on the display panel.

- Tray 1
- Tray 2
- Tray 3
- Bypass Tray
- Duplex Unit
- Adjustment

You can select the start position for printing on a page.

Only the installed trays appear on the display panel.

- Horizontal: Tray 1
- Horizontal: Tray 2
- Horizontal: Tray 3
- Horizontal: Bypass Tray
- Horizontal: Back Side

4

• Vertical: Std. Ppr Tray

• Vertical: Opt. Ppr Tray

• Vertical: Bypass Tray

• Vertical: Back Side

#### **Curl Prevention**

You can control the fuser temperature to prevent paper from curling. Use this mode only when paper misfeed occurs frequently during duplex printing.

Default: [Off]

• On

Off

#### **General Settings**

#### **Replacement Alert**

Use this function to specify the timing of when the Alert Indicator will light up to prompt the user to replace supplies.

• Fusing Unit

Default: [Normal]

- Notify Sooner
- Normal
- Notify Later

#### **Supply End Option**

You can specify whether or not to continue printing after the following components have exceeded their recommended service life.

Default: [Continue Printing]

- Continue Printing
- Stop Printing

#### **Display Supply Info**

You can select whether or not the amount of toner is displayed on the initial screen.

Default: [On]

- On
- Off

#### Menu Protect

You can select whether or not to protect the menu settings. If you enable this setting, you must specify a protection level.

You may not be able to change this setting depending on the setting of the printer.

Default: [Level 2]

- Level 1
- Level 2
- Off

#### **List/Test Print Lock**

You can select whether or not to prohibit List/Test printing.

You may not be able to change this setting depending on the setting of the printer.

Default: [Off]

- On
- Off

#### Unit of measure

You can specify the unit for measurement.

Default:

Region (mainly Europe and Asia)

[mm]

Region B (mainly North America)

[inch]

- mm
- inch

#### **Panel Key Sound**

You can select whether or not to enable the panel key sound.

Default: [On]

- On
- Off

#### Warm-up Beeper

You can select whether or not to sound the beeper when the printer has completed a warm-up process.

Default: [Off]

- On
- Off

#### **Display Contrast**

You can specify the density of the display by selecting one of seven levels.

# Key Repeat

You can specify whether or not to scroll the display panel when the  $[\P]$  or [A] key is held down. When you enable this setting, specify the scroll speed. (If repeat time is set to "Long", scroll speed becomes slow.)

Default: [Normal]

• Do not Repeat

Normal

Repeat Time: Medium

• Repeat Time: Long

#### **Function Priority**

Specify the function that is selected by default whenever the printer is turned on or leaves Energy Saver mode.

The order of the items on this menu reflects the order of the functions that appear when [Switch Functions] is pressed.

Default: [Printer]

Printer

Extended Features 1

• Extended Features 2

• Extended Features 3

#### **Timer Settings**

#### **Auto Reset Timer**

Specify how long the printer waits before it displays the initial screen following last usage (auto resets). This function will be active when the printer is in the following conditions:

• Performing normal menu operations.

• When displaying a warning message regarding authentication.

If you suspend printing by pressing the [Suspend/Resume] key, the machine will resume printing when the period of time specified by this setting has passed.

If you enable this setting, you can specify the number of seconds the printer waits before it auto resets. Specify a wait time of between 10 and 999 seconds (in steps of one second). The default wait time is 60 seconds.

Default: [On]

On

Off

#### **Set Date**

Set the date for the printer's internal clock.

#### **Set Time**

Set the time for the printer's internal clock.

#### **HDD Management**

Specify the settings related to deletion of data saved on the hard disk. This menu appears only if the hard disk is installed.

#### **Delete All Temporary Jobs**

Use this function to delete all temporary documents saved on the hard disk (Sample Print, Locked Print, and Hold Print data) at once.

#### **Delete All Stored Jobs**

Use this function to delete all Stored Print data saved on the hard disk at once.

#### **Auto Delete Temporary Jobs**

Specify whether or not to automatically delete temporary documents saved on the hard disk (Sample Print, Locked Print, and Hold Print data). If you enable this setting, you can specify the number of hours the printer waits before it deletes documents. Specify a wait time of between one and 200 hours (in steps of one hour). The default wait time is eight hours.

Default: [Off]

- On
- Off

#### **Auto Delete Stored Jobs**

Specify whether or not to automatically delete Stored Print data saved on the hard disk. If you enable this setting, you can specify the number of days the printer waits before it deletes documents. Specify a wait time of between one and 180 days (in steps of one day). The default wait time is three days.

Default: [On]

- On
- Off

#### **Reset IPDS Fonts**

Use this function to delete all IPDS captured fonts. This menu appears only when the optional IPDS card is installed.

### Machine Settings Export

Use this function to store the settings of this printer on an SD card. The stored information can then be used to restore the settings of this printer, or carried over to other printers of the same manufacturer. For details, see p.86 "Applying the Machine Settings to Other Printers".

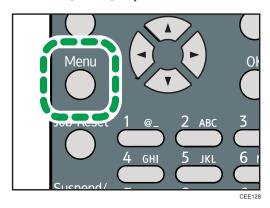
### Changing the Maintenance Menu

This section explains changing the maintenance menu using examples.

#### Automatic deletion of temporary jobs in the hard disk

Follow the procedure below to set automatic deletion of temporary jobs stored in the hard disk.

1. Press the [Menu] key.



- 2. Press the [♥] or [♠] key to select [Maintenance], and then press the [OK] key.
- 3. Press the [▼] or [▲] key to select [HDD Management], and then press the [OK] key.
- Press the [▼] or [▲] key to select [Auto Delete Temporary Jobs], and then press the [OK] key.
- 5. Press the [▼] or [▲] key to select [On], and then press the [OK] key.
- 6. Press the [▼] or [▲] key to set automatic deletion timer in hours between 1 through 200.
- 7. Press the [OK] key.
- 8. Press the [Menu] key.

# **List/Test Print Menu**

The list/test print menu allows you to print lists showing the printer configuration and the setting status of print-related conditions.

#### **List/Test Print Menu Parameters**

This section explains about parameters that can be set on the list/test print menu.

#### **Multiple Lists**

You can print the configuration page and error log, network summary and supply list.

#### Config. Page

You can print the current configuration of the printer. For details, see p.99 "Interpreting the Configuration Page".

#### **Error Log**

You can print an error report.

#### **Network Summary**

You can print the network device status.

#### **Supply Info List**

You can print the supply status.

#### Menu List

You can print a menu list showing all available menus.

#### PCL Config./Font Page

You can print the current configuration and installed PCL font list.

#### PS Config./Font Page

You can print the current configuration and installed PostScript font list.

#### PDF Config./Font Page

You can print the current configuration and installed PDF font list.

#### **IPDS Font List**

You can print a list of IPDS-supported fonts. This menu appears only when the optional IPDS card is installed.

#### **Hex Dump**

You can print the data sent by the computer using Hex Dump.



# Test Printing

Follow the procedure below to print the configuration page.

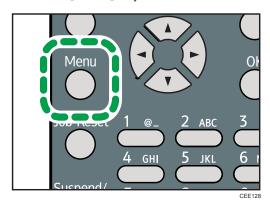


• The configuration page is printed on A4 or Letter (8  $^{1}/_{2}$ "×11") size paper, so load them in the same paper tray.

#### **Printing a Configuration Page**

Use the following procedure to print the Configuration Page.

1. Press the [Menu] key.



- 2. Press the [▼] or [▲] key to select [List/Test Print], and then press the [OK] key.
- Press the [▼] or [▲] key to select [Config. Page], and then press the [OK] key.
   After the configuration page is printed out, the screen returns to List/Test print menu.
- 4. Press the [Menu] key.

#### Interpreting the Configuration Page

The meanings of the items on the Configuration Page are as follows:

#### **System Reference**

#### Machine ID

Shows the serial number assigned to the board by its manufacturer.

#### **Total Memory**

Shows the total memory status.

#### **Total Counter**

Shows the total number of pages printed by the printer to date.

#### Firmware Version

• Printer

Shows the version number of the printer controller firmware.

System

Displays the version number of the system firmware.

Engine

Shows the version number of the printer engine firmware.

NIB

Shows the version number of the network interface board.

#### **Device Connection**

Shows the names of device options installed in the printer.

#### HDD: Font/Macro Download

Shows the hard disk status.

#### **Printer Language**

Shows the version number of the printer language.

#### **Attached Equipment**

Shows the options attached to the printer.

#### **Paper Input**

Shows the current Paper Input settings. For details, see p.89 "Paper Input Menu".

#### Maintenance

Shows the current Maintenance settings. For details, see p.92 "Maintenance Menu".

#### System

Shows the current System settings. For details, see p. 102 "System Menu".

#### **Machine Modes**

Shows the current machine modes settings. For details, see p. 108 "Print Settings Menu".

#### PCL Menu

Shows the current PCL settings. For details, see p. 108 "Print Settings Menu".

#### PS Menu

Shows the current PS settings. For details, see p.108 "Print Settings Menu".

#### PDF Menu

Shows the current PDF settings. For details, see p.108 "Print Settings Menu".

#### **IPDS Menu**

Shows the current IPDS settings. For details, see p.108 "Print Settings Menu".

#### **Host Interface**

Shows the current Host Interface settings. When DHCP is active on the network, the IPv4 address, subnet mask, and gateway address appear in parentheses. For details, see p.125 "Host Interface Menu".

#### Interface Information

Interface information is displayed.

# **User Paper Type**

Registered user paper types are displayed.

# System Menu

The system menu allows you to set the printer's basic functions. Although you can operate the printer using the default settings, you can also change its settings to better suit your printing needs. Changes made to settings remain effective after power off.

### System Menu Parameters

This section explains about parameters that can be set on the system menu.

#### **Print Error Report**

Select whether or not to print an error report when a printer error or memory error occurs.

Default: [Off]

- On
- Off

#### **Auto Continue**

Specify whether or not to continue printing after a system error. When you enable this setting, specify how long the printer is to display error before resuming print.

When [Auto Continue] is set to on, and a certain error occurs in the printer while printing, the job might be cancelled, or printing will not be as intended. When a job is cancelled due to error, the printer automatically begins the next job in the queue.

Default: [Off]

- Off
- Immediate
- 1 minute
- 5 minutes
- 10 minutes
- 15 minutes

#### **Memory Overflow**

You can specify whether or not to print a memory overflow error report.

Default: [Do not Print]

- · Do not Print
- Error Information

#### **Printer Language**

You can specify the printer language.

Default: [Auto]

- Auto
- PCL
- PS
- PDF

#### **Sub Paper Size**

Specify whether or not the paper size switches automatically when if paper of the specified size is not loaded in the tray.

This feature supports automatic switching between A4 and Letter (8  $^{1}/_{2}$ " x 11") size paper only.

Paper switching can cause page edges to be cropped and other undesirable print results. This is due to the difference between A4 and Letter (8  $^{1}/_{2}$ " x 11") in maximum printable area.

Default: [Auto]

- Auto
- Off

#### **Default Printer Lang.**

Select the printer language to use when the printer fails to detect the printer language.

Default: [PCL]

- PCL
- PS
- PDF

#### **Auto Off**

Use this function to reduce the power consumption of the printer when the printer is not in use.

#### Auto Off On/Off

You can select whether or not to enable Auto Off Mode.

Default: [On]

- On
- Off

#### **Auto Off Timer**

You can specify the duration the printer waits before entering Auto Off Mode. The printer enters Auto Off Mode if no user input has been made during the specified duration. When the printer is in Auto Off Mode, it takes longer for the printer to start printing.

Default: [1 minute]

- 1 minute
- 5 minutes
- 15 minutes

- 30 minutes
- 45 minutes
- 60 minutes

#### **Auto Off Scheduler**

Specify when the printer enters Auto Off Mode. You can specify the time of the day and the day of the week.

If a print job is sent to the printer or a user uses the control panel while the printer is in Auto Off Mode, the printer will return to Auto Off Mode right after the sent job is printed, or one minute after the user finishes using the control panel.

This function can also be enabled or disabled from Web Image Monitor. For details, see Web Image Monitor Help.

Default: [Inactive]

• Daily (Web Preset Time)

Specify the time of the day that the printer enters Auto Off Mode each day of the week. Use Web Image Monitor to specify the time of the day. For details, see Web Image Monitor Help.

• Day of Week(Preset Time)

Specify the time for each specific day that the printer enters Auto Off Mode. Use Web Image Monitor to specify the time of the day and the day of the week. For details, see Web Image Monitor Help.

• Inactive

#### **ECO Night Sensor**

Specify whether or not the printer uses the ECO Night Sensor (ambient light sensor) to automatically enter Auto Off Mode.

#### **Auto Off Setting**

Select whether to enable or disable the ECO Night Sensor.

