

Operating Instructions Software Guide

- 1** Preparing for Printing
- 2** Setting Up the Printer Driver
- 3** Other Print Operations
- 4** Direct Printing from a Digital Camera (PictBridge)
- 5** Making Printer Settings Using the Control Panel
- 6** Monitoring and Configuring the Printer
- 7** Using a Printer Server
- 8** Special Operations under Windows
- 9** Mac OS Configuration
- 10** Security Measures Provided by this Printer
- 11** Appendix

Read this manual carefully before you use this machine and keep it handy for future reference. For safe and correct use, be sure to read the Safety Information before using the machine.

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.

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.

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.

Caution:

Use of controls or adjustments or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

Trademarks

Microsoft, Windows, Windows NT are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Adobe®, PostScript®, Acrobat®, PageMaker® and Adobe Type Manager are registered trademarks of Adobe Systems Incorporated.

PowerPC is a registered trademark of International Business Machines Corporation.

PCL® is a registered trademark of Hewlett-Packard Company.

3Com is a trade mark of 3Com corporation.

Citrix® and MetaFrame® are registered trademarks of Citrix Systems, Inc

UPnP is a trademark of the UPnP Implementers Corporation.

Apple, AppleTalk, EtherTalk, Macintosh, Mac OS and TrueType are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.

Bonjour™ is a trademark of Apple Computer, Inc.,

UNIX is a registered trademark in the United States and other countries, licensed exclusively through X/Open Company Limited.

IPS-PRINT™ Printer Language Emulation Copyright© 2000, Oak Technology, Inc., All Rights Reserved.

The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Ricoh Company, Ltd. is under license.

Novell, NetWare are registered trademarks of Novell, Inc.

Netscape and Netscape Navigator are registered trademarks of Netscape Communications Corporation.

PictBridge is a trademark.

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights in those marks.

The proper names of the Windows operating systems are as follows:

- The product name of Windows® 95 is Microsoft® Windows 95.
- The product name of Windows® 98 is Microsoft® Windows 98.
- The product name of Windows® Me is Microsoft® Windows Millennium Edition (Windows Me).
- The product names of Windows® 2000 are as follows:
Microsoft® Windows® 2000 Advanced Server
Microsoft® Windows® 2000 Server
Microsoft® Windows® 2000 Professional
- The product names of Windows® XP are as follows:
Microsoft® Windows® XP Professional
Microsoft® Windows® XP Home Edition
- The product names of Windows Server™ 2003 are as follows:
Microsoft® Windows Server™ 2003 Standard Edition
Microsoft® Windows Server™ 2003 Enterprise Edition
Microsoft® Windows Server™ 2003 Web Edition
- The product names of Windows NT® 4.0 are as follows:
Microsoft® Windows NT® Server 4.0
- Microsoft® Windows NT® Workstation 4.0

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

Manuals for This Printer

For particular functions, see the relevant parts of the manual.

❖ Safety Information

Provides information on safe usage of this machine. To avoid injury and prevent damage to the machine, be sure to read this.

❖ Quick Installation Guide

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

❖ Hardware Guide

Contains information about paper and procedures such as installing options, replacing consumables, responding to error messages, and resolving jams.

❖ Software Guide (This manual)

Contain procedures for using this machine in a network environment, utilizing the software, and using security functions.

❖ Security Guide

This manual is for administrators of the machine. It explains security functions that the administrators can use to protect data from being tampered, or prevent the machine from unauthorized use. Also refer to this manual for the procedures for registering administrators, as well as setting user and administrator authentication.

Description for the Specified Model

In this manual, the following items explain about the printer for the specified models:

220-240V

This explains about the 220–240 V model printer. You can identify the model by checking the label on the rear of the printer.

Read if you purchase this model.

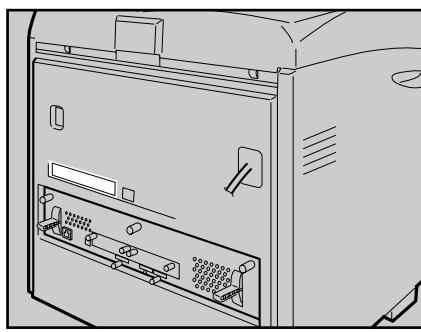
120V

This explains about the 120 V model printer. You can identify the model by checking the label on the rear of the printer.

Read if you purchase this model.

Note

- You can identify the printer's model by checking the label on the rear of the printer as shown.



AQC065S

How to Read This Manual

Symbols

This manual uses the following symbols:

 **WARNING:**

Indicates important safety notes.

Ignoring these notes could result in serious injury or death. Be sure to read these notes. They can be found in the Safety Information.

 **CAUTION:**

Indicates important safety notes.

Ignoring these notes could result in moderate or minor injury, or damage to the machine or to property. Be sure to read these notes. They can be found in the Safety Information.

 **Important**

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.

 **Note**

Indicates supplementary explanations of the printer'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 that appear on the printer's display panel.

[]

Indicates the names of keys on the printer's control panel.

TABLE OF CONTENTS

Manuals for This Printer	i
Description for the Specified Model.....	ii
How to Read This Manual	iii
Symbols	iii

1. Preparing for Printing

Quick Install.....	1
Confirming the Connection Method.....	3
Network Connection.....	3
Local Connection	6
Using the SmartDeviceMonitor Port	7
Installing DeskTopBinder-SmartDeviceMonitor for Client	7
Installing the PCL or RPCS Printer Driver (TCP/IP).....	8
Installing the PCL or RPCS Printer Driver (IPP)	9
Installing the PostScript 3 Printer Driver (Windows 95/98/Me - TCP/IP).....	11
Installing the PostScript 3 Printer Driver (Windows 95/98/Me - IPP)	12
Installing the PostScript 3 Printer Driver (Windows 2000 - TCP/IP).....	14
Installing the PostScript 3 Printer Driver (Windows 2000 - IPP)	15
Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003 - TCP/IP)....	17
Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003 - IPP)...	18
Changing the Port Settings for SmartDeviceMonitor for Client	19
Using the Standard TCP/IP Port	21
Installing the PCL or RPCS Printer Driver.....	21
Installing the PostScript 3 Printer Driver (Windows 2000)	22
Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003)	24
Using the LPR Port	26
Installing the PCL or RPCS Printer Driver.....	26
Installing the PostScript 3 Printer Driver (Windows 2000)	27
Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003)	28
Using as the Windows Network Printer	30
Installing the PCL or RPCS Printer Driver.....	30
Installing the PostScript 3 Printer Driver (Windows 95/98/Me)	31
Installing the PostScript 3 Printer Driver (Windows 2000)	32
Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003)	33
Using as the NetWare Print Server/Remote Printer.....	35
When using the PostScript 3 Printer Driver.....	37
Form Feed.....	37
Banner Page	37
Printing after Resetting the Printer	38
Installing the Printer Driver Using USB	39
Windows Me - USB	39
Windows 2000 - USB	41
Windows XP, Windows Server 2003 - USB	42
Troubleshooting USB	43

Printing with Parallel Connection.....	44
Installing the PCL or RPCS Printer Driver.....	44
Installing the PostScript 3 Printer Driver (Windows 95/98/Me)	45
Installing the PostScript 3 Printer Driver (Windows 2000)	46
Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003)	47
Printing with Bluetooth Connection.....	48
Supported Profiles.....	48
Printing with Bluetooth Connection	48
If a Message Appears during Installation	51
Making Option Settings for the Printer	52
Conditions for Bidirectional Communication	52
If Bidirectional Communication is Disabled	54

2. Setting Up the Printer Driver

PCL - Accessing the Printer Properties.....	55
Windows 95/98/Me - Accessing the Printer Properties	55
Windows 2000 - Accessing the Printer Properties	56
Windows XP, Windows Server 2003 - Accessing the Printer Properties	58
Windows NT 4.0 - Accessing the Printer Properties	59
RPCS - Accessing the Printer Properties	62
Windows 95/98/Me - Accessing the Printer Properties	62
Windows 2000 - Accessing the Printer Properties	63
Windows XP, Windows Server 2003 - Accessing the Printer Properties	65
Windows NT 4.0 - Accessing the Printer Properties	67
PostScript 3 - Setting Up for Printing	70
Windows 95/98/Me - Accessing the Printer Properties	70
Windows 2000 - Accessing the Printer Properties	71
Windows XP, Windows Server 2003 - Accessing the Printer Properties	73
Windows NT 4.0 - Accessing the Printer Properties	74
Mac OS - Setting Up for Printing.....	76

3. Other Print Operations

Printing a PDF File Directly.....	77
Printing Method	77
Using Commands.....	80
Unauthorized Copy Control	81
Using [Data security for copying]	81
Using [Mask type:]	83
Important Notice	84
Using the Print Job Function.....	85
Using Keys	88
Printing from the Print Job Screen	89
Sample Print.....	89
Locked Print	92
Hold Print	95
Stored Print	98
Printing from the User ID Screen	103
Printing the Selected Print Job.....	103
Printing All Print Jobs	104

Form Feed.....	106
Printing from a Selected Tray.....	106
Canceling a Print Job	107
Cancelling a Print Job	108
Canceling a Print Job Using the Control Panel	108
Windows - Canceling a Print Job from the computer	108
Mac OS - Canceling a Print Job from the computer.....	109
Checking the Error Log	110
Collate	112
Spool Printing	113
Setting Spool Printing.....	113
Viewing or Deleting spooled jobs using Web Image Monitor	114
Cover.....	115
Memory Capacity and Paper Size.....	116
One-sided printing (600 × 600 dpi).....	116
One-sided printing (1200 × 600 dpi).....	116
One-sided printing (1200 × 1200 dpi).....	116
Duplex printing (600 × 600 dpi)	117
Duplex printing (1200 × 600 dpi)	117
Duplex printing (1200 × 1200 dpi)	117

4. Direct Printing from a Digital Camera (PictBridge)

What is PictBridge?	119
PictBridge Printing	120
What Can Be Done on This printer.....	122
Index Printing	122
Trimming	123
Date and File Name Printing	123
Paper Size.....	123
Image Print Size	124
Multi-Image-Layout	125
Printing Quality.....	126
Color Matching	126
Paper type Specification	126
Form Printing.....	126
Camera Memo Printing	126
Exiting PictBridge	127
When PictBridge Printing Does Not Work.....	128
Other Reference Information	129

5. Making Printer Settings Using the Control Panel

Menu Chart	131
Memory Erase Status Menu	134
Paper Input Menu.....	135
Changing the Paper Input Menu	135
Paper Input menu parameters	136
Maintenance Menu.....	140
Changing the maintenance menu	140
Maintenance menu parameters	141

List/Test Print Menu.....	147
Printing a Configuration Page	147
Interpreting the configuration page	148
List/Test Print menu parameters.....	150
System Menu.....	151
Changing the system menu	151
System menu parameters.....	152
Print Settings Menu	156
Changing the Print Settings Menu	156
Print Settings menu parameters.....	156
Security Options Menu.....	164
Changing the Security Options menu	164
Security Options menu parameters.....	164
Host Interface Menu.....	166
Changing the Host Interface menu	166
Host Interface menu parameters.....	167
Language Menu.....	172
Changing the language menu	172
Language menu parameters	172

6. Monitoring and Configuring the Printer

Using Web Image Monitor.....	173
Displaying Top Page	175
When user authentication is set	176
About Menu and Mode.....	177
Access in the Administrator Mode.....	178
Displaying Web Image Monitor Help.....	179
Using SmartDeviceMonitor for Admin.....	180
Installing SmartDeviceMonitor for Admin	181
Changing the Network Interface Board Configuration.....	182
Locking the Menus on the Printer's Control Panel	183
Changing the Paper Type	183
Managing User Information.....	184
Configuring the Energy Saver Mode	187
Setting a Password	187
Checking the Printer Status	188
Changing Names and Comments	189
Viewing and Deleting Spool Print Jobs	190
Using SmartDeviceMonitor for Client.....	191
Monitoring Printers	191
Checking the Printer Status	191
When Using IPP with SmartDeviceMonitor for Client	192
Printer Status Notification by E-Mail.....	193
Auto E-mail Notification	194
On-demand E-mail Notification	195
Mail authentication	195
Sending On-demand E-mail.....	196

Remote Maintenance by telnet	199
Using telnet	199
access	200
appletalk	201
autonet	201
bonjour(renderzvous)	202
btconfig	203
devicename	204
dhcp	204
diprint	205
dns	206
domainname	207
help	208
hostname	208
ifconfig	209
info	210
ipp	210
ipv6	211
lpr	211
netware	211
passwd	213
prnlog	213
route	213
set	215
show	217
slp	217
smb	218
snmp	219
sntp	222
spoolsw	222
ssdp	223
ssh	223
status	224
syslog	224
upnp	225
web	225
wiconfig	226
wins	229
SNMP	230
Getting Printer Information over the Network	231
Current Printer Status	231
Printer configuration	237
Understanding the Displayed Information	238
Print Job Information	238
Print Log Information	238
Configuring the Network Interface Board	239
Message List	246
System Log Information	246

7. Using a Printer Server

Preparing Printer Server	253
Printing notification via SmartDeviceMonitor for Client	253
Using NetWare	255
Setting Up as a Print Server (NetWare 3.x)	256
Setting Up as a Print Server (NetWare 4.x, 5/5.1, 6/6.5)	257
Using Pure IP in the NetWare 5/5.1 or 6/6.5 Environment.....	259
Setting Up as a Remote Printer (NetWare 3.x)	261
Setting Up as a Remote Printer (NetWare 4.x, 5/5.1, 6/6.5)	263

8. Special Operations under Windows

Printing Files Directly from Windows	267
Setup.....	267
Using a Host Name Instead of an IPv4 Address.....	268
Printing Commands.....	269

9. Mac OS Configuration

Mac OS.....	273
Installing the PostScript 3 Printer Driver and PPD File	273
Setting Up PPD Files	274
Creating a Desktop Printer Icon	274
Setting Up Options	275
Installing the ColorSync Profiles	275
Installing Adobe Type Manager	276
Installing Screen fonts	277
Changing to EtherTalk	277
Mac OS X	278
Installing the PPD Files	278
Setting Up the PPD File	278
Setting Up Options	279
Using USB Interface.....	279
Using Bonjour (Rendezvous)	280
Changing to EtherTalk	281
Configuring the Printer.....	282
Using PostScript 3	283
Job Type	283
User Code	293
Paper Size.....	293
Fit to Paper.....	294
Input Slot.....	294
Resolution	294
Orientation Override.....	295
Duplex Printing.....	295
Color Mode.....	296
Gradation	296
Color Profile	297
Color Setting	298
Toner Saving/Level Color.....	298
Collate.....	299
Paper Type.....	299
Black Over Print	299

Image Smoothing	300
Separate into CMYK	300
CMYK Simulation Profile	301
Dithering	301
Gray Reproduction	302
Color Matching	302
Printer Utility for Mac	303
Installing Printer Utility for Mac	303
Starting Printer Utility for Mac	304
Printer Utility for Mac Functions	305

10. Security Measures Provided by this Printer

Using Authentication and Managing Users	311
Preventing Information Leaks	312
Limiting and Controlling Access	313
Enhanced Network Security	314
Configuring SSL Encryption	315

11. Appendix

Software and Utilities Included on the CD-ROM	317
Printer Drivers for This Printer	318
SmartDeviceMonitor for Admin	319
DeskTopBinder - SmartDeviceMonitor for Client	320
Cautions to Take When Using in a network	322
Connecting a Dial-up Router to a Network	322
Using DHCP	323
Configuring the WINS Server	324
Using the Dynamic DNS Function	325
Installing Font Manager 2000	327
Using Adobe PageMaker Version 6.0, 6.5, or 7.0	328
When Using Windows Terminal Service/	
MetaFrame	329
Operating Environment	329
Supported Printer Drivers	329
Limitations	329
Cautions When Using Bluetooth Interface Unit	331
Copyright Information about Installed Applications	332
expat	332
JPEG LIBRARY	332
NetBSD	333
Samba(Ver 2.2.2-1.1)	335
RSA BSAFE®	335
INDEX	336

1. Preparing for Printing

Quick Install

Windows 95/98/Me/2000/XP, and Windows Server 2003, users can easily install this software using the CD-ROM provided.