Default: [Inactive]

- Active
- Inactive

#### **Auto Off Timer**

Specify how long the printer waits to enter Auto Off Mode after the ECO Night Sensor has detected that the lights have been turned off.

The Auto Off Timer will reset if any of the following occurs:

- If the sensor detects an increase in ambient brightness before the specified duration elapses.
- If a key is pressed, or a print is made.

Default: [30 minutes]

- 5 minutes
- 15 minutes
- 30 minutes
- 60 minutes
- 120 minutes

#### **Brightness Sensor Level**

Specify the ambient light sensor's brightness sensitivity level (trigger threshold).

You can set the light sensor to one of five sensitivity thresholds. "Level 5 (Dim)" is the highest sensitivity threshold. Selecting this level will cause the sensor to trigger at the smallest decrease in ambient light.

Selecting a lower level will cause the sensor to trigger at progressively lower levels of ambient light.

#### Default: [Level 3 (Dark)]

- Level 1 (Very Dark)
   (equivalent to a moonlit night: approximately 0.4 lx)
- Level 2
- Level 3 (Dark)

(equivalent to a cinema during a screening: approximately 2.4 lx)

- Level 4
- Level 5 (Dim)

(equivalent to a building interior at sunset: approximately 75.0 lx)

#### **Print Compressed Data**

Specify whether or not to print compressed data. The supported compression format is GZIP.

#### Default: [Off]

- On
- Off

#### **Memory Usage**

Select memory to be used from Font Priority or Frame Priority.

#### Default: [Frame Priority]

• Font Priority

Allocates more memory to the PDL work area. Select this setting if printing fails due to insufficient memory.

• Frame Priority

Allocates more memory for image processing. Select this setting to increase print speed. Depending on the document you are printing, this setting might not be effective.

#### **Spool Printing**

Specify whether or not to complete spooling before starting to print. Spooling stores a sent print job temporarily in the printer, and then prints it. This function is available only if the hard disk is installed on the printer.

Default: [Off]

- On
- Off

#### **RAM Disk**

If the hard disk is not installed for PDF Direct Print, select a value of 2 MB or higher. This function is displayed only if no hard disk is installed. For details about the optional SDRAM module, see Hardware Guide.

Default: [4 MB]

- 0 MB
- 2 MB
- 4 MB
- 8 MB

#### **Auto E-mail Notify**

Specify whether or not to send an error message to a preset e-mail address when an error occurs in the printer. After changing the setting, turn off the power of the printer briefly, and then turn it on again. For information, see Web Image Monitor Help.

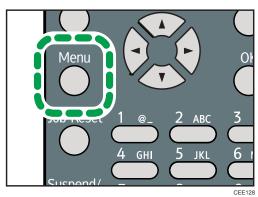
Default: [On]

- On
- Off

# Changing the System Menu

Follow the procedure below to change the settings for Auto Off.

# 1. Press the [Menu] key.



- 2. Press the [▼] or [▲] key to select [System], and then press the [OK] key.
- 3. Press the [▼] or [▲] key to select [Auto Off], and then press the [OK] key.
- **4.** Press the [▼] or [▲] key to select [Auto Off Timer], and then enter the [OK] key.
- 5. Press the [▼] or [▲] key to select the lead time needed to switch to Auto Off Mode.
- 6. Press the [OK] key.
- 7. Press the [Menu] key.

# **Print Settings Menu**

The System Menu allows you to set conditions for printing.

# **Print Settings Menu Parameters**

This section explains about parameters that can be set on the print settings menu.

#### **Machine Modes**

#### **Copies**

Specify the number of copies to print.

If the number of copies to print is specified by command or the printer driver, this setting is overridden.

Default: 1

• 1 to 999

#### Page Size

Specify the default paper size. The default paper size is used when the paper size is not specified in the print data.

Default:

Region A (mainly Europe and Asia)

**A4** 

Region (mainly North America)

 $8^{1}/_{2} \times 11$ 

- Region (mainly Europe and Asia)

  A4, A5, A6, B5 JIS, B6 JIS, C5 Env., C6 Env., DL Env.,  $8^{1}/_{2} \times 14$ ,  $8^{1}/_{2} \times 13$ ,  $8^{1}/_{2} \times 11$ ,  $8^{1}/_{4} \times 13$ ,  $8 \times 13$ ,  $7^{1}/_{4} \times 10^{1}/_{2}$ ,  $5^{1}/_{2} \times 8^{1}/_{2}$ ,  $4^{1}/_{8} \times 9^{1}/_{2}$ ,  $3^{7}/_{8} \times 7^{1}/_{2}$ , 16K, Custom Size
- Region B (mainly North America)  $8^{1}/_{2} \times 14$ ,  $8^{1}/_{2} \times 13$ ,  $8^{1}/_{2} \times 11$ ,  $8^{1}/_{4} \times 13$ ,  $8 \times 13$ ,  $7^{1}/_{4} \times 10^{1}/_{2}$ ,  $5^{1}/_{2} \times 8^{1}/_{2}$ ,  $4^{1}/_{8} \times 9^{1}/_{2}$ ,  $3^{7}/_{8} \times 7^{1}/_{2}$ , A4, A5, A6, B5 JIS, B6 JIS, C5 Env., C6 Env., DL Env., 16K, Custom Size

#### **Edge to Edge Print**

Select to whether or not to print using the whole area of paper, leaving no edge borders.

Default: [Off]

- On
- Off

#### **Duplex**

Select whether or not to print on both sides of a sheet. If you specify duplex printing, you must also specify the binding method. This menu appears only when the optional duplex unit is installed.

Default: [Off]

- Off
- Long Edge Bind
- Short Edge Bind

#### Rotate by 180 Degrees

Select whether or not to rotate the print image by 180 degrees.

Default: [Off]

- On
- Off

#### **Blank Page Print**

Select whether or not to print blank pages.

Default: [On]

- On
- Off

#### **Edge Smoothing**

Select whether or not to smooth the edges of texts and images when printing. When this setting is enabled, gradation in images may be degraded.

Default: [On]

- On
- Off

#### **Toner Saving**

Reduces toner consumption when printing. When this setting is enabled, print quality may be degraded.

Default: [Off]

- On
- Off

#### **Letterhead Setting**

Select whether or not to print on paper that has a fixed print side or print direction (letterhead paper, for example). For details, see "Printing on Fixed-Orientation Paper", Hardware Guide.

Default: [Auto Detect]

Off

Not printing with the letterhead printing mode.

Auto Detect

Select whether or not to print using letterhead mode whenever a page that has a fixed print side or print direction is specified as the first page.

On (Always)

Print with the letterhead printing mode regularly.

#### **Tray Setting Priority**

Specify whether the paper size and type settings that are applied are those specified using the control panel, printer driver, or print command.

• Bypass Tray

Specify whether the paper size and type settings applied for bypass Tray are those specified using the control panel, printer driver, or print command.

Default: [Driver/Command]

• Driver/Command

When the source paper tray is specified for a print job, the paper settings specified using the printer driver or by print command are applied, regardless of any settings specified using the control panel.

Machine Setting(s)

The paper settings specified on the printer's control panel are applied to all print jobs. An error will occur if the paper settings specified using the printer driver or by print command do not match those specified using the control panel.

Any Size/Type

If the printer's trays do not contain paper matching the settings of the print job, printing can proceed from the bypass tray with the job's settings applied.

• Any Custom Size/Type

If the printer's trays do not contain paper matching the settings of the print job but custom paper was specified using the printer driver or by print command, printing can proceed from the bypass tray with the job's settings applied.

• Tray 1 to 3

Specify whether the paper size and type settings applied for Tray 1 to 3 are those specified using the control panel, printer driver, or print command.

Default: [Machine Setting(s)]

- Driver/Command
- Machine Setting(s)

#### Tray Switching

You can specify whether or not the printer automatically switches paper trays if paper of the specified size and type is not loaded in the driver-designated tray.

Default: [Off]

- On
- Off

#### **Extend Auto Tray Switching**

This setting enables the printer to switch paper trays automatically, regardless of whether the tray is manually or automatically selected.

Default: [Off]

- On
- Off

#### **PCL Menu**

You can set conditions when using PCL for printing.

#### Orientation

Select the page orientation.

Default: [Portrait]

- Portrait
- Landscape

#### **Form Lines**

Specify the number of lines per page between 5 to 128. The default paper size is used when the paper size is not specified in the print data.

Default:

Region A (mainly Europe and Asia)

64

Region B (mainly North America)

60

#### **Font Source**

Specify the location of the default font.

When you select [RAM], you can select only fonts downloaded to the printer RAM.

When you select [HDD], you can select only fonts downloaded to the hard disk.

When you select [SD Font Download], you can select only fonts downloaded to the SD card.

Default: [Resident]

Resident

- RAM
- HDD
- SD
- SD Font Download

#### Font Number

Specify the ID of the default font you want to use.

Default: 0

- 0 to 63 (Resident)
- 1 to X (Download; "X" is the number of downloaded fonts)

#### **Point Size**

Specify the point size you want to use for the default font between 4 to 999.75 in 0.25 increments. This setting is effective only for a variable-space font.

Default: 12.00 points

#### **Font Pitch**

Specify the number of characters per inch you want to use for the default font between 0.44 to 99.99 in 0.01 increments. This setting is effective only for fixed-space fonts.

Default: 10.00 pitches

#### Symbol Set

You can specify the character set for the default font.

Default: [PC-8]

Available sets are as follows:

Roman-8, Roman-9, ISO L1, ISO L2, ISO L5, ISO L6, ISO L9, PC-775, PC-8, PC-8 D/N, PC-850, PC-852, PC-858, PC8-TK, PC-1004, Win L1, Win L2, Win L5, Win Baltic, Desktop, PS Text, MS Publ, Math-8, PS Math, Pifont, Legal, ISO 4, ISO 6, ISO 11, ISO 15, ISO 17, ISO 21, ISO 60, ISO 69, Win 3.0, MC Text, UCS-2, PC-864, Arabic-8, Win Arabic, PC-866, PC-866U, ISO Cyrillic, Win Cyrillic, PC-851, Greek-8, ISO Greek, PC-8 Greek, Win Greek, PC-862, Hebrew-7, Hebrew-8, ISO Hebrew

#### **Courier Font**

Select the type of courier font.

Default: [Regular]

- Regular
- Dark

#### Ext. A4 Width

Select whether or not to extend the width of the printable area of A4 sheets, by reducing side margins.

#### Default: [Off]

- On
- Off

#### Append CR to LF

Select whether or not to append a CR code to each LF code to print text data clearly.

Default: [Off]

- On
- Off

#### **Resolution**

You can specify the print resolution in dots per inch.

Default: [600dpi]

- 300dpi
- 600dpi

#### PS Menu

You can set conditions when using PostScript for printing.

#### **Job Timeout**

You can specify how long the printer waits (in seconds) before canceling the current job when the job is interrupted while being processed. If you select Use Machine Setting(s), enter a value between 0 to 999. (Default: 0)

Default: [Use Driver/Command]

- Use Driver/Command
- Use Machine Setting(s)

#### **Wait Timeout**

You can specify how long the printer waits (in seconds) before it cancels receiving a job when the printer cannot detect the end of the job. If you select Use Machine Setting(s), enter a value between 0 to 999. (Default: 300)

Default: [Use Driver/Command]

- Use Driver/Command
- Use Machine Setting(s)

#### **Data Format**

Select the data format from Binary Data or TBCP.

This setting is ineffective when using a parallel or EtherTalk connection.

When using a parallel or USB connection, the print job is canceled if binary data is sent from the printer driver.

Default: [TBCP]

When using an Ethernet connection, the print job is canceled if:

- The printer driver data format is TBCP and the data format selected using the control panel is Binary Data.
- The printer driver data format is binary and the data format selected using the control panel is TBCP.

#### **Resolution**

Select the resolution.

Default: [600dpi Fast]

- 300dpi
- 600dpi Fast
- 600dpi Standard

#### **Orientation Auto Detect**

Specify the orientation auto detect.

Default: [On]

- On
- Off

#### **PDF Menu**

You can set conditions when using PDF for printing.

#### **Change PDF Password**

Specify the password for the PDF file executing PDF Direct Print. If you do not set a PDF password, this menu does not appear. The password can be set using Web Image Monitor, but must be sent through the network. For increased security, use this menu on the control panel to set the password directly.

#### **PDF Group Password**

This setting is not available on this printer.

#### **Reverse Order Printing**

This setting enables printing to start from the last page of the document. Use this function when prints come out face up in the output tray. This allows a printed document to be assembled in page order.

Default: [Off]

- On
- Off

#### **Resolution**

Specify the resolution for the PDF file executing PDF Direct Print.

#### Default: [600dpi Fast]

- 300dpi
- 600dpi Fast
- 600dpi Standard

#### **Orientation Auto Detect**

Specify the orientation auto detect for the PDF file executing PDF Direct Print.