Using Quick Install, the PCL printer driver and/or RPCS printer driver, Desk-TopBinder Lite and SmartDeviceMonitor for Client are installed under network environment, and the TCP/IP port will be set.

Important

- To install printer driver under Windows 2000/XP Professional, and Windows Server 2003, you must have an account that has Manage Printers permission. Log on as an Administrator.
- The Quick Install is not available when using this printer under USB connection.

1 **Quit all applications currently running.**

2 **Insert the CD-ROM into the CD-ROM drive.**

The installer starts.

3 **Select an interface language, and then click [OK].**

The default interface language is English.

4 **Click [Quick Install].**

The software license agreement appears in the **[License Agreement]** dialog box.

5 **After reading the agreement, click [I accept the agreement.], and then click [Next >].**

6 **Select the printer model you want to use in the **[Select Printer]** dialog box.**

For network connection via TCP/IP, select the printer whose IP address is displayed in **[Connect To]**.

For parallel connection, select the printer whose printer port is displayed in **[Connect To]**.

7 **Click [Install].**

The printer driver installation starts.

8 **Click [Finish].**

A message about restarting the computer may appear. Restart the computer to complete installation.

9 **Click [Exit] in the first dialog box of the installer, and then take out the CD-ROM.**

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- To stop installation of the selected software, click [**Cancel**] before installation is complete.
- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- Select a printer to whose IP address is displayed in [**Connect To**] to install SmartDeviceMonitor for Client when using TCP/IP.
- Download the printer driver from the supplier's web site when using under Windows NT 4.0.

 **Reference**

Quick Install is not available unless bidirectional communication between the printer and computer is enabled via parallel connection. See p.54 "If Bidirectional Communication is Disabled" for details about bidirectional communication between printer and computer.

If you connect using USB, see p.39 "Installing the Printer Driver Using USB".

Confirming the Connection Method

This printer supports network and local connection.

Before installing the printer driver, check how the printer is connected. Follow the driver installation procedure that is appropriate to the connection method.

1

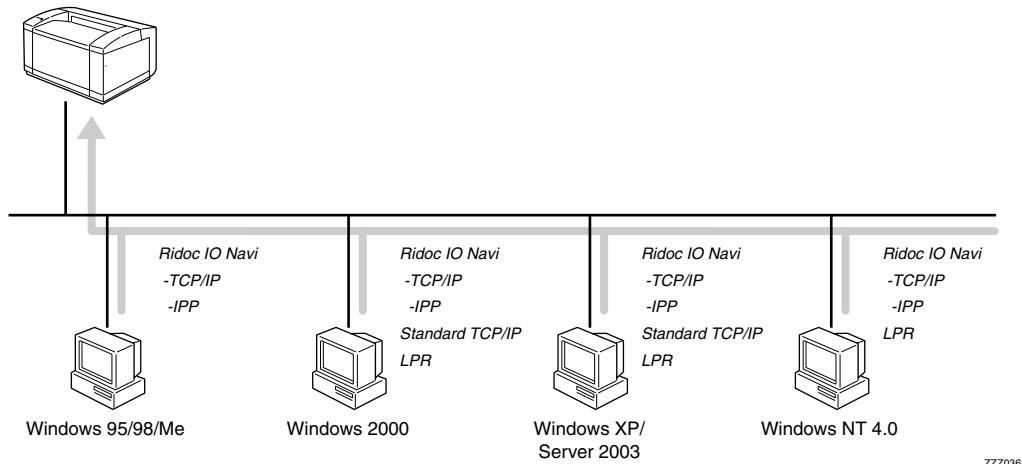
Network Connection

This printer can be used as a Windows printing port or network printer.

Using this printer as the Windows printing port

Network connections can be established through Ethernet and IEEE 802.11b.

Available ports are determined based on the combination of Windows operating system version and connection method used.



❖ Windows 95/98

Connection Method	Available Ports
Ethernet/IEEE 802.11b	SmartDeviceMonitor for Client port

❖ Windows Me

Connection Method	Available Ports
Ethernet/IEEE 802.11b	SmartDeviceMonitor for Client port

❖ Windows 2000

Connection Method	Available Ports
Ethernet/IEEE 802.11b	SmartDeviceMonitor for Client port Standard TCP/IP LPR port

❖ Windows XP

Connection Method	Available Ports
Ethernet/IEEE 802.11b	SmartDeviceMonitor for Client port Standard TCP/IP LPR port

❖ Windows Server 2003

Connection Method	Available Ports
Ethernet/IEEE 802.11b	SmartDeviceMonitor for Client port Standard TCP/IP LPR port

❖ Windows NT 4.0

Connection Method	Available Ports
Ethernet/IEEE 802.11b	SmartDeviceMonitor for Client port LPR port

🔍 Reference

See the explanation of how to install the printer driver for each type of port. For the SmartDeviceMonitor for Client port, see p.7 “Using the SmartDevice-Monitor Port”.

For the Standard TCP/IP port, see p.21 “Using the Standard TCP/IP Port”.

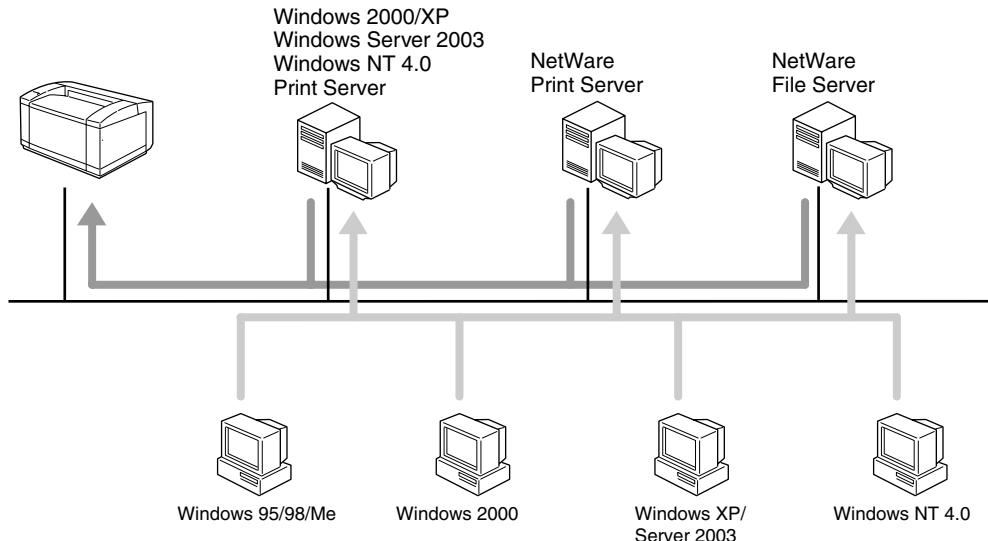
For the LPR port, see p.26 “Using the LPR Port”.

Using as a network printer

This printer can be used as the Windows network printer, the NetWare print server, or the NetWare remote printer.

Important

- In an IPv6 environment, Netware servers cannot be used.



ZZZ003S

Reference

See the explanation of how to install the printer driver for each type of network printer.

For the Windows network printer, see p.30 "Using as the Windows Network Printer".

For the NetWare print server and remote printer, see p.35 "Using as the NetWare Print Server/Remote Printer".

Local Connection

Local connections can be established via parallel, USB, and Bluetooth connections.

Windows operating system version determines the available connection methods.

- Windows 95:
 - Parallel connection
- Windows 98:
 - Parallel connection
- Windows 98 SE/Me:
 - USB, Parallel, and Bluetooth connections
- Windows 2000:
 - USB, Parallel, and Bluetooth connections
- Windows XP:
 - USB, Parallel, and Bluetooth connections
- Windows Server 2003:
 - USB, Parallel, and Bluetooth connections
- Windows NT 4.0:
 - Parallel connection

Reference

See the explanation of how to install the printer driver for each method of connection.

For the USB connection, see p.39 “Installing the Printer Driver Using USB”.

For the parallel connection, see p.44 “Printing with Parallel Connection”.

For the Bluetooth connection, see p.48 “Printing with Bluetooth Connection”.

Using the SmartDeviceMonitor Port

Installing DeskTopBinder-SmartDeviceMonitor for Client

1

Important

- To install SmartDeviceMonitor for Client under Windows 2000/XP Professional, Windows Server 2003, and Windows NT 4.0, you must have an account that has Manage Printers permission. Log on as an Administrator.
- Install SmartDeviceMonitor for Client before installing the printer driver when using the SmartDeviceMonitor for Client port.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [DeskTopBinder - SmartDeviceMonitor for Client].

5 Select an interface language, and then click [Next >].

The default interface language is English.

6 The message to quit all other applications appears. Quit all applications, and then click [Next >].

7 Click [Yes]

8 The DeskTopBinder Lite Setup dialog appears, and then click [Next >].

9 The software license agreement appears in the [License Agreement] dialog box. After reading through its contents, click [Yes].

10 Click [Full install] or [Custom Install].

[Full install] installs all required applications: DeskTopBinder Lite and SmartDeviceMonitor for Client.

[Custom Install] installs selected applications.

11 Follow the instructions on the display and click [Next >] to proceed next step.

12 After the installation is completed, select one of the options to restart the computer either now or later, and click [Complete].

Restart the computer to complete installation.

Note

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- To stop installation of the selected software, click [Cancel] before installation is complete.

Installing the PCL or RPCS Printer Driver (TCP/IP)

Important

□ To install this printer driver under Windows 2000/XP Professional, and Windows Server 2003, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PCL/RPCS Printer Drivers].

5 The software license agreement appears in the [License Agreement] dialog box.

After reading the agreement, click [I accept the agreement.], and then click [Next >].

6 Select the printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

7 Click [Next >].

8 Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

9 Double-click the printer name to display the printer settings.

The details shown in [Comment:], [Driver:], and [Port:] vary depending on the operating system, printer model, and port.

10 Click [Port:], and then click [Add].

11 Click [SmartDeviceMonitor], and then click [OK].

12 Click [TCP/IP], and then click [Search].

A list of printers using TCP/IP appears.

13 Select the printer you want to use, and then click [OK].

Only printers that respond to a broadcast from the computer appear. To use a printer not listed here, click [Specify Address], and then enter the IP address or host name of the printer.

14 Check that the port of the selected printer is displayed in [Port:].

15 Set a [User Code], if necessary.

Up to 8 numeric characters can be entered. No alphabetic characters or symbols are available.

16 Select the [Default Printer] check box to configure the printer as default.

17 Click [Continue].

Installation starts.

18 After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- Under Windows 95/98/Me, you cannot add an IPv4 address partially similar to the one already used. For example, if "192.168.0.2" is in use, "192.168.0.2xx" cannot be used. Similarly, if "192.168.0.20" is in use, "192.168.0.2" cannot be used.
- This allows a SmartDeviceMonitor for Admin user to display and check statistics about the number of sheets which each user prints. For details, see SmartDeviceMonitor for Admin Help.

 **Reference**

A message appears if there is a newer version of the printer driver already installed. If there is, you cannot install the printer driver using Auto Run. If you still want to install the printer driver, install using [Add Printer]. See p.51 "If a Message Appears during Installation".

Installing the PCL or RPCS Printer Driver (IPP)

 **Important**

- To install printer driver under Windows 2000/XP Professional, and Windows Server 2003, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PCL/RPCS Printer Drivers].

5 The software license agreement appears in the [License Agreement] dialog box.

After reading the agreement, click [I accept the agreement.], and then click [Next >].

6 Select a printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

7 Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

8 Double-click the printer name to display the printer settings.

The details shown in [Comment:], [Driver:], and [Port:] vary depending on the operating system, printer model, and port.

9 Click [Port:], and then click [Add].**10** Click [SmartDeviceMonitor], and then click [OK].**11** Click [IPP].**12** In the [Printer URL] box, enter "http://printer's address/printer" as the printer's address.

If the server authentication is issued, to enable SSL (a protocol for encrypted communication), enter "https://printer's address/printer" (Internet Explorer 5.01, or a higher version must be installed).

(example IPv4 address: 192.168.15.16)

http://192.168.15.16/printer
https://192.168.15.16/printer

You can enter "http://printer's address/ipp" as the printer's address.

If you are using Firefox or Netscape under Windows XP SP2 or Windows Server 2003, you can enter IPv6 address as "http:// IPv6 printer's address/printer".

13 Enter a name for identifying the printer in [IPP Port Name]. Use a name different from the one of any existing port.

If a name is not specified here, the address entered in the [Printer URL] box becomes the IPP port name.

14 Click [Detailed Settings] to make necessary settings.

For information about the settings, see SmartDeviceMonitor for Client Help.

15 Click [OK].**16** Check that the port of the selected printer is displayed in [Port:].**17** Set a [User Code], if necessary.

Up to 8 numeric characters can be entered. No alphabetic characters or symbols can be entered.

18 Select the [Default Printer] check box to configure the printer as default.**19** Click [Continue].

Installation starts.

20 After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- This allows a SmartDeviceMonitor for Admin user to display and check the number of sheets each user prints. For details, see SmartDeviceMonitor for Admin Help.
- To stop installation of the selected software, click [**Cancel**] before installation is complete.

 **Reference**

A message appears if there is a newer version of the printer driver already installed. If there is, you cannot install the printer driver using Auto Run. If you still want to install the printer driver, use [**Add Printer**]. See p.51 "If a Message Appears during Installation".

Installing the PostScript 3 Printer Driver (Windows 95/98/Me - TCP/IP)

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [**OK**].

The default interface language is English.

4 Click [**PostScript 3 Printer Driver**].

Add Printer Wizard starts.

5 Click [**Next >**].

6 Click [**Local Printer**], and then click [**Next >**].

A dialog box for selecting the printer manufacturer and model name appears.

7 Select the name of the printer whose driver you want to install, and then click [**Next >**].

8 In the [**Available ports:**] box, click [**Printer Port**], and then click [**Next >**].

9 Change the printer name if you want, and then click [**Next >**].

Select the [**Yes**] check box to configure the printer as default.

10 Specify whether or not to print a test page, and then click [**Finish**].

11 On the [**Start**] menu, point to [**Settings**], and then click [**Printers**].

The [**Printers**] window appears.