Default: [On]

- On
- Off

#### **IPDS Menu**

You can set conditions when using IPDS for printing.

#### **Tray Form**

Specify an IPDS form for each paper tray. For each paper tray, select the IPDS form you want to allocate to it. Only installed trays appear on the display panel.

- Tray 1
- Tray 2
- Tray 3
- Bypass Tray

#### **Emulation Mode**

Specify the emulation mode.

Default: [Native]

- Native
- 4028

#### **Print Mode**

Specify the print mode.

Default: [Enhanced]

- Standard
- Enhanced

#### Def. Code Page

Specify the default code page.

Default: 37

37, 38, 260, 273, 274, 276, 277, 278, 280, 281, 284, 285, 286, 287, 288, 290, 297, 420, 423, 424, 500, 870, 871, 875, 880, 892, 893, 905, 1025, 1026, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149

#### **Default FGID**

Specify the default FGID (Font Typeface Global Identifier), which identifies the printer's default resident font.

Default: 416

3, 11, 12, 18, 19, 46, 85, 86, 92, 111, 112, 159, 164, 203, 221, 223, 254, 256, 281, 283, 290, 304, 305, 306, 318, 319, 400, 404, 416, 420, 424, 428, 432, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 5687, 5707, 5815, 5835, 20224

#### Chara. Per Inch

Specify the number of characters per inch (pitch) for the default font. Valid values are 5.0 to 30.0 in units of one tenth of an inch.

Default: 10.0

#### Valid Prnt.Area

Enable or disable valid printable area checking.

Default: [On]

- On
- Off

#### Page

Specify how data is positioned on the page.

Default: [Whole]

- Whole
- Compl
- Comp2
- Print

#### Edge to Edge

Enable or disable "Edge to Edge" printing.

Default: [Off]

- On
- Off

#### **Font Substitution**

Enables or disables font substitution.

Default: [Off]

- On
- Off

#### Caching

Specify whether or not to apply caching for repeated overlays.

Default: [Off]

- On
- Off

#### **Font Capture**

Enable or disable font capturing. This menu appears only when the hard disk is installed.

Default: [On]

- On
- Off

#### **Resolution**

Specify the resolution reported to the host in the "IPDS XOAOPC" command for raster coded fonts and IM1 image support.

Default: [Auto]

- Auto
- 240dpi
- 300dpi
- 600dpi

#### Graph.Char.Str.

Specify the Graphic Character String (Graphic Character Sizing) processing method.

Default: [Auto]

- Auto
- Character Scale
- Font Activation

#### **Bar Code**

Specify the barcode level protocol.

Default: [Auto]

- Auto
- 4028
- Native

#### **Box Draw**

Specify the Box Draw processing.

Default: [Off]

- On
- Off

#### Clr. Simulation

Specify how color specification controls are processed on a monochrome printer.

Default: [Fidelity]

- Fidelity
- Legacy

#### **Text Color Simulation**

Specify how text color specification controls are processed on a monochrome laser printer.

Default: [On]

- On
- Off

#### **Tray Mapping**

Map the media source (input tray) to an ID the host uses for the media source.

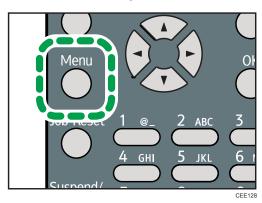
Default: [Auto]

- IPDS Tray
- Auto

# Changing the Print Settings Menu

Follow the procedure below to change Tray Setting Priority.

1. Press the [Menu] key.



- 2. Press the [▼] or [▲] key to select [Print Settings], and then press the [OK] key.
- 3. Press the [▼] or [▲] key to select [Machine Modes], and then press the [OK] key.
- 4. Press the [▼] or [▲] key to select [Tray Setting Priority], and then enter the [OK] key.

- 5. Press the [▼] or [▲] key to select the tray whose paper type or size you want to change, and then press the [OK] key.
- 6. Press the [▼] or [▲] key to select the desired setting item, and then press the [OK] key.
- 7. Press the [Menu] key.

# **Security Options Menu**

The system menu allows you to set conditions for printing.

# **Security Options Menu Parameters**

This section explains about parameters that can be set on the security options menu.

## **Extended Security**

Depending on the setting of the printer, some of the settings listed below may not appear.

#### **Driver Encryption Key**

Specify the driver encryption key.

### **Encrypt Address Book**

Select whether or not to encrypt the printer's address book data.

Default: [Off]

- On
- Off

#### Restrict User Info.Display

Select whether or not to display user information as "\*\*\*\*\* when checking job information without being authenticated through user authentication.

Default: [Off]

- On
- Off

#### **Enhance File Protection**

Select whether or not to automatically lock password-protected print files if an invalid password is entered ten times. When a file is locked, you cannot select them even if the correct password is entered.

Default: [Off]

- On
- Off

#### Settings by SNMPv1 and v2

Select whether or not to prohibit changes to the printer settings through access using SNMPv1, v2 protocol.

Default: [Do not Prohibit]

Prohibit

· Do not Prohibit

#### Simple Encryption

Select whether or not to use apply simple encryption (restrict usage) when enhanced encryption cannot be used.

Default: [Do not Restrict]

- Restrict
- · Do not Restrict

#### **Authenticate Current Job**

Select whether or not authentication is required for operations such as canceling jobs. If set to [Login Privilege], only authorized users or your administrator can operate the printer. If set to [Access Privilege], users who sent a print job or your administrator can operate the printer.

Default: [Off]

- Login Privilege
- Access Privilege
- Off

#### **Password Policy**

Specify the format of passwords: types of characters to be used and minimum length.

Valid characters for passwords are upper-case letters, lower-case letters, decimal numbers, and symbols such as #. If complexity is set to [Level 1], passwords must use two types of these characters; if set to [Level 2], three types.

· Complexity Setting

Default: [Do not Restrict]

- Level 2
- Level 1
- · Do not Restrict
- Minimum Character No.

If set to 0, minimum length is not specified.

Default: 0

• Between 0 to 32

#### @Remote Service

Select whether or not to prohibit @Remote Service. If you would like to set to Prohibit, contact your service representative.

Default: [Do not Prohibit]

- Prohibit
- Do not Prohibit

#### **Update Firmware**

Select whether or not to prohibit Update Firmware. If you would like to set to Prohibit, contact your service representative.

Default: [Do not Prohibit]

- Prohibit
- · Do not Prohibit

#### **Change Firmware Structure**

Select whether or not to prohibit Change Firmware Structure. If you would like to set to Prohibit, contact your service representative.

Default: [Do not Prohibit]

- Prohibit
- Do not Prohibit

#### Service Mode Lock

Select whether or not to prohibit entering service mode. This setting appears only when the user has logged in as the machine administrator.

Default: [Off]

- On
- Off

#### Firmware Version

Display the firmware version of the printer.

#### **Network Security Level**

Specify the network security level.

Default: [Level 0]

- Level 0
- Level 1
- Level 2

#### **Auto Erase Memory Setting**

Select whether or not to automatically delete memory. When set to on, specify the overwrite times. To specify the number of memory overwrites, select [Random Numbers]. This setting appears only when the optional hard disk and the SD card provided with the hard disk are installed.

Default: [Off]

• On

**HDDErase** 

NSA

- DoD
- Random Numbers

Number of Erase: Between 1 to 9

Off

#### **Erase All Memory**

Select to delete all data inside the memory. When deleting memory, specify the overwrite times. To specify the number of memory overwrites, select [Random Numbers]. This setting appears only when the optional hard disk and the SD card provided with the hard disk are installed.

Default: [Random Numbers]

**HDDErase** 

- NSA
- DoD
- Random Numbers

Number of Erase: Between 1 to 9

#### **Transfer Log Setting**

You can select whether or not to send log information to the log collection server.

Default: [Off]

- On (Only available from the log collection server.)
- Off

#### **Machine Data Encryption**

Encrypt data stored on the hard disk. Once you encrypt the data, the following menus appear on the control panel display. This setting appears only when the optional hard disk and the SD card provided with the hard disk are installed.

- Update Encryption Key
  - Update the encryption key.
- Cancel Encryption

Cancel the encryption settings.

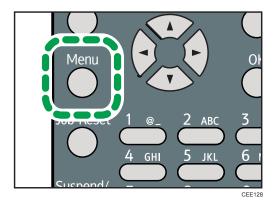
- Print Encryption Key
  - Print the encryption key.

# Changing the Security Options Menu

Follow the procedure below to erase data inside memory.

# **Important**

- This setting appears only when the optional hard disk and the SD card provided with the hard disk are installed.
- 1. Press the [Menu] key.



- 2. Press the [▼] or [▲] key to select [Security Options], and then press the [OK] key.
- 3. Press the [▼] or [▲] key to select [Extended Security], and then press the [OK] key.
- 4. Press the [▼] or [▲] key to select [Erase All Memory], and then press the [OK] key.
- 5. Press the [▼] or [▲] key to select [On], and then press [EraseNo.].
- 6. Press the [▼] or [▲] key to enter overwrite times, and then press the [OK] key.
- 7. Press the [▼] or [▲] key to select [On], and then press the [OK] key.
- 8. Press the [Menu] key.

# Host Interface Menu

You can set configurations about network connections and communication when using parallel connection between the printer and the computer. The changed configuration holds even if the printer is turned off.

#### Host Interface Menu Parameters

This section explains parameters that can be set on the host interface menu.

#### I/O Buffer

Select the size of I/O Buffer. Normally it is not necessary to change this setting.

Default: [128 KB]

- 128 KB
- 256 KB

#### I/O Timeout

Specify how many seconds the printer should wait before ending a print job. If printing operation is frequently interrupted by data from other ports, you can increase the timeout period.

#### Default: [15 seconds]

- 10 seconds
- 15 seconds
- 20 seconds
- 25 seconds
- 60 seconds

#### Network

You can make network-related settings. For details, see "Configuration", Hardware Guide.

#### Machine IPv4 Address

Select whether to set the IPv4 address automatically or manually.

#### Default: [Auto-Obtain (DHCP)]

Auto-Obtain (DHCP)

When DHCP is set to on, the IPv4 address, subnet mask address, and gateway address cannot be changed. To change them, set DHCP to off. Contact your administrator for information about the network configuration.

- Specify
  - IP Add.

Manually specify the IPv4 address.

Default: 11.22. 33.44

Subnet M

Manually specify the subnet mask.

Default: 0.0.0.0

Gateway

Manually specify the gateway address.

Default: 0.0.0.0

#### **IPv6 Stateless Setting**

Select whether to enable or disable stateless IPv6 address auto configuration.

Default: [Active]

- Active
- Inactive

#### **IPsec**

This is a security function. For details, contact your administrator.

Default: [Inactive]

- Active
- Inactive

#### **NW Frame Type**

Specify the frame type for NetWare.

Default: [Auto Select]

- Auto Select
- Ethernet II
- Ethernet 802.2
- Ethernet 802.3
- Ethernet SNAP

#### **Effective Protocol**

Specify the effective protocol.

IPv4

Default: [Active]

- Active
- Inactive
- IPv6

Default: [Inactive]

- Active
- Inactive
- NetWare

## Default: [Inactive]

- Active
- Inactive
- SMB

#### Default: [Active]

- Active
- Inactive

#### **Ethernet Speed**

Specify the network speed to operate the printer.

#### Default: [Auto Select]

- Auto Select
- 10Mbps Half Duplex
- 10Mbps Full Duplex
- 100Mbps Half Duplex
- 100Mbps Full Duplex

#### IEEE802.1X Auth.(Ethernet)

Specify IEEE 802.1X Ethernet authentication. For details about IEEE 802.1X authentication, see "Configuration", Hardware Guide.

#### Default: [Inactive]

- Active
- Inactive

#### Restr.IEEE802.1X Auth.Def.

Restore the default IEEE 802.1X setting.

#### **LAN Type**

Select Ethernet or Wireless LAN. This menu appears only when the optional Wireless LAN interface unit is installed.

#### Default: [Ethernet]

- Ethernet
- Wireless LAN

#### Permit SSL/TLS Comm.

Set the encrypted communication for SSL/TLS. If you set to [Ciphertext Only], you need to install the SSL certificate for the printer.

Default: [Ciphertext Priority]

- Ciphertext Only
- Ciphertext Priority
- Ciphertext/Cleartext

#### **Parallel Interface**

Specify parallel interface settings. This menu appears when the IEEE 1284 interface board is installed.

#### **Parallel Timing**

Specify the parallel interface timing.

Default: [ACK outside]

- ACK inside
- ACK outside
- STB down

#### Parallel Comm. Speed

Specify whether or not to use DMA transfer for receiving data.

Default: [High Speed]

- High Speed
- Standard

#### **Selection Signal Status**

Specify the selection signal level of the parallel interface.

Default: [High]

- High
- Low

#### **Input Prime**

You usually do not need to change this setting.