12 Click the icon of the printer you want to use. On the [**File**] menu, click [**Properties**].

13 On the [Details] tab, click [Add Port...].

14 Click [DeskTopBinder-SmartDeviceMonitor] in the [Other] list, and then click [OK].

15 Click [TCP/IP], and then click [Search].

A list of printers using TCP/IP appears.

16 Select the printer you want to use, and then click [OK].

Only printers that respond to a broadcast from the computer appear. To use a printer not listed here, click [Specify Address], and then enter the IPv4 address or host name of the printer.

You cannot add an IPv4 address partially similar to the one already used. For example, if "192.168.0.2" is in use, "192.168.0.2xx" cannot be used. Similarly, if "192.168.0.20" is in use, "192.168.0.2" cannot be used.

17 Click [OK].

18 Check that the selected port is highlighted in [Printer to the following port], and then click [OK].

19 Restart the computer to complete installation.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Installing the PostScript 3 Printer Driver (Windows 95/98/Me - IPP)

 **Important**

IPv6 cannot be used under Windows 95/98/Me.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].

6 Click [Local Printer], and then click [Next >].

A dialog box for selecting the printer manufacturer and model name appears.

- 7** Select the name of the printer whose driver you want to install, and then click [Next >].
- 8** In the [Available ports:] box, click [Printer Port], and then click [Next >].
- 9** Change the printer name if you want, and then click [Next >].
Select the [Yes] check box to configure the printer as default.
- 10** Specify whether or not to print a test page, and then click [Finish].
- 11** On the [Start] menu, point to [Settings], and then click [Printers].
The [Printers] window appears.
- 12** Click the icon of the printer you want to use. On the [File] menu, click [Properties].
- 13** On the [Details] tab, click [Add Port...].
- 14** Click [SmartDeviceMonitor] in the [Other] list, and then click [OK].
- 15** Click [IPP].
- 16** In the [Printer URL] box, enter “[http://\(printer's address\)/printer](http://(printer's address)/printer)” as the printer's address.
If the server authentication is issued, to enable SSL (a protocol for encrypted communication), enter “[https://\(printer's address\)/printer](https://(printer's address)/printer)” (Internet Explorer 5.01, or a higher version must be installed).
(example IPv4 address: 192.168.15.16)
http://192.168.15.16/printer
https://192.168.15.16/printer
You can enter “[http://\(printer's address\)/ipp](http://(printer's address)/ipp)” as the printer's address.
- 17** Enter a name for identifying the printer in [IPP Port Name]. Use a name different from the one of any existing port.
If a name is not specified here, the address entered in the [Printer URL] box becomes the IPP port name.
- 18** Click [Detailed Settings] to make necessary settings.
For information about the settings, see SmartDeviceMonitor for Client Help.
- 19** Click [OK].
- 20** Check that the selected port is highlighted in [Printer to the following port], and then click [OK].
- 21** Restart the computer to complete installation.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Installing the PostScript 3 Printer Driver (Windows 2000 - TCP/IP)

 **Important**

- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].

6 Click [Local printer], and then click [next >].

7 Click [Create a new port...].

8 Click [DeskTopBinder-SmartDeviceMonitor], and then click [Next >].

9 Click [TCP/IP], and then click [Search].

A list of printers using TCP/IP appears.

10 Select the printer you want to use, and then click [OK].

Only printers that respond to a broadcast from the computer appear. To use a printer not listed here, click [Specify Address], and then enter the IPv4 address or host name of the printer.

11 Check that the name of the printer whose driver you want to install is selected, and then click [Next >].

12 Change the printer name if you want, and then click [Next >].

Select the [Yes] check box to configure the printer as default.

13 Specify whether or not to share the printer, and then click [Next >].

14 Specify whether or not to print a test page, and then click [Next >].

15 Click [Finish].

The printer driver installation starts.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

1

Installing the PostScript 3 Printer Driver (Windows 2000 - IPP)

 **Important**

- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- IPv6 cannot be used under Windows 2000.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].

6 Click [Local printer attached to this computer], and then click [Next >].

7 Click [Create a new port:].

8 Click [DeskTopBinder-SmartDeviceMonitor], and then click [Next >].

9 Click [IPP].

10 In the [Printer URL] box, enter “`http://(printer's address)/printer`” as the printer's address.

If the server authentication is issued, to enable SSL (a protocol for encrypted communication), enter “`https://(printer's address)/printer`” (Internet Explorer 5.01, or a higher version must be installed).

(example IPv4 address: 192.168.15.16)

`http://192.168.15.16/printer`

`https://192.168.15.16/printer`

You can enter “`http://(printer's address)/ipp`” as the printer's address.

11 Enter a name for identifying the printer in [IPP Port Name]. Use a name different from the name of any existing port.

If a name is not specified here, the address entered in the [Printer URL] box becomes the IPP port name.

12 Click [Detailed Settings] to make necessary settings.

For information about the settings, see SmartDeviceMonitor for Client Help.

13 Click [OK].

14 Check that the name of the printer whose driver you want to install is selected, and then click [Next >].

15 Change the printer name if you want, and then click [Next >].

16 Click [Next >].

17 Specify whether or not to print a test page, and then click [Next >].

18 Click [Finish].

The printer driver installation starts.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch “`Setup.exe`” on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003 - TCP/IP)

1

Important

- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.

- 1 Quit all applications currently running.
- 2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

- 3 Select an interface language, and then click [OK].

The default interface language is English.

- 4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

- 5 Click [Next >].

- 6 Click [Local printer attached to this computer.], and then click [Next >].

- 7 Click [Create a new port:].

- 8 Click [DeskTopBinder-SmartDeviceMonitor], and then click [Next >].

- 9 Click [TCP/IP], and then click [Search].

A list of printers using [TCP/IP] appears.

- 10 Select the printer you want to use, and then click [OK].

Only printers that respond to a broadcast from the computer appear. To use a printer not listed here, click [Specify Address], and then enter the IPv4 address or host name of the printer.

- 11 Check that the name of the printer whose driver you want to install is selected, and then click [Next >].

- 12 Change the printer name if you want, and then click [Next >].

Select the [Yes] check box to configure the printer as default.

- 13 Specify whether or not to print a test page, and then click [Next >].

- 14 Click [Finish].

The printer driver installation starts.

Note

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003 - IPP)

1

Important

Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.

1 Quit all applications currently running.
2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].

6 Click [Local printer attached to this computer.], and then click [Next >].

7 Click [Create a new port:].

8 Click [DeskTopBinder-SmartDeviceMonitor], and then click [Next >].

9 Click [IPP].

10 In the [Printer URL] box, enter “[http://\(printer's address\)/printer](http://(printer's address)/printer)” as the printer's address.

If the server authentication is issued, to enable SSL (a protocol for encrypted communication), enter “[https://\(printer's address\)/printer](https://(printer's address)/printer)” (Internet Explorer 5.01, or a higher version must be installed).

(example IPv4 address: 192.168.15.16)

http://192.168.15.16/printer

https://192.168.15.16/printer

You can enter “[http://\(printer's address\)/ipp](http://(printer's address)/ipp)” as the printer's address.

If you are using Firefox or Netscape under Windows XP SP 2 or Windows Server 2003, you can enter IPv6 address as “<http://IPv6 printer's address/printer>”.

11 Enter a name for identifying the printer in [IPP Port Name]. Use a name different from the one of any existing port.

If a name is not specified here, the address entered in the [Printer URL] box becomes the IPP port name.

12 Click [Detailed Settings] to make necessary settings.

For information about the settings, see SmartDeviceMonitor for Client Help.

13 Click [OK].

14 Check that the name of the printer driver you want to install is selected, and then click [Next >].

15 Change the name of the printer if you want, and then click [Next >].
Select the [Yes] check box to configure the printer as default.