Default: [Inactive]

- Active
- Inactive

#### Bidirectional Comm.

Specify whether to enable or disable bi-directional communication.

Default: [On]

- On
- Off

#### Wireless LAN

Configure settings for Wireless LAN. This menu appears only when the optional Wireless LAN interface unit is installed.

#### **Communication Mode**

Specify the transmission mode for Wireless LAN.

Default: [Infrastructure Mode]

- 802.11 Ad-hoc Mode
- Infrastructure Mode

#### **SSID Setting**

Specifies SSID to distinguish the access point in [Infrastructure Mode] or [802.11 Ad-hoc Mode].

The characters that can be used are ASCII 0x20-0x7e (32 bytes).

If blank is specified in [802.11 Ad-hoc Mode], "ASSID" appears.

#### **Ad-hoc Channel**

Specify the channel to use when [802.11 Ad-hoc Mode] has been selected. Set the channel that matches the type of wireless LAN being used. The channel in use might differ depending on the country.

The following channels are available:

Region A (mainly Europe and Asia)

• IEEE 802.11a/b/g Wireless LAN

Frequency range:

2412 - 2472 MHz (1 - 13 channels)

5180 - 5240 MHz (36, 40, 44, and 48 channels)

In some countries, only the following channels are available:

• IEEE 802.11b/g Wireless LAN

Frequency range:

2412 - 2462 MHz (1 - 11 channels)

Default: [11]

Region B (mainly North America)

• IEEE 802.11a/b/g Wireless LAN

Frequency range:

2412 - 2462 MHz (1 - 11 channels)

5180 - 5240 MHz (36, 40, 44, and 48 channels)

#### Default: [11]

#### Security Method

Select whether to enable encryption and specify the security type when the encryption is enabled. WPA appears only when the optional Wireless LAN interface unit is installed.

Default: [Off]

- Off
- WEP

Press [Details], and then enter the WEP key using hexadecimal and ASCII characters.

WPA

Press [Details], and then select the Encryption and Authentication Methods.

Select one of the following Encryption Methods:

TKIP, CCMP(AES)

Select one of the following Authentication Methods:

WPA-PSK, WPA, WPA2-PSK, WPA2

#### Wireless LAN Signal

You can check the signal strength when using Wireless LAN.

#### **Restore Defaults**

Reset the Wireless LAN to default.

#### **USB Settings**

Configure the communication parameters for computer-to-printer connection via USB.

#### **USB Speed**

Default: [Auto Select]

- Auto Select
- Full Speed

#### **Fixed USB Port**

Default: [Off]

- Level 1
- Level 2
- Off

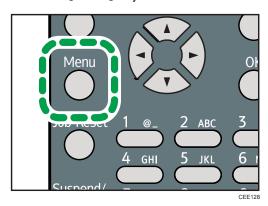


For details about how to configure the settings using Web Image Monitor, see p.135 "Using Web Image Monitor" and Web Image Monitor Help.

# Changing the Host Interface Menu

Follow the procedure below to change the I/O Timeout setting.

1. Press the [Menu] key.



- 2. Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.
- 3. Press the [▼] or [▲] key to select [I/O Timeout], and then press the [OK] key.
- 4. Press the [▼] or [▲] key to select the lead time needed to end a printing operation, and then press the [OK] key.
- 5. Press the [Menu] key.

# Language Menu

You can set a language to be displayed on the menu.

#### Language Menu Parameters

You can select the language you use.

Default: [English]

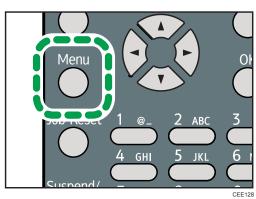
Available languages are as follows:

English, French, German, Italian, Spanish, Dutch, Norwegian, Danish, Swedish, Polish, Portuguese, Hungarian, Czech, Finnish, Russian.

# Changing the Language Menu

Follow the procedure below to change the interface language.

1. Press the [Menu] key.



- 2. Press the  $[ ^{\blacktriangledown} ]$  or  $[ ^{\blacktriangle} ]$  key to select [Language], and then press the [OK] key.
- 3. Press the [▼] or [▲] key to select the language, and then press the [OK] key.
- 4. Press the [Menu] key.

# **Options Menu**

Using the options menu, you can configure settings related to form feeding and error logs. This section provides a list of the configurable settings and explains how to check error logs.

## **Options Menu Parameters**

#### Form Feed

Outputs data that are unprintable, due to errors such as the absence of a line-feed code.

#### **Error Log**

If a document cannot be printed due to errors or other reasons, an error log is created. You can check the error log using the control panel.

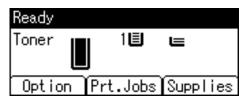
- All
- Sample Print Jobs
- Locked Print Jobs
- Hold Print Jobs
- Stored Print Jobs

# **Checking the Error Log**

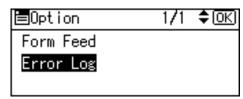
If a document could not be printed due to a printing error, identify the cause of the error by checking the error log in the control panel.

- The most recent 30 errors are stored in the error log. If a new error is added when there are 30 errors already stored, the oldest error is deleted. However, if the oldest error belongs to one of the following print jobs, it is not deleted. The error is stored separately until the number of those errors reaches 30. You can check any of these print jobs for error log information.
  - Sample Print Jobs
  - Locked Print Jobs
  - Hold Print Jobs
  - Stored Print Jobs
- If the power switch is turned off, the log is deleted.

1. Press [Option].

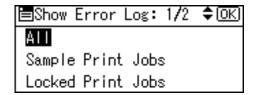


2. Select [Error Log] using the [▼] or [▲] key, and then press the [OK] key.



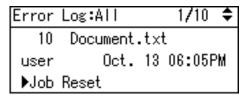
3. Select a type of print jobs using the [▼] or [▲] key, and then press the [OK] key.

If you select [All], all error logs appears.



Select the error log you want to check using the [▼] or [▲] key.

Press the [Menu] key until the initial screen appears after checking the log.





• To print files that appear in the error log, resend them after stored files have been printed or deleted.

# 5. Monitoring and Configuring the Printer

This chapter explains how to use Web Image Monitor and other applications to monitor the printer or change its settings.

# **Using Web Image Monitor**

Using Web Image Monitor, you can check the printer status and change settings.

#### Introduction to Web Image Monitor

#### Available operations

The following operations can be remotely performed using Web Image Monitor from a client computer.

- Displaying printer status or settings
- Checking the print job status or history
- Interrupting currently printing jobs
- · Resetting the printer
- Managing the Address Book
- Making printer settings
- · Making network protocol settings
- Making security settings

#### Configuring the printer

To perform the operations from Web Image Monitor, TCP/IP is required. After the printer is configured to use TCP/IP, operations from Web Image Monitor become available.

#### Recommended Web browser

• Windows:

Internet Explorer 6.0 or higher

Firefox 2.0 or higher

Mac OS X:

Firefox 2.0 or higher

Safari 3.0 or higher

Web Image Monitor supports screen reader software. We recommend JAWS 7.0 or a later version.

- Web Image Monitor does not support Safari running under Mac OS X 10.4.1.
- Display and operation problems can occur if you do not enable JavaScript and cookies, or if you are
  using a non-recommended Web Browser.
- If you are using a proxy server, change the Web browser settings. Contact your administrator for information about the settings.
- If you click your browser's back button but the previous page does not appear, click the browser's refresh button and try again.
- Printer information is not automatically updated. To perform an update, click [Refresh] in the display
  area.
- We recommend using Web Image Monitor in the same network.
- If the printer is firewall-protected, it cannot be accessed from computers outside the firewall.
- When using the printer under DHCP, the IP address may be automatically changed by the DHCP server settings. Enable DDNS setting on the printer, and then connect using the printer's host name. Alternatively, set a static IP address to the DHCP server.
- If the HTTP port is disabled, connection to the printer using the printer's URL cannot be established.
   SSL setting must be enabled on this printer. For details, contact your administrator.
- When using the SSL encryption protocol, enter "https://(printer's IP address)/".
- When you are using Firefox, fonts and colors may be different, or tables may be out of shape.
- When using a host name under Windows Server 2003/2003 R2/2008/2008 R2 with IPv6
  protocol, perform host name resolution using an external DNS server. The host file cannot be used.
- To use JAWS 7.0 under Web Image Monitor, you must be running Windows OS and Microsoft Internet Explorer 5.5 SP2, or a later version.
- If you are using Internet Explorer 8, downloading will be slower than with other browsers. To
  download faster with Internet Explorer 8, open the browser's [Internet Options] menu and register the
  printer's URL as a trusted site. Then disable SmartScreen filter for trusted sites. For details about these
  settings, see the Internet Explorer 8 Help files.
- The process of opening Web Image Monitor can be simplified by adding the URL of Web Image
  Monitor to the bookmarks of your Web browser. When adding a bookmark, do so in the top page
  before logging in to Web Image Monitor. If the bookmark is added after the user has logged in the
  top page, it may not display correctly.

# **Displaying Top Page**

This section explains the Top Page and how to display Web Image Monitor.

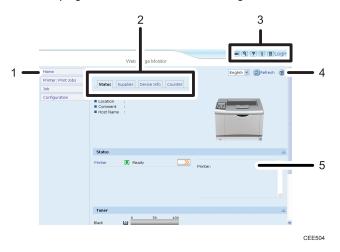
1. Start your Web browser.

#### 2. Enter "http://(printer's IP address or host name)/" in your Web browser's URL bar.

If the printer's host name has been registered on the DNS or WINS server, you can enter it.

When setting SSL, a protocol for encrypted communication, under environment which server authentication is issued, enter "https://(printer's IP address or host name)/".

Every Web Image Monitor page is divided into the following areas:



#### 1. Menu area

If you select menu, its content will be shown on the work area, or the sub area.

#### 2. Tab area

Details about each menu appear.

#### 3. Header area

The dialog box for switching to the user mode and administrator mode appears, and each mode's menu will be displayed.

The link to help and dialog box for keyword search appears.

#### 4. Help

Use Help to view or download Help file contents.

#### 5. Display area

Displays the contents of the item selected in the menu area.

Printer information in the display area is not automatically updated. Click [Refresh] at the upper right in the display area to update the printer information. Click the Web browser's [Refresh] button to refresh the entire browser screen.

#### When User Authentication is Set

For details about logging in to and out of Web Image Monitor, see p.19 "If User Authentication is Specified".

# **About Menu and Mode**

There are two modes available with Web Image Monitor: guest mode and administrator mode.

#### Guest mode

In the guest mode, printer status, settings, and print job status can be viewed, but the printer settings cannot be changed.



#### 1. Home

The [Status], [Supplies], [Device Info], and [Counter] tab are displayed. Details of the tab menu are displayed on the work area.

#### 2. Printer: Print Jobs

Allows you to display a list of Sample Print, Locked Print, Hold Print, and Stored Print jobs.

#### 3. Job

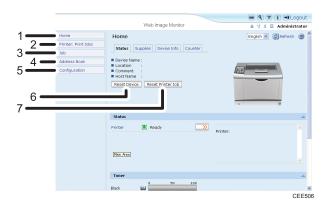
Display all print files.

#### 4. Configuration

Display current printer and network settings.

#### Administrator mode

In the administrator mode, you can configure various printer settings.



#### 1. Home

The [Status], [Supplies], [Device Info], and [Counter] tab are displayed. Details of the tab menu are displayed on the work area.

#### 2. Printer: Print Jobs

Allows you to display a list of Sample Print, Locked Print, Hold Print, and Stored Print jobs.

#### 3. Joh

Display all print files.

#### 4. Address Book

User information can be registered, displayed, changed, and deleted.

#### 5. Configuration

Make system settings for the printer, interface settings, and security.

#### 6 Reset Device

Click to reset the printer. If a print job is being processed, the printer will be reset after the print job is completed. This button is located on Top Page.

#### 7. Reset Printer Job

Click to reset current print jobs and print jobs in queue. This button is located on Top Page.



• For details about messages and settings, see Web Image Monitor Help.

#### Access in the Administrator Mode

Follow the procedure below to access Web Image Monitor in the administrator mode.

- 1. Click [Login] in the Header area of Web Image Monitor.
- 2. Enter a login user name and password, and then click [Login].

For details about the login user name and password, consult your network administrator.

Depending on the configuration of your Web browser, the login user name and password might be saved. If you do not want to save them, configure your Web browser's settings so that this information is not saved.

# Displaying Web Image Monitor Help

#### Viewing Help on our Web site

Viewing Help to your computer.

#### Downloading and checking Help

You can download Help to your computer. As the Help URL, you can specify the path to the local file to view the Help without connecting to the Internet.



- By clicking "?" (2) in the header area, the contents of Help appear.
- By clicking "?" (②), the Help icon in the display area, Help for the setting items in the display area appears.