16 Specify whether or not to print a test page, and then click [Next >].

17 Click [Finish].

The printer driver installation starts.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Changing the Port Settings for SmartDeviceMonitor for Client

Follow the procedure below to change the SmartDeviceMonitor for Client settings, such as TCP/IP timeout, recovery/parallel printing, and printer groups.

Windows 95/98:

- 1** Open [Printers] window from [Start] menu.
- 2** In the [Printers] window, click the icon of the printer you want to use. On the [File] menu, click [Properties].
- 3** Click the [Details] tab, and then click [Configure Port].
The [Port Settings] dialog box appears.

Windows 2000/Windows NT 4.0:

- 1** Open [Printers] window from [Start] menu.
- 2** In the [Printers] window, click the icon of the printer you want to use. On the [File] menu, click [Properties].
- 3** On the [Ports] tab, click [Configure Port...].
The [Port Configuration] dialog box appears.

Windows XP, Windows Server 2003:

1 Open the [Printers and Faxes] window from the [Start] menu.

The [Printers and Faxes] window appears.

2 Click the icon of the printer you want to use. On the [File] menu, click [Properties]. The printer properties appear.

3 Click the [Ports] tab, and then click [Configure Port].

The [Port Configuration] dialog box appears.

 **Note**

- For TCP/IP, timeout setting can be configured.
- User, proxy, and timeout settings can be configured for IPP.
- If no settings on the [Recovery/Parallel Printing] tab are available, follow the procedure below.
 - ① Click [Cancel] to close the [Port Configuration:] dialog box.
 - ② Start SmartDeviceMonitor for Client, and then right-click the SmartDeviceMonitor for Client icon on the tasktray.
 - ③ Point to [Properties], and then click [Extended Features Settings].
 - ④ Select the [Set Recovery/Parallel Printing for each port] check box.
 - ⑤ Click [OK] to close the [Extended Features Settings] dialog box.

 **Reference**

For information about these settings, see SmartDeviceMonitor for Client Help.

Using the Standard TCP/IP Port

Installing the PCL or RPCS Printer Driver

1

Important

- To install printer driver under Windows 2000/XP Professional, and Windows Server 2003, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.
- In an IPv6 environment, you cannot use the Standard TCP/IP Port. Use the SmartDeviceMonitor port.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PCL/RPCS Printer Drivers].

5 The software license agreement appears in the [License Agreement] dialog box.
After reading the agreement, click [I accept the agreement.], and then click [Next].

6 Select a printer driver you want to use in the [Printer Program] dialog box.

You can select several printer drivers.

7 Click [Next >].

8 Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

9 Double-click the printer name to display the printer settings.

The details shown in [Comment:], [Driver:], and [Port:] vary depending on the operating system, printer model, and port.

10 Click [Port:], and then click [Add].

11 Click [Standard TCP/IP Port], and then click [OK].

Configure the Standard TCP/IP port settings, and then see Windows Help if [Standard TCP/IP Port] does not appear.

12 Click [Next >] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.

13 Enter the printer name or IPv4 address in the [Printer Name or IPv4 Address] box.

The [Port Name] text box automatically obtains a port name. Change this name if necessary.

When screen for Device selection appears, select “RICOH NetworkPrinter Driver C Model”.

14 Click [Next >].

15 Click [Finish] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.

The installation start dialog box reappears.

16 Check that the port of the selected printer is displayed in [Port:].

17 Configure the default printer as necessary.

18 Click [Continue].

The printer driver installation starts.

19 After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch “Setup.exe” on the CD-ROM root directory.
- To stop installation of the selected software, click [Cancel] before installation is complete.

 **Reference**

A message appears if there is a newer version of the printer driver already installed. If there is, you cannot install the printer driver using Auto Run. If you still want to install the printer driver, use [Add Printer]. See p.51 “If a Message Appears during Installation”.

Installing the PostScript 3 Printer Driver (Windows 2000)

 **Important**

- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- In an IPv6 environment, you cannot use the Standard TCP/IP Port. Use the SmartDeviceMonitor port.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].**6** Click [Local printer], and then click [Next >].**7** Click [Create a new port:].**8** Click [Standard TCP/IP Port], and then click [Next >].**9** Click [Next >] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.**10** Enter the printer name or IPv4 address in the [Printer Name or IPv4 Address] box, and then click [Next >].

When screen for Device selection appears, select “RICOH NetworkPrinter Driver C Model”.

11 Click [Finish] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.**12** Check that the name of the printer whose driver you want to install is selected, and then click [Next >].**13** Change the printer name if you want, and then click [Next >].

Select the [Yes] check box to configure the printer as default.

14 Click [Next >].**15** Specify whether or not to print a test page, and then click [Next >].**16** Click [Finish].

The printer driver installation starts.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch “Setup.exe” on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation . For information about User Code, see the printer driver Help.

Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003)

1

Important

- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- In an IPv6 environment, you cannot use the Standard TCP/IP Port. Use the SmartDeviceMonitor port.

1 Quit all applications currently running.**2** Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].**6** Click [Local printer attached to this printer], and then click [Next >].**7** Click [Create a new port:].**8** Click [Standard TCP/IP Port] in [Create a new Port], and then click [Next >].**9** Click [Next >] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.**10** Enter the printer name or IPv4 address in the [Printer Name or IPv4 Address] box.

The [Port Name] text box automatically obtains a port name. Change this name if necessary.

When screen for Device selection appears, select "RICOH NetworkPrinter Driver C Model".

11 Click [Next >].**12** Click [Finish] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.**13** Check that the name of the printer whose driver you want to install is selected, and then click [Next >].**14** Change the printer name if you want, and then click [Next >].

Select the [Yes] check box to configure the printer as default.

15 Specify whether or not to print a test page, and then click [Next >].

16 Click [Finish].

The printer driver installation starts.

Note

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Using the LPR Port

1

Installing the PCL or RPCS Printer Driver

Important

- To install this printer driver under Windows 2000/XP Professional, Windows Server 2003, and Windows NT 4.0, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.
- In an IPv6 environment, you cannot use the LPR Port. Use the SmartDevice-Monitor port.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PCL/RPCS Printer Drivers].

5 The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next].

6 Select a printer driver you want to use in the [Printer Program] dialog box.

You can select several printer drivers.

7 Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

8 Click [Next >].

9 Double-click the printer name to display the printer settings.

The details shown in [Comment:], [Driver:], and [Port:] vary depending on the operating system, printer model, and port.

10 Click [Port:], and then click [Add].

11 Click [LPR Port], and then click [OK].

If [LPR Port] does not appear, see Windows Help and install it.

12 Enter the printer's IPv4 address in the [Name or address of server providing lpd] box.

13 Enter "lp" in the [Name of printer or print queue on that server] box, and then click [OK].
The port is added.

14 Check that the port of the selected printer is displayed in [Port:].

15 Configure the default printer as necessary.

16 Click [Finish].

The printer driver installation starts.

17 After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- To stop installation of the selected software, click [Cancel] before installation is complete.

 **Reference**

A message appears if there is a newer version of the printer driver already installed. If there is, you cannot install the printer driver using Auto Run. If you still want to install the printer driver, use [Add Printer]. See p.51 "If a Message Appears during Installation".

Installing the PostScript 3 Printer Driver (Windows 2000)

 **Important**

- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- In an IPv6 environment, you cannot use the LPR Port. Use the SmartDevice-Monitor port.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].

6 Click [Local printer], and then click [Next >].

7 Click [Create a new port:].

- 8** Click [LPR Port], and then click [Next >].
- 9** Enter the printer's IPv4 address in the [Port Name] box, and then click [OK].
- 10** Check that the name of the printer whose driver you want to install is selected, and then click [Next >].
- 11** Change the printer name if you want, and then click [Next >].
Select the [Yes] check box to configure the printer as default.
- 12** Specify whether or not to share the printer, and then click [Next >].
- 13** Specify whether or not to print a test page, and then click [Next >].
- 14** Click [Finish].
The printer driver installation starts.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003)

 **Important**

- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- In an IPv6 environment, you cannot use the LPR Port. Use the SmartDevice-Monitor port.

- 1** Quit all applications currently running.
- 2** Insert the CD-ROM into the CD-ROM drive.
The installer starts.
- 3** Select an interface language, and then click [OK].
The default interface language is English.
- 4** Click [PostScript 3 Printer Driver].
Add Printer Wizard starts.
- 5** Select [My Computer], and then click [Next >].

- 6** Click [Local Printer attached to this computer.], and then click [Next >].
- 7** Click [Create a new port:].
- 8** Click [LPR Port] in [Create a new Port], and then click [Next >].
- 9** Enter the printer's IP address in the [Name or address of server providing lpd] box.
- 10** Enter "lp" in the [Name of printer or print queue on that server box], and then click [OK].
- 11** Check that the name of the printer whose driver you want to install is selected, and then click [Next >].
- 12** Change the printer name if you want, and then click [Next >].
Select the [Yes] check box to configure the printer as default.
- 13** Click [Next >].
- 14** Specify whether or not to print a test page, and then click [Next >].
- 15** Click [Finish].

The printer driver installation starts.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Using as the Windows Network Printer

1

Installing the PCL or RPCS Printer Driver

To use the print server, install the printer driver by selecting “Network printer server”, and then select the Windows 2000/XP, or Windows Server 2003 shared printer.

This section assumes that the client has already been configured to communicate with a Windows 2000/XP, or Windows Server 2003 print server. Do not begin the following procedure before the client is set up and configured correctly.

Important

- To install printer driver under Windows 2000/XP Professional, and Windows Server 2003, you must have an account that has Manage Printers permission. For this, log on as an Administrators or Power Users group member.
- If you print with a print server connected to the printer using the SmartDeviceMonitor port, Recovery Printing and Parallel Printing cannot be used from the client.
- If you print with a Windows XP or Windows Server 2003 print server, notification functions of SmartDeviceMonitor may not be used with the client.

1 **Quit all applications currently running.**

2 **Insert the CD-ROM into the CD-ROM drive.**

The installer starts.

3 **Select an interface language, and then click [OK].**

The default interface language is English.

4 **Click [PCL/RPCS Printer Drivers].**

5 **The software license agreement appears in the [License Agreement] dialog box.**

After reading the agreement, click [**I accept the agreement.**], and then click [**Next**].

6 **Select a printer driver you want to use in the [Printer Program] dialog box.**

You can select several printer drivers.

7 **Click [**Next >**].**

8 **Select the [Printer Name] check box to select the printer models you want to use.**

The printer name can be changed in the [**Change settings for 'Printer Name'**] box.

9 **Double-click the printer name to display the printer settings.**

The details shown in [**Comment:**], [**Driver:**], and [**Port:**] vary depending on the operating system, printer model, and port.

10 **Click [**Port:**], and then click [**Add**].**

- 11** Click [Network Printer], and then click [OK].
- 12** Double-click the computer name you want to use as a print server in the [Browse for Printer] window.
- 13** Select the printer you want to use, and then click [OK].
- 14** Check that the port of the selected printer is displayed in [Port:].
- 15** Configure the [User Code] as necessary.

For an RPCS printer driver, a User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

- 16** Select the [Default Printer] check box to configure the printer as default.
- 17** Click [Continue].

The printer driver installation starts.

- 18** After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.

Note

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- To stop installation of the selected software, click [Cancel] before installation is complete.

Reference

A message appears if there is a newer version of the printer driver already installed. If there is, you cannot install the printer driver using Auto Run. If you still want to install the printer driver, use [Add Printer]. See p.51 "If a Message Appears during Installation".

Installing the PostScript 3 Printer Driver (Windows 95/98/Me)

Important

- If you print from a print server connected to the printer using the SmartDevice-Monitor port, the client cannot use Recovery Printing and Parallel Printing.

- 1** Quit all applications currently running.
- 2** Insert the CD-ROM into the CD-ROM drive.
The installer starts.
- 3** Select an interface language, and then click [OK].
The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].

6 Click [Network Printer], and then click [Next >].

7 Click [Browse].

8 Double-click the computer name you want to use as a print server in the [Browse for Printer] window.

9 Select the printer you want to use, and then click [OK].

10 Check the location of the selected printer is shown, and then click [Next >].

11 Change the printer name if you want, and then click [Next >].

Select the [Yes] check box to configure the printer as default.

12 Specify whether or not to print a test page, and then click [Finish].

13 Restart the computer.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Installing the PostScript 3 Printer Driver (Windows 2000)

 **Important**

- Installing a printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- If you print from a print server connected to the printer using the SmartDevice-Monitor port, the client cannot use Recovery Printing and Parallel Printing.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].**6** Click [Network printer], and then click [Next >].**7** Select the location method from the [Locate Your Printer] screen, and then click [Next >].**8** Double-click the computer name you want to use as a print server in the [Shared printers:] window.**9** Select the printer you want to use, and then click [Next].**10** The printer driver installation starts.**11** Click [Next >].

Select the [Yes] check box to configure the printer as default.

12 Click [Finish].

Restart the computer to complete installation.

Note

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003)

Important

- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- If you print from a print server connected to the printer using the SmartDeviceMonitor port, the client cannot use Recovery Printing and Parallel Printing.
- If you print with a Windows XP or Windows Server 2003 print server, SmartDeviceMonitor notification functions may not be possible for the client.

1 Quit all applications currently running.**2** Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].

6 Click [A network printer, or a printer attached to another computer], and then click [Next >].

7 Select [Browse for a printer], then click [Next].

8 Double-click the computer name you want to use as a print server in the [Shared printers] window.

9 Select the printer you want to use, and then click [Next >].

10 The printer driver installation starts.

11 Click [Next >].

Select the [Yes] check box to configure the printer as default.

12 Click [Finish].

Restart the computer to complete installation.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Using as the NetWare Print Server/Remote Printer

This explains how to set up the Windows computer used as the NetWare client.

Important

- To install this printer driver under Windows 2000/XP Professional, Windows Server 2003, and Windows NT 4.0, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.
- In an IPv6 environment, Netware servers cannot be used.

The following explanation assumes NetWare Client is installed on the client computer and the NetWare server environment is correctly set up. Install all necessary client applications before following this procedure.

Set up the printer driver while logging on to the NetWare file server.

The following values are used in the example:

- Operating system: Windows 98
- NetWare version: 4.1
- File server name: CAREE
- Queue name: R-QUEUE

1 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

2 Select an interface language, and then click [OK].

The default interface language is English.

3 Click [PCL/RPCS Printer Drivers].

4 The software license agreement appears in the [License Agreement] dialog box.

After reading the agreement, click [I accept the agreement.], and then click [Next >].

5 Select the printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

6 Click [Next >].

7 Select the [Printer Name] check box to select the printer models you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

8 Double-click the printer name to display the printer settings.

The details shown in [Comment:], [Driver:], and [Port:] vary depending on the operating system, printer model, and port.

9 Click [Port:], and then click [Add].

10 Click [Network Printer], and then click [OK].

11 Double-click the name of the NetWare file server on the network tree.

The created queue is displayed.

12 Select the print queue, and then click [OK].

13 Check that the port of the selected printer is displayed in [Port:].

14 Click [Continue].

The printer driver installation starts.

15 Click [Finish] in the [Select Program] dialog box.

16 After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.

17 After restarting the computer, launch the [Printers] window, and then open the printer properties.

Under Windows XP or Windows Server 2003, open the printer properties from the [Printers and Faxes] window.