#### **Downloading Help**

- 1. In the [OS] list, select the operating system.
- 2. In the [Language] list, select the language.
- 3. Click [Download].
- 4. Download Help by following the instructions on the screen.
- 5. Store the downloaded compressed file in a given location, and then decompress the file.
  To create a link for the Help button ( ? ? ), save the downloaded Help files on a Web server.

## Linking the URL of the downloaded Help

You can link the URL of the help file on a Web server to the "?" button.

- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. In the menu area, click [Configuration].
- 3. Click [Webpage].
- 4. In the [Set Help URL Target] box, enter the URL of the help file.

If you saved the help file to "C:\HELP\EN", enter "file://C:/HELP/". For example, if you saved the file to a Web server, and the URL of the index file is "http://a.b.c.d/HELP/EN/index.html", enter "http://a.b.c.d/HELP/".

5. Click [OK].



• If you save the Help files on your hard disk, you must access them directly - you cannot link to them using the Help button (??).

E

# **Registering Classification Codes**

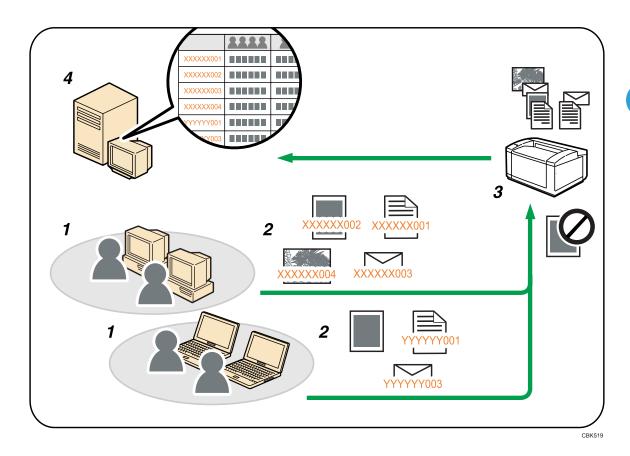
This section explains classification codes.

If you register classification codes, the printer logs the number of prints made under each code.

You can register classification codes to individual users and specified purposes, enabling you to monitor printer usage by each.

For example, you can manage accounts according to individual clients or account titles.

#### Classification Code - Based Process (example)



- 1. Divisions, sections, departments, project teams, users, etc., to be managed.
- 2. The appropriate classification code for the print job is entered.
- 3. The job is printed.
- 4. Classification codes are collected and managed by an external log collection system.



 For details about how to enter classification codes, see p.52 "Specifying the Classification Code for a Print Job".

 When printing in an environment where classification codes are required, print jobs that do not have a classification code cannot be printed. For details, see p.142 "Configuring Classification Codes".

# **Configuring Classification Codes**

Use Web Image Monitor to specify whether or not to apply classification code requirement to print jobs.

# Mportant !

- The configuration page can be printed at any time.
- The default setting for classification code requirement is "Optional".
- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. Click [Configuration] in the menu area, and then click [Logs].
- 3. Select that [Required] or [Optional] is selected for [Classification Code] in the [Common Settings for All Logs] column.

If "Required" is selected for the classification code requirement setting in Web Image Monitor, any print job without a classification code specified will not be printed.

- 4. Click [OK].
- 5. Click [Logout].
- 6. Quit Web Image Monitor.

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# Address Book Backup and Restore

Using Web Image Monitor, you can save or restore the printer's address book data.

# **Backing Up Address Book Data**

Follow the procedure below to save a copy of the printer's address book data.

- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. Click [Address Book].
- 3. Click [Maintenance].
- 4. Enter the encryption key and click [Backup].

Enter the encryption key that was set when the address book was encrypted. For details, contact your administrator.

# 5

# **Restoring Address Book Data**

Follow the procedure below to restore previously saved address book data to the printer.

- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. Click [Address Book].
- 3. Click [Maintenance].
- 4. Click [Restore].
- 5. Select the file to be restored by following the on-screen instructions.
- 6. Click [OK].
- 7. Confirm the message, and then click [OK].
- 8. Click [Back].
- 9. Click [Logout].



- The restore will overwrite any address data currently on the printer. The restore will also reset all user
- For details about restoring the address book data, see Web Image Monitor Help.

# Using SmartDeviceMonitor for Admin

Using SmartDeviceMonitor for Admin, you can monitor and manage multiple devices connected to the network. Use of this software is recommended for administrators only.

You can download SmartDeviceMonitor for Admin from the manufacturer's Web site.

For details about SmartDeviceMonitor for Admin, see the manual supplied with the software.

# When Using IPP with SmartDeviceMonitor for Client

When using IPP with SmartDeviceMonitor for Client, note the following:

- To use this function, you must first download SmartDeviceMonitor for Client from the manufacturer's Web site and install it on your computer. Contact your local dealer for information on downloading SmartDeviceMonitor for Client.
- Documents cannot be printed if the user logs on to Windows using a user name that has characters other than single byte alphanumeric letters.
- The names of the IPP port for SmartDeviceMonitor for Client and the standard IPP port for the operating system must be different from each other.
- When setting SSL, a protocol for encrypted communication, under the environment where the device certificate is installed, enter "https://( printer's IP address)/ ". Internet Explorer must be installed on your computer. Use the highest version. Internet Explorer 6.0 or higher is recommended.
- If the [Security Alert] dialog box appears when accessing the printer using IPP to create or configure
  an IPP port, or when printing, install the certificate. To select the certificate store location when using
  Certificate Import Wizard, click [Place all certificates in the following store], and then click [Local
  Computer] under [Trusted Root Certification Authorities].



• For details about SSL settings, consult your network administrator.

# **Printer Status Notification by E-Mail**

Whenever a paper tray becomes empty or paper is jammed, an e-mail alert is issued to the registered addresses to notify the printer status.

For this notification, you can make the e-mail notification settings.

Notification timing and e-mail content can be set.



Depending on your e-mail application, a phishing warning might appear after you receive an e-mail
message. To prevent phishing warnings appearing after you receive e-mail from a specified sender,
you must add the sender to your e-mail application's exclusion list. For details about how to do this,
see your e-mail application's Help.

The e-mail notification functions you can set are as follows:

- Auto e-mail notification
   Information including the printer status is automatically sent by e-mail. Before you use this function, register the e-mail address to be used.
- On-demand e-mail notification
   Information including the printer status is sent by e-mail when a request e-mail from the administrator is received.

The information that can be notified by auto e-mail notification is as follows:

- Call Service
- Out of Toner
- Toner Almost Empty
- Paper Misfeed
- Cover Open
- Out of Paper
- Almost Out of Paper
- Paper Tray Error
- Output Tray Full
- Unit Connection Error
- Waste Toner Bottle is Full
- File Storage Memory Full Soon
- Device Access Violation
- Replacement Required: Unit
- Replacement Required Soon: Unit

C

- Replacement Required: Print Cartridge
- Replacement Required Soon: Print Cartridge
- Check Replacement: Print Cartridge
- Toner Almost Empty (Remaining Level Selectable)
- Under [System] Menu, set [Auto E-mail Notify] to [On], using the printer's control panel. (The default setting is [On].)
- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 3. In the menu area, click [Configuration].
- 4. Under "Device Settings", click [E-mail].
- 5. Make the following settings:
  - Items in the Reception column: Make the necessary settings for sending and receiving e-mail.
  - Items in the SMTP column: Configure the SMTP server. Check your mailing environment, and then specify the necessary items. You can also perform mail authentication for the SMTP server.
  - Items in the POP before SMTP column: Configure the POP server. Check your mailing environment, and then specify the necessary items. You can also perform mail authentication for the POP server.
  - Items in the POP3/IMAP4 column: Configure the POP3 or IMAP4 server. Check your mailing environment, and then specify the necessary items.
  - Items in the E-mail Communication Port column: Configure the port to be used for access to the mail server.
  - Items in the E-mail Notification Account column: Specify these items If you want to use e-mail notification.
- 6. Click [OK].
- 7. Click [Logout].
- 8. Quit Web Image Monitor.



- For details about Web Image Monitor, see p.135 "Using Web Image Monitor".
- For details about the settings, see Web Image Monitor Help.

# Setting the Account for E-mail Notification

Before you use Auto E-mail Notification or On-demand E-mail notification, setup an e-mail account to be used for the function. Perform the following configuration task in Web Image Monitor.

1. Log in to Web Image Monitor as an administrator.

For details about logging in, see p.139 "Access in the Administrator Mode".

- 2. In the menu area, click [Configuration].
- 3. Under "Device Settings", click [E-mail].
- 4. Make the following settings in E-mail Notification Account:
  - E-mail Notification E-mail Address: Enter the address using alphanumeric characters. This will
    appear as the sender (From:) of the e-mail notification. Send requests for e-mail notification to
    this address.
  - Receive E-mail Notification: Specify whether to use on-demand e-mail notification.
  - E-mail Notification User Name: Enter the specified user name for the e-mail account in "E-mail Notification E-mail Address".
  - E-mail Notification Password: Enter the specified password for the e-mail account in "E-mail Notification E-mail Address".
- 5. Click [OK].
- 6. Click [Logout].
- 7. Quit Web Image Monitor.



The user name and e-mail address that is already registered as e-mail destination cannot be specified
as the recipient of e-mail notification.

## Mail Authentication

You can configure mail authentication to prevent illegal use of the mail server.

## **SMTP Authentication**

Specify SMTP authentication.

When mail is sent to the SMTP server, authentication is performed using the SMTP AUTH protocol by prompting the mail originator to enter the user name and password. This prevents illegal use of the SMTP server.

- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. In the menu area, click [Configuration].
- 3. Under "Device Settings", click [E-mail].
- 4. Make the following settings in SMTP column:
  - SMTP Server Name: Enter the IP address or host name of the SMTP server.
  - SMTP Port No.: Enter the port number used when sending e-mail to the SMTP server.

- SMTP Authentication: Enable or disable SMTP authentication.
- SMTP Auth, E-mail Address: Enter the e-mail address.
- SMTP Auth. User Name: Enter the SMTP account name.
- SMTP Auth. Password: To set or change the password for SMTP AUTH.
- SMTP Auth. Encryption: Select whether to encrypt the password or not.

[Auto Select]: If the authentication method is PLAIN, LOGIN, CRAM-MD5, or DIGEST-MD5.

[Active]: If the authentication method is CRAM-MD5 or DIGEST-MD5.

[Inactive]: If the authentication method is PLAIN or LOGIN.

- 5. Click [OK].
- 6. Click [Logout].
- 7. Quit Web Image Monitor.

#### **POP before SMTP Authentication**

Select whether to log in to the POP3 server before sending e-mail.

- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. In the menu area, click [Configuration].
- 3. Under "Device Settings", click [E-mail].
- 4. Make the following settings in POP before SMTP column:
  - POP before SMTP: Enable or disable POP before SMTP.
  - POP E-mail Address: Enter the e-mail address.
  - POP User Name: Enter the POP account name.
  - POP Password: To set or change the POP password.
  - Timeout setting after POP Auth.: Enter the time available before connecting to the SMTP server after logging in to the POP server.
- 5. Click [OK].
- 6. Click [Logout].
- 7. Quit Web Image Monitor.

# **Auto E-mail Notification**

- 1. Log in to Web Image Monitor as an administrator.
  - For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. In the menu area, click [Configuration].

The dialog box for making notification settings appears.

- 4. Make the following settings:
  - Notification Message: You can set this according to your needs, for example, the printer's location, service representative contact information.
  - Items in the Groups to Notify column: E-mail notification addresses can be grouped as required.
  - Items in the Select Groups/Items to Notify column: Select groups for each notification type, such as printer status and error.

To make detailed settings for these items, click [Edit] next to "Detailed Settings of Each Item".

- 5. Click [OK].
- 6. Click [Logout].
- 7. Quit Web Image Monitor.

**Note** 

- For details about Web Image Monitor, see p.135 "Using Web Image Monitor".
- For details about the settings, see Web Image Monitor Help.

# On-demand E-mail Notification

1. Log in to Web Image Monitor as an administrator.

For details about logging in, see p.139 "Access in the Administrator Mode".

- 2. In the menu area, click [Configuration].
- 3. Under "Device Settings", click [On-demand E-mail Notification].
- 4. Make the following settings:
  - Notification Subject: Enter a text string to be added to the subject line of return e-mails.
  - Notification Message: You can set this according to your needs, for example, the printer's location, service representative contact information.
  - Restriction to Device Status Info.: Select whether or not to allow access to the information such as the printer settings and status.
  - Items in the Receivable E-mail Address/Domain Name Settings column: Enter an e-mail address
    or domain name to use for requesting information by e-mail and to receive its return e-mail.
- 5. Click [OK].
- 6. Click [Logout].
- 7. Quit Web Image Monitor.

E

- For details about Web Image Monitor, see p.135 "Using Web Image Monitor".
- For details about the settings, see Web Image Monitor Help.

# Format of On-demand E-mail Messages

To use "on-demand e-mail notification", you need to send a request e-mail with a particular format to the printer.

Using your mail software, enter the following:

Format of the request e-mail

Item	Description
То	Enter the specified e-mail address in "E-mail Notification E-mail Address".
Subject	Enter "requeststatus".
From	Specify a valid mail address. The device information will be sent to the address specified here.

**U** Note

- A mail message must be within 1 MB in size.
- E-mail may be incomplete if sent immediately after power on.
- The subject is not case sensitive.
- The body of a request e-mail has no meaning. Any text written in the e-mail body is ignored.

# 6. Using a Printer Server

This chapter explains how to configure this printer to work as a network printer.

# **Preparing Printer Server**

This section explains how to configure the printer as a Windows network printer. The printer is configured to enabling network clients to use it. When the network printer is connected via SmartDeviceMonitor for Client, you can set the printing notification function to notify clients of the results of their print jobs.

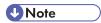
- Under Windows XP Professional or Windows Server 2003/2003 R2/2008/2008 R2, to change
  printer properties in the [Printer] folder, you need Printer Management access authentication; under
  Windows Vista/7, Full Control access authentication. Log on to the file server as an Administrator
  group.
- 1. Open the [Printers and Faxes] window from the [Start] menu.
- 2. Click the icon of the printer you want to use. On the [File] menu, click [Properties].
- 3. On the [Sharing] tab, click [Share this printer].
- To share the printer with users using a different version of Windows, click [Additional Drivers...].
  - If you have installed an alternative driver by selecting [Share As:] during the printer driver installation, this step can be ignored.
- 5. On the [Advanced] tab, click the [Printing Defaults...] button. Specify the default values for the printer driver that will be distributed to client computers, and then click [OK].
- 6. Click [OK], and then close the printer properties.

# **Using NetWare**

This section describes the setting procedure for network printers in the NetWare environment. In the NetWare environment, you can connect the printer as a "print server" or "remote printer".



• IPv6 cannot be used on this function.



- This procedure assumes an environment is already prepared for normal NetWare running the printing service setting.
- The procedure is explained with the following example settings:
  - File server name ... CAREE
  - Print server name ...PSERV
  - Printer name ...R-PRN
  - Queue name ...R-QUEUE

# Setting Up as a Print Server (NetWare 3.x)

Follow the procedure below to connect the printer as a print server using NetWare 3.x.

Log in to Web Image Monitor as an administrator.
 For details about logging in, see p.139 "Access in the Administrator Mode".

- 2. Click [Configuration] in the menu area, and then click [NetWare Print Settings].
  - Print Server Name: Enter the NetWare print server name. To use the interface board as a print server, enter the name of a print server that is not active on the file server. Use up to 47 characters.
  - Logon Mode: Specify whether to designate a file server or NDS tree when logging in to NetWare.
  - File Server Name: When a file server name is entered here, only the specified file server is searched for. This item is mandatory. Use up to 47 characters.
  - NDS Tree: To enable NDS mode, enter the name of the NDS tree you want to log in to. Use up to 32 alphanumeric characters.
  - NDS Context Name: To enable NDS mode, enter the print server context. Use up to 127 characters.
  - Operation Mode: Specify whether to use the interface board as a print server or a remote printer.
  - Remote Printer No.: This item is effective when the interface board is specified as a remote printer.
     Enter the same number as the number of the printer to be created on the print server (0 to 254 characters).

- Job Timeout: When the interface board is used as a NetWare remote printer, the printer cannot detect when a print job ends. Therefore, the printer terminates printing when a certain period of time has elapsed since it last received print data (i.e., when it has not received print data for a certain period of time). Specify here this period of time (3 to 255 seconds). The initial value is 15 (seconds).
- Frame Type: Select the frame type from the drop-down menu.
- Print Server Protocol: Select the protocol for NetWare from the drop-down menu.
- NCP Delivery Protocol: Select the protocol for NCP delivery.
- 3. Confirm the settings, and then click [Device Name].

Configuration is now complete. Wait several before restarting Web Image Monitor.

4. Click [Logout].



- To check the configuration is correct, enter the following from the command prompt:
  - F:> USERLIST
- If the printer works as configured, the name of the print server appears as a connected user.
- If you cannot identify the printer you want to configure, check the printer name against the
  configuration page printed from the printer. For details about printing a configuration page, see
  p.99 "Test Printing".
- If no printer names appear in the list, match the frame types of IPX/SPX for the computer and printer.

  Use the [Network] dialog box of Windows to change the frame type of the computer.
- For details about Web Image Monitor, see p.135 "Using Web Image Monitor".

# Setting Up as a Print Server (NetWare 4.x, 5 / 5.1, 6 / 6.5)

Follow the procedure below to connect the printer as a print server using NetWare 4.x, NetWare 5 / 5.1, or NetWare 6 / 6.5.



- When using the printer as a print server in NetWare 4.x, NetWare 5 / 5.1, or NetWare 6 / 6.5, set it to the NDS mode.
- When using NetWare 5 / 5.1 or NetWare 6 / 6.5, set the printer as a print server.
- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. Click [Configuration] in the menu area, and then click [NetWare Print Settings].
- 3. Confirm the settings, and then click [Device Name].
- 4. Click [Logout].

**U** Note

• To check the configuration is correct, enter the following from the command prompt:

F:> USERLIST

- If the printer works as configured, the name of the print server appears as a connected user.
- If you cannot identify the printer you want to configure, check the printer name against the
  configuration page printed from the printer. For details about printing a configuration page, see
  p.99 "Test Printing".
- If no printer names appear in the list, match the frame types of IPX/SPX for the computer and printer.
   Use the [Network] dialog box of Windows to change the frame type of the computer.
- For details about Web Image Monitor, see p.135 "Using Web Image Monitor".

# Using Pure IP in the NetWare 5 / 5.1 or 6 / 6.5 Environment

Follow the procedure below to connect the printer as a print server in a pure IP environment of NetWare 5 / 5.1 or NetWare 6 / 6.5.

- When creating a queued print server in a pure IP environment of NetWare 5 / 5.1 or NetWare 6 /
   6.5, create a print queue on the file server using NetWare Administrator.
- This printer is not available as a remote printer for use in a pure IP environment.
- To use the printer in a pure IP environment, set it to IPv4.

#### Setting up using NWadmin

- 1. From Windows, start NWadmin.
  - For details about NWadmin, see the NetWare manuals.
- Select the object in which the print queue is located in the directory tree, and then click [Create] on the [Object] menu.
- 3. In the [Class of new object] box, click [Print Queue], and then click [OK].
- 4. In the [Print Queue Name] box, enter the name of the print queue.
- 5. In the [Print Queue Volume] box, click [Browse].
- 6. In the [Available objects] box, click the volume in which the print queue is created, and then click [OK].
- 7. Check the settings, and then click [Create].
- 8. Select the object in which the printer is located, and then click [Create] on the [Object] menu.
- In the [Class of new object] box, click [Printer], and then click [OK]. For NetWare 5, click [Printer (Non NDPS)].

- 10. In the [Printer name] box, enter the printer name.
- 11. Select the [Define additional properties] check box, and then click [Create].
- 12. Click [Assignments], and then click [Add] in the [Assignments] area.
- 13. In the [Available objects] box, click the queue you created, and then click [OK].
- 14. Click [Configuration], click [Parallel] in the [Printer type] list, and then click [Communication].
- 15. Click [Manual load] in the [Communication type] area, and then click [OK].
- 16. Check the settings, and then click [OK].
- 17. Select a context specified, and then click [Create] on the [Object] menu.
- 18. In the [Class of new object] box, click [Print Server], and then click [OK]. For NetWare 5, click [Print Server (Non NDPS)].
- 19. In the [Print Server Name] box, enter the print server name.
- 20. Select the [Define additional properties] check box, and then click [Create].
- 21. Click [Assignments], and then click [Add] in the [Assignments] area.
- 22. In the [Available objects] box, click the queue you created, and then click [OK].
- 23. Check the settings, and then click [OK].
- 24. Start the print server by entering the following from the console of the NetWare server.

If the print server is in operation, guit and restart it.

#### To quit

CAREE: unload pserver

#### To start

CAREE: load pserver print\_server\_name

# Setting up using Web Image Monitor

- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. Click [Configuration] in the menu area, and then click [NetWare Print Settings].
- 3. Confirm the settings, and then click [Device Name].
- 4. Click [Logout].
- 5. Quit Web Image Monitor.



If you cannot identify the printer you want to configure, check the printer name against the
configuration page printed from the printer. For details about printing a configuration page, see
p.99 "Test Printing".

- If no printer names appear in the list, match the frame types of IPX/SPX for the computer and printer.

  Use the [Network] dialog box of Windows to change the frame type of the computer.
- For details about Web Image Monitor, see p.135 "Using Web Image Monitor".

# Setting Up as a Remote Printer (NetWare 3.x)

Follow the procedure below to use the printer as a remote printer under NetWare 3.x.

# **Setting up using PCONSOLE**

1. Enter "PCONSOLE" from the command prompt.

F:> PCONSOLE

2. Create a print queue.

When using the existing print queue, go to the procedure for creating a printer.

- 3. From the [Available Options] menu, select [Print Queue Information], and then press the [Enter] key.
- 4. Press [Insert] key, and then enter a print queue name.
- 5. Press [Esc] key to return to the [Available Options] menu.
- 6. Set up the network connection to a printer.
- On the [Available Options] menu, click [Print Server Information], and then press the [Enter] key.
- 8. To create a new print server, press the [Insert] key, and then enter a print server name.

  For a currently defined print server, select a print server in the [Print Server] list.
- 9. From the [Print Server Information] menu, select [Print Server Configuration].
- 10. From the [Print Server Configuration] menu, select [Printer Configuration].
- 11. Select the printer indicated as [Not Installed].
- 12. To change the printer name, enter a new name.

A name "printer x" is assigned to the printer. The "x" stands for the number of the selected printer.

13. As type, select [Remote Parallel, LPT1].

The IRQ, Buffer size, Starting form, and Queue service mode are automatically configured.

- 14. Press the [Esc] key, and then click [Yes] on the confirmation message.
- 15. Press the [Esc] key to return to [Print Server Configuration Menu].
- 16. Assign print queues to the created printer.
- 17. From [Print Server Configuration Menu], select [Queues Serviced By Printer].
- 18. Select the printer created.

19. Press the [Insert] key to select a queue serviced by the printer.

You can select several queues.

20. Follow the instructions on the screen to make other necessary settings.

Following these steps, check that the queues are assigned.

- 21. Press the [Esc] key until "Exit?" appears, and then select [Yes] to exit PCONSOLE.
- 22. Start the print server by entering the following from the console of the NetWare server.

If the print server is in operation, quit and restart it.

## To quit

CAREE: unload pserver

#### To start

CAREE: load pserver print\_server\_name

If the printer works as configured, the message "Waiting for job" appears.

#### Setting up using Web Image Monitor

1. Log in to Web Image Monitor as an administrator.

For details about logging in, see p.139 "Access in the Administrator Mode".

- 2. Click [Configuration] in the menu area, and then click [NetWare Print Settings].
- 3. Confirm the settings, and then click [Device Name].

Configuration is now complete. Wait several minutes before restarting Web Image Monitor.

- 4. Click [Logout].
- 5. Quit Web Image Monitor.



- If you cannot identify the printer you want to configure, check the printer name against the
  configuration page printed from the printer. For details about printing a configuration page, see
  p.99 "Test Printing".
- If no printer names appear in the list, match the frame types of IPX/SPX for the computer and printer.

  Use the [Network] dialog box of Windows to change the frame type of the computer.
- For details about Web Image Monitor, see p.135 "Using Web Image Monitor".

# Setting Up as a Remote Printer (NetWare 4.x, 5 / 5.1, 6 / 6.5)

Follow the procedure below to use the printer as a remote printer under NetWare 4.x, 5 / 5.1 and 6 / 6.5.



To use the printer as a remote printer under NetWare 4.x, 5 / 5.1, 6 / 6.5, set it to NDS mode.

- 1. From Windows, start NWadmin.
  - For details about NWadmin, see the NetWare manuals.

Do not use the printer as a remote printer when Pure IP is used.

- 2. Set up the network connection to a print queue. Select the object in which the print queue is located in the directory tree, and then click [Create] on the [Object] menu.
- 3. In the [Class of new object] box, click [Print Queue], and then click [OK].
- 4. In the [Print Queue Name] box, enter the name of the print queue.
- 5. In the [Print Queue Volume] box, click [Browse].
- In the [Available objects] box, click the volume in which the print queue is created, and then click [OK].
- 7. Check the settings, and then click [Create].
- 8. Set up the network connection to a printer. Select the object in which the printer is located, and then click [Create] on the [Object] menu.
- 9. In the [Class of new object] box, click [Printer], and then click [OK]. For NetWare 5, click [Printer (Non NDPS)].
- 10. In the [Printer name] box, enter the printer name.
- 11. Select the [Define additional properties] check box, and then click [Create].
- 12. Assign print queues to the created printer. Click [Assignments, and then click [Add] in the [Assignments] area.
- 13. In the [Available objects] box, click the queue you created, and then click [OK].
- 14. Click [Configuration], click [Parallel] in the [Printer type] list, and then click [Communication].
- Click [Manual load] in the [Communication type] area, and then click [OK]. Check the settings, and then click [OK].
- 16. Set up the network connection to a print server. Select a context specified, and then click [Create] on the [Object] menu.
- 17. In the [Class of new object] box, click [Print Server], and then click [OK]. For NetWare 5, click [Print Server (Non NDPS)].
- 18. In the [Print Server Name:] box, enter the print server name.
- 19. Select the [Define additional properties] check box, and then click [Create].
- 20. Assign the printer to the created print server. Click [Assignments], and then click [Add] in the [Assignments] area.
- 21. In the [Available objects] box, click the queue you created, and then click [OK].
- 22. In the [Printers] area, click the printer you assigned, and then click [Printer Number].

- 23. Enter the printer number, and then click [OK]. Check the settings, and then click [OK].
- 24. Start the print server by entering the following from the console of the NetWare server.

If the print server is in operation, quit and restart it.

#### To exit

CAREE: unload pserver

#### To start

CAREE: load pserver print\_server\_name

- 25. Enter the printer server name as the context name, and then press the [Enter] key.
- 26. Select the printer name on the context menu, and then press the [Enter] key.

#### Setting up using Web Image Monitor

- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. Click [Configuration] in the menu area, and then click [NetWare Print Settings].
- Confirm the settings, and then click [Device Name].
   Configuration is now complete. Wait several minutes before restarting Web Image Monitor.
- 4. Click [Logout].
- 5. Quit Web Image Monitor.



- If you cannot identify the printer you want to configure, check the printer name against the configuration page printed from the printer. For details about printing a configuration page, see p.99 "Test Printing".
- If no printer names appear in the list, match the frame types of IPX/SPX for the computer and printer. Use the [Network] dialog box of Windows to change the frame type of the computer.
- For details about Web Image Monitor, see p.135 "Using Web Image Monitor".

This chapter explains how to use this printer with PostScript 3.

# **Using PostScript 3**

The following section explains how to use the PostScript 3 printer driver.

For details about installing the PostScript 3 printer driver, see Driver Installation Guide.

# Job Type

Use this to select the type of print job.



- If you are using a printer with ELP-NX installed, all print jobs for which "Locked Print" is specified are stored in ELP-NX when user authentication is not set. Also note that any jobs for which "Locked Print" is not specified will be deleted according to the default setting of ELP-NX.
- For details about how to print using ELP-NX, see the manuals provided with the application.
- For details about the option settings of ELP-NX, consult your administrator.

The following shows the tabs or menus where you can select this function.

[Job Type:] on [Job Log] in the print dialog box.

You can select the following items:

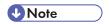
#### **Normal Print**

Select this for normal printing. The print job starts immediately after the print command is given.

## **Sample Print**

Use this function to print only one set of a multiple print jobs.

The other sets are saved in the printer. The saved job can be printed from the printer's control panel. You can also delete the saved job.



- The user ID can contain up to eight alphanumeric characters (a-z, A-Z, 0-9). The password can contain 4-8 digits.
- Entering a user ID helps you distinguish your print jobs from others.

#### **Locked Print**

Use this function to save documents in the printer memory with a password, and then edit and print them as you want.

- The user ID can contain up to eight alphanumeric characters (a-z, A-Z, 0-9). The password can contain 4-8 digits.
- Entering a user ID helps you distinguish your print jobs from others.

#### **Hold Print**

Use this function to temporarily hold a file in the printer, and print it from the computer or the printer's control panel later.



- "User ID:" can contain up to eight alphanumeric (a- z, A- Z, 0- 9) characters.
- "File Name:" can contain to 16 alphanumeric (a-z, A-Z, 0-9) characters.
- Entering a user ID helps you distinguish your print jobs from others.

#### **Stored Print**

Use this function to store a file in the printer, and then print it from the computer or the printer's control panel later.



- The user ID can contain up to eight alphanumeric characters (a-z, A-Z, 0-9). The password can contain 4-8 digits.
- The File Name can contain up to 16 alphanumeric characters (a-z, A-Z, 0-9).
- You can assign a password to a saved document, but password assignment is not mandatory.
- Entering a user ID helps you distinguish your print jobs from others.

#### Store and Print

Use this function to prints the file at once and also stores the file in the printer.



- The user ID can contain up to eight alphanumeric characters (a-z, A-Z, 0-9). The password can contain 4-8 digits.
- The File Name can contain up to 16 alphanumeric characters (a-z, A-Z, 0-9).
- You can assign a password to a saved document, but password assignment is not mandatory.
- Entering a user ID helps you distinguish your print jobs from others.

# **Using Sample Print**



- You need Mac OS X 10.2 or higher to use this function.
- This function is available only if the hard disk is installed on the printer.

- The number of pages the printer can save varies depending on the contents of the print images. At
  most, the printer can save 100 jobs or 9,000 pages for Sample Print, Locked Print, Hold Print, and
  Stored Print.
- Sample Print files will not appear on the display panel if they have already been executed or deleted
  using the Web browser before you select [Sample Print] from the control panel.
- Sample Print files printed or deleted using Web Image Monitor after you select [Sample Print] using
  the control panel will appear on the display panel. However, an error message will appear if you try
  to print or delete those Sample Print files.
- If the application has a collate option, be sure to disable it before you send a print job. By default, sample print jobs are automatically collated by the printer driver. If the collate option is selected in the application's print dialog box, more prints than intended may be printed.
- Print jobs are not saved on the hard disk in the following cases. You can check the error log for jobs not saved.
  - When there are 100 Sample Print, Locked Print, Hold Print, and Stored Print jobs saved on the hard disk.
  - When the total number of pages saved on the hard disk exceeds 9,000 pages.

# Sending a Sample Print file

- 1. In the application, on the [File] menu, click [Print].
- 2. Set the number of copies to two or more.

The sample print job is sent to the printer, and one set is printed.

- 3. In the pop-up menu, click [Job Log].
- 4. On the [Job Type:] pop-up menu, select [Sample Print].
- In the [User ID:] box, enter a user ID using up to eight alphanumeric (a-z, A-Z, 0-9) characters.

The user ID associates the user with his/her jobs.

6. Check the printed output to make sure the settings are correct.

If the settings are correct, perform the following steps to print the remaining sets.

#### Printing a selected Sample Print file

To print a saved job, use the printer's control panel. For details, see p.65 "Printing a Sample Print file using the control panel".

#### Deleting a selected Sample Print file

If you want to delete a saved job, see p.66 "Deleting Sample Print files".

# **Using Locked Print**

# **Important**

- You need Mac OS X 10.2 or higher to use this function.
- This function is available only if the hard disk is installed on the printer.
- The number of pages the printer can save varies depending on the contents of the print images. At
  most, the printer can save 100 jobs or 9,000 pages for Sample Print, Locked Print and Hold Print.
- Locked Print files will not appear on the display panel if they have already been printed or deleted using Web Image Monitor before you select [Locked Print] using the control panel.
- Locked Print files printed or deleted using Web Image Monitor after you have selected [Locked Print]
  using the control panel will still appear on the display panel. However, an error message will appear
  if you try to print or delete those Locked Print files.
- If the application has a collate option, be sure to disable it before you send a print job. By default, locked print jobs are automatically collated by the printer driver. If the collate option is selected in the application's print dialog box, more prints than intended may be printed.
- Print jobs are not saved on the hard disk in the following cases. You can check the error log for jobs not saved.
  - When there are 100 Sample Print, Locked Print, Hold Print, and Stored Print jobs saved on the hard disk.
  - When the total number of pages saved on the hard disk exceeds 9,000 pages.

## Sending a Locked Print file

- 1. In the application, click [Print] on the [File] menu.
- 2. In the pop-up menu, click [Job Log].
- 3. On the [Job Type:] pop-up menu, click [Locked Print].
- 4. In the [User ID:] box, enter a user ID using up to eight alphanumeric (a-z, A-Z, 0-9) characters, and then enter a 4-8 digit password in the Password: box.
  - The user ID associates the user with his/her jobs.
- 5. After making the necessary settings, click [Print].

The document file is saved in the printer.

To print the document, perform the following steps.

#### Printing a selected Locked Print file

To print a saved job, use the printer's control panel. For details, see p.68 "Printing a Locked Print file using the control panel".

#### Deleting a selected Locked Print file

If you want to delete a saved job, see p.69 "Deleting Locked Print files".

# **Using Hold Print**

# 

- You need Mac OS X 10.2 or higher to use this function.
- This function is available only if the hard disk is installed on the printer.
- The number of pages the printer can save varies depending on the contents of the print images. At
  most, the printer can save 100 jobs or 9,000 pages for Sample Print, Locked Print and Hold Print.
- Hold Print files will not appear on the display panel if they have already been printed or deleted using Web Image Monitor before you select [Hold Print] using the control panel.
- Hold Print files printed or deleted using Web Image Monitor after you have selected [Hold Print] using
  the control panel will still appear on the display panel. However, an error message will appear if you
  try to print or delete those Hold Print files.
- If the application has a collate option, be sure to disable it before you send a print job. By default,
  Hold print jobs are automatically collated by the printer driver. If the collate option is selected in the
  application's print dialog box, more prints than intended may be printed.
- Print jobs are not saved on the hard disk in the following cases. You can check the error log for jobs not saved.
  - When there are 100 Sample Print, Locked Print, Hold Print, and Stored Print jobs saved on the hard disk.
  - When the total number of pages saved on the hard disk exceeds 9,000 pages.

# Sending a Hold Print file

- 1. In the application, click [Print] on the [File] menu.
- 2. In the pop-up menu, click [Job Log].
- 3. On the [Job Type:] pop-up menu, click [Hold Print].
- 4. In the [User ID:] box, enter a user ID using up to eight alphanumeric (a-z, A-Z, 0-9) characters. [File Name] can also be set.
  - The user ID associates the user with his/her jobs.
- 5. After making the necessary settings, click [Print].
  - The document file is saved in the printer.
  - To print the document, perform the following steps.

#### Printing a selected Hold Print file

To print a saved job, use the printer's control panel. For details, see p.72 "Printing a Hold Print file using the control panel".

#### Deleting a selected Hold Print file

If you want to delete a saved job, see p.73 "Deleting Hold Print files".

# **Using Stored Print**

# **Important**

- You need Mac OS X 10.2 or higher to use this function.
- This function is available only if the hard disk is installed on the printer.
- Stored Print files will not appear on the display panel if they have already been printed or deleted using Web Image Monitor before you select [Stored Print] using the control panel.
- Stored Print files printed or deleted using Web Image Monitor after you have selected [Stored Print]
  using the control panel will still appear on the display panel. However, an error message will appear
  if you try to print or delete those Stored Print files.
- If the application has a collate option, be sure to disable it before you send a print job. By default,
   Stored print jobs are automatically collated by the printer driver. If the collate option is selected in the application's print dialog box, more prints than intended may be printed.
- Print jobs are not saved on the hard disk in the following cases. You can check the error log for jobs not saved.
  - When there are 100 Sample Print, Locked Print, Hold Print, and Stored Print jobs saved on the hard disk.
  - When the total number of pages saved on the hard disk exceeds 9,000 pages.

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#### Sending a Stored Print file

- 1. In the application, click [Print] on the [File] menu.
- 2. In the pop-up menu, click [Job Log].
- 3. On the [Job Type:] pop-up menu, click [Stored Print] or [Store and Print].
  - [Stored Print]
    - Stores the file in the printer and print it later using the control panel.
  - [Store and Print]
    - Prints the file at once and also stores the file in the printer.
- 4. In the [User ID:] box, enter a user ID using up to eight alphanumeric (a-z, A-Z, 0-9) characters, and then enter a 4-8 digit password in the [Password:] box. [File Name] can also be set.

The user ID associates the user with his/her jobs.

You can assign a password to a saved document, but password assignment is not mandatory.

The password must be entered when printing or deleting.

5. After making the necessary settings, click [Print].

The document file is saved in the printer.

To print the document, perform the following steps.

# Printing a selected Stored Print file

To print a saved job, use the printer's control panel. For details, see p.75 "Printing a Stored Print file using the control panel".

# Deleting a selected Stored Print file

If you want to delete a saved job, see p.76 "Deleting Stored Print files".

# **Paper Type**

Use this to select the paper type.

The following shows where you can select this function.

[Paper Type] is displayed under [General 1] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

# Fit to Paper

When the size of the document and paper size differ, set whether or not to print according to paper size.

The following shows where you can select this function.

[Fit to Paper] is displayed under [General 1] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

#### **Prompt User**

Print is performed with the size of document to be printed unchanged.

## **Nearest Size and Scale**

If the paper size is smaller than the selected paper size, the driver reduces the print size.

If the paper size is larger than the size of document to be printed, print is not to fit the paper size.

## **Nearest Size and Crop**

Print is performed regardless of any differences between selected and actual paper size. However, the print output is not adjusted to fit the paper size.

# **Print Mode**

Use this mode to select the print mode you want to use.

[Print Mode] is displayed under [General 1] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

#### Off

Prints in normal quality.

# **Edge Smoothing**

Select whether or not to smooth the edges of texts and images when printing. If this setting is enabled, gradation in images might be degraded.

# **Toner Saving 1**

Reduces toner consumption when printing. If this setting is enabled, print quality might be degraded.

## **Toner Saving 2**

Further reduces toner consumption when printing. If this setting is enabled, print quality might be degraded.

# **Image Smoothing**

Use this to select the image smoothing type.

The following shows where you can select this function.

[Image Smoothing] is displayed under [General 1] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

You can select from the following items:

#### Off

Disables image smoothing.

# On

Performs image smoothing unconditionally.

#### **Auto**

Performs image smoothing automatically for images that have a resolution less than 25% of supported printer resolution.

# Less than 90 ppi to Less than 300 ppi

Performs image smoothing only when the image has an image resolution (pixels per inch) less than the respective value you have selected in the list.

# **U** Note

- When [Auto] is selected, data processing may take a long time.
- When Image Smoothing is used for a mask image, this function may have an undesired effect on the print result.

## Gradation

Use this to select a type of gradation based on your purpose.

The following shows where you can select this function.

[Gradation] is displayed under [General 1] in the [Feature Sets:] list on [Printer Features] in the print dialog box.



For details about the gradation types, see the printer driver Help.

# **Dithering**

Use this to set the Image Rendering mode.

The following shows where you can select this function.

[Dithering] is displayed under [General 1] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

You can select from the following items:

#### **Auto**

Use this setting to configure the best dithering method automatically depending on the appearance of the document to be printed.

# **Photographic**

Performs dithering using an appropriate pattern for photographs.

#### **Text**

Performs dithering using an appropriate pattern for text.

# **User Setting**

Use this setting to print images set in halftones in your application.

# Rotate by 180 degrees

Use this to rotate the print image by 180 degrees.

The following shows where you can select this function.

[Rotate by 180 degrees] is displayed under [General 2] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

#### Orientation Override

Use this to set the paper orientation.

The following shows where you can select this function.

[Orientation Override] is displayed under [General 2] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

You can select from the following items:

- Off
- Landscape
- Portrait

# Watermark

Set the Watermark function.

The following shows where you can select this function.

[Watermark] is displayed under [General 2] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

# Watermark Text

Select the Watermark Text type.

The following shows where you can select this function.

[Watermark Text] is displayed under [General 2] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

# Watermark Font

Select the Watermark Font type.

The following shows where you can select this function.

[Watermark Font] is displayed under [General 2] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

## Watermark Size

Select the Watermark size.

The following shows where you can select this function.

[Watermark Size] is displayed under [General 2] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

# Watermark Angle

Select the Watermark angle.

The following shows where you can select this function.

[Watermark Angle] is displayed under [General 3] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

# Watermark Style

Select the Watermark style.

The following shows where you can select this function.

[Watermark Style] is displayed under [General 3] in the [Feature Sets:] list on [Printer Features] in the print dialog box.

# When Using Windows Terminal Service/Citrix Presentation Server/Citrix XenApp

The following explains how to use Windows Terminal Service and Maintenance.

# **Operating Environment**

The following operating systems and Citrix Presentation Server/Citrix XenApp versions are supported.

# Citrix Presentation Server 4.5/ Citrix XenApp 5.0

- Windows Server 2003/2003 R2
- Windows Server 2008/2008 R2

# **Supported Printer Drivers**

# When Windows Terminal Service is operating

- PCL printer drivers
- PostScript 3 printer driver

# Limitations

The following limitations apply to the Windows Terminal Service environment.

These limitations are built in Windows Terminal Service or Citrix Presentation Server/Citrix XenApp.

## Citrix Presentation Server/Citrix XenApp [Auto-creating client printers]

Using [Auto-creating client printers] can select a logical printer created by copying the client's local printer data to the Citrix Presentation Server/Citrix XenApp. We strongly recommend testing this function in your network environment before using it for your work.

- The settings for optional equipment will not be stored in the server after the equipment is
  disconnected. The settings for optional equipment will be restored to its defaults each time the
  client computer logs on to the server.
- When printing a large number of bitmap images or using the server in a WAN environment over dial-up lines such as ISDN, printing may not be possible or errors may occur, depending on data transfer rates.

# Citrix Presentation Server/Citrix XenApp [Printer driver replication]

Using [Printer driver replication] can distribute printer drivers across all servers in a server farm. We strongly recommend testing this function in your network environment before using it for your work.

• If the printer drivers are not properly copied, install them directly onto each server.

# **Using DHCP**

You can use the printer in a DHCP environment. You can also register the printer NetBIOS name on a WINS server when it is running.

- Printers that register the printer NetBIOS name on a WINS server must be configured for the WINS server.
- Supported DHCP servers are Microsoft DHCP Server included with Windows Server 2003/2003 R2/2008/2008 R2, and the DHCP server included with NetWare and UNIX.
- If you do not use the WINS server, reserve the printer's IP address in the DHCP server so the same IP address is assigned every time.
- To use the WINS server, change the WINS server setting to "active" using the control panel.
- Using the WINS server, you can configure the host name via the remote network printer port.
- DHCP relay-agent is not supported. If you use DHCP relay-agent on a network via ISDN, it will result
  in increased line charges. This is because your computer connects to the ISDN line whenever a packet
  is transferred from the printer.
- If there is more than one DHCP server, use the same setting for all servers. The printer operates using data from the DHCP server that responds first.
- DHCP servers can operate in an IPv6 environment, but they cannot be configured to allocate IPv6 addresses or obtain host names.

# **Using AutoNet**

If the printer IPv4 address is not automatically assigned by the DHCP server, a temporary IP address starting with 169.254 and not used on the network can be automatically selected by the printer.

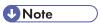


- The IP address assigned by the DHCP server is given priority over that selected by AutoNet.
- You can confirm the current IPv4 address on the configuration page. For more information about the configuration page, see p.99 "Test Printing".
- When AutoNet is running, the NetBIOS name is not registered on the WINS server.
- The printer cannot communicate with devices that do not have the AutoNet function. However, this
  printer can communicate with Macintosh computers running Mac OS X 10.2.3. or higher.

# Configuring the WINS Server

The printer can be configured to register its NetBIOS name with a WINS server when the power is turned on. This enables the NetBIOS name of the printer to be specified from Web Image Monitor even in a DHCP environment.

This section explains configuring the WINS server.



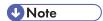
- WINS servers are supported by Windows Server 2003 or later.
- For details about the WINS server settings, see Windows Help.
- If there is no reply from the WINS server, the NetBIOS name is registered by broadcast.
- The NetBIOS name can be entered using up to 13 alphanumeric characters.

# **Using Web Image Monitor**

- Log in to Web Image Monitor as an administrator.
   For details about logging in, see p.139 "Access in the Administrator Mode".
- 2. In the menu area, click [Configuration].
- 3. Click [Network] and then click [IPv4].
- 4. Check that [Active] is selected for [WINS] in the [Ethernet + Wireless LAN] column, and then enter the WINS server IPv4 address in [Primary WINS Server] and [Secondary WINS Server].
- 5. Click [OK].
- 6. Quit Web Image Monitor.

# Using telnet

Use the telnet "wins" command to configure WINS.



• For details, see "Using telnet", UNIX Supplement.

# **Using the Dynamic DNS Function**

Dynamic DNS is a function which dynamically updates (registers and deletes) records (A record, AAAA record, CNAME, and PTR record) managed by the DNS server. When a DNS server is part of the network environment to which this printer, a DNS client, is connected, records can be dynamically updated using this function.

#### **Updating**

Updating procedure varies depending on whether the printer IP address is static or acquired by DHCP.



• Dynamic update using message authentication (TSIG, SIG(0)) is not supported.

#### For a static IPv4 setting

If the IP address or host name is changed, the A and PTR records are updated. If the A record is registered, CNAME is also registered. CNAMEs that can be registered are as follows:

Ethernet and Wireless LAN
 RNPXXXXXX (XXXXXX represents the last 3 hexadecimal bytes of the MAC address)
 However, if CNAME (RNPXXXXXX) overlaps with the host name, CNAME will not be registered.

#### For DHCPv4 settings

As a substitute for the printer, the DHCP server updates the record, and one of the following occurs:

- When the printer acquires the IP address from the DHCP server, the DHCP server updates the A and PTR records.
- When the printer acquires the IP address from the DHCP server, the printer updates the A record, and the DHCP server updates the PTR record.

If the A record is registered, CNAME is also registered. CNAMEs that can be registered are as follows:

Ethernet and Wireless LAN
 RNPXXXXXX (XXXXXX represents the last 3 hexadecimal bytes of the MAC address)

#### For IPv6 settings

This printer updates the AAAA record and PTR record.

It also registers CNAME when the AAAA record is updated.

When a stateless address is newly set, it is automatically registered on the DNS server also.



- When the dynamic DNS function is not used, records managed by the DNS server must be updated manually, if the printer's IP address is changed.
- To update the record using the printer, the DNS server has to have one of the following:

- No security settings made.
- If security settings are made, an IP-specified client (this printer) permits updating.

#### **DNS Servers Targeted for Operation**

#### For static IP setting

- Microsoft DNS servers with standard Windows Server 2003/2003 R2/2008/2008 R2 features
- BIND 8.2.3 or higher

#### For DHCP setup, when the printer updates the A record

- Microsoft DNS servers with standard Windows Server 2003/2003 R2/2008/2008 R2 features
- BIND 8.2.3 or higher

#### For DHCP setup, when the DHCP server updates records

- Microsoft DNS servers with standard Windows Server 2003/2003 R2/2008/2008 R2 features
- BIND 8.2.3 or higher
- DNS servers with standard NetWare 5 (or a higher version) features

#### For IPv6 setting

- Microsoft DNS servers with standard Windows Server 2003/2003 R2/2008/2008 R2 features
- BIND 9.2.3 or higher

## **DHCP Servers Targeted for Operation**

As a substitute for the printer, DHCP servers capable of updating the A record and PTR record are as follows:

- Microsoft DHCP servers with standard Windows Server 2003/2003 R2/2008 features
- ISC DHCP 3.0 or higher
- DHCP server with standard NetWare 5 features

#### **Setting the Dynamic DNS Function**

Use the telnet "dns" command to configure DNS.

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• For details, see "Using telnet", UNIX Supplement.

## **Precautions**

Please pay attention to the following when using the network interface board. When configuration is necessary, follow the appropriate procedures below.

#### Connecting a Dial-Up Router to a Network

#### When using NetWare (file server)

If the NetWare file server and printer are on opposite sides of a router, packets are sent back and forth continuously, possibly incurring communications charges. Because packet transmission is a feature of NetWare, you need to change the configuration of the router. If the network you are using does not allow you to configure the router, configure the printer instead.

#### Configuring the router

Filter packets so they do not pass over the dial-up router.

#### Configuring the printer with NetWare

- 1. Following the setup method described earlier in this manual, configure the file server.
- 2. Set the frame type for NetWare environment.

#### Configuring the printer without NetWare

1. When not printing, the network interface board sends packets over the network. Set NetWare to "inactive".

#### **U** Note

- The MAC address of the filtering printer is printed on the printer configuration page. For more information about printing a configuration page, see p.99 "Test Printing".
- For more information about configuring the printer if the router cannot be configured, see the following instructions.
- For more information about selecting a frame type, see "Ethernet Configuration", Hardware Guide.
- For more information about selecting a protocol, see "Ethernet Configuration", Hardware Guide.

#### When the Wireless LAN Interface Unit is Installed

When using the Wireless LAN interface on the network, note the following:

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#### If the network area provides poor radio environment

Where radio wave conditions are bad, the network may not function due to interrupted or failed connections. When checking the Wireless LAN signal and the access point, follow the procedure below to improve the situation:

- Position the access point nearer to the printer.
- Clear the space between access point and printer of obstructions.
- Move radio wave generating appliances, such as microwaves, away from the printer and access
  point.



- For information about how to check radio wave status, see "Wireless LAN Configuration", Hardware Guide.
- For more information about access point radio wave conditions, refer to the access point manual.

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