18 Click [Finish] in the [Introduction complete] dialog box.

19 In the [Printers] window, open the printer properties.

Under Windows XP or Windows Server 2003, open the printer properties from the [Printers and Faxes] window.

20 On the [Printer Settings] tab, clear the [Form Feed] and [Enable Banner] check boxes.

Under Windows 2000/XP, Windows Server 2003, or Windows NT 4.0, click the [NetWare setting] tab.

Do not select these check boxes since they are automatically selected by the printer driver. If you select the check boxes, the printer may not print correctly.

21 Click [OK] to close the printer properties dialog box.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- To stop installation of the selected software, click [Cancel] before installation is complete.
- The protocol is set to inactive as default. Enable it using Web Image Monitor or Telnet

When using the PostScript 3 Printer Driver

Follow the procedure below to set up the PostScript 3 printer driver.

Important

In an IPv6 environment, Netware servers cannot be used.

1 In the [Printers] or [Printers and Faxes] window, open the printer properties.

2 Click the [PostScript] tab.

When using Windows 2000/XP or Windows NT 4.0, click the [Device Settings] tab, and then proceed to step to clear the check box.

3 Click [Advanced].

4 Clear the [Send CTRL+D before job] and [Send CTRL+D after job] check boxes, and then click [OK].

5 Click [OK] to close the printer properties dialog box.

1

Form Feed

Do not use NetWare to configure form feed. Form feed is controlled by the printer driver on Windows. If NetWare form feed is configured, the printer may not print properly.

Follow the procedure below to disable form feed according to the operating system used:

- Under Windows 95/98/Me, clear the [Form feed] check box on the [Printer Settings] tab in the printer properties dialog box.
- Under Windows 2000/XP, Windows Server 2003, or Windows NT 4.0, clear the [Form feed] check box on the [NetWare Settings] tab in the printer properties dialog box.

Banner Page

Do not use NetWare to configure a banner page.

Follow the procedure below to disable banner pages according to the operating system used:

- Under Windows 95/98/Me, clear the [Enable banner] check box on the [Printer Settings] tab in the printer properties dialog box.
- Under Windows 2000/XP, Windows Server 2003, or Windows NT 4.0, clear the [Enable banner] check box on the [NetWare Settings] tab in the printer properties dialog box.

Printing after Resetting the Printer

Printer to print server connection requires 30 - 40 seconds to resume after the printer is reset. During this period, jobs may be accepted (depending on NetWare specifications) but not printed.

To print after resetting the printer as the remote printer, check on the print server that the remote printer is disconnected, or wait for two minutes before trying to print.

Installing the Printer Driver Using USB

This section explains how to install printer drivers using USB.

Before installing, check that only the operating system is running on the computer and no print jobs are in progress.

The printer drivers can be installed from the CD-ROM provided with this printer.

Windows Me - USB

Important

Installation via USB is not possible under Windows 95/98. Upgrade to Windows Me or later.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the "USB" port is added to the **[Printers]** window.

When USB is first used, the plug and play function starts and the **[New Hardware Found]**, **[Device Driver Wizard]**, or **[Add New Hardware Wizard]** dialog box appears, depending on the operating system.

1 Download USB Printing Support from the supplier's Web site.

Use a search to find the model name, and then download USB Printing Support from the supplier's Web site.

Save it where you can locate it easily.

2 Check that the power of the printer is off.

3 Connect the printer and computer using the USB cable.

Connect the USB cable firmly.

4 Turn on the power of the printer.

The plug and play function starts and the **[New Hardware Found]**, **[Device Driver Wizard]**, or **[Add New Hardware Wizard]** dialog box appears, depending on the operating system.

5 Select the **[Specify a location:]** check box, and then click **[Browse...]**.

The **[Browse for Folder]** dialog box appears.

6 Specify the location where USB Printing Support is located, and then click **[Next >]**.

7 Check the location, and then click **[Next >]**.

USB Printing Support is installed.

8 Click **[Finish]**.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the "USB001" port is added to the **[Printers]** window.

9 Insert the printer driver. Click [Search for the best driver for your device. [Recommended]], and then click [**Next >**].

10 Select the [Specify a location:] check box, and then click [**Browse...**].

The [**Browse for Folder**] dialog box appears.

11 Insert the CD-ROM into the CD-ROM drive.

When Auto Run starts, click [**Exit**].

12 Specify the location where USB Printing Support is located, and then click [**Next >**].

If the CD-ROM drive is D, the source files of USB Printing Support are stored in the following location:

- RPCS
D:\DRIVERS\RPCS\WIN9X_ME\Language\DISK1
- PCL 5c (for colour printing)
D:\DRIVERS\PCL5C\WIN9X_ME\Language\DISK1
- PCL 6
D:\DRIVERS\PCL6\WIN9X_ME\Language\DISK1
- PostScript 3
D:\DRIVERS\PS\WIN9X_ME\Language\DISK1

13 Check the location, and then click [**Next >**].

Add Printer Wizard starts.

14 Click [**Finish**].

Installation is complete. If installation is successful, the icon of the printer connected to the “USB001” port is added to the [**Printers**] window.

 **Note**

- The number after “USB” varies depending on the number of printers connected.
- It is not necessary to reinstall USB Printing Support when connecting a different printer via USB interface when USB Printing Support is installed.
- After installing USB Printing Support, if the printer driver is not installed, follow the plug-and-play instructions of the printer.
- Install the printer driver from the CD-ROM provided with the printer.

Windows 2000 - USB

Important

Installing a printer driver requires Administrators permission. Log on using an account that has Administrators permission.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the "USB" port is added to the [Printers] window. If the printer driver is not installed, follow the plug-and-play instructions of the printer to install it from the CD-ROM provided.

- 1** Check that the power of the printer is off.
- 2** Connect the printer and computer using the USB cable.
Connect the USB cable firmly.
- 3** Turn on the power of the printer.
Found New Hardware Wizard starts, and USB Printing Support is installed automatically.
- 4** In the Found New Hardware Wizard display, click [Search for a suitable driver for my device [recommended]], and then click [Next >].
- 5** Select the [Specify location] check box, and then click [Next >].
- 6** Insert the CD-ROM into the CD-ROM drive.
When Auto Run starts, click [Exit].
- 7** Specify the location where the source files of the printer driver is stored.
If the CD-ROM drive is D, the source files of the printer driver are stored in the following location:
 - RPCS
D:\DRIVES\RPCS\WIN2K_XP\Language\DISK1
 - PCL 5c
D:\DRIVES\PCL5c\WIN2K_XP\Language\DISK1
 - PCL 6
D:\DRIVES\PCL6\WIN2K_XP\Language\DISK1
 - PostScript 3
D:\DRIVES\PS3\WIN2K_XP\Language\DISK1
- 8** Check the printer driver location, and then click [OK].
- 9** Click [Next >].
- 10** Click [Finish].

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the "USB001" port is added to the [Printers] window.

Note

To disable Auto Run, press the left [**Shift**] key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.

The number after "USB" varies depending on the number of printers connected.

Windows XP, Windows Server 2003 - USB

1

Important

□ Installing a printer driver requires Administrators permission. Log on using an account that has Administrators permission.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the “USB” port is added to the [**Printers**] window.

The printer drivers can be installed from the CD-ROM provided with this printer.

If the printer driver is not installed, follow the plug-and-play instructions of the printer to install it from the CD-ROM provided.

1 Check that the power of the printer is off.

2 Connect the printer and computer using the USB cable.

Connect the USB cable firmly.

3 Turn on the power of the printer.

Found New Hardware Wizard starts, and USB Printing Support is installed automatically.

4 In the Found New Hardware Wizard display, click [**Search for a suitable driver for my device [recommended]**], and then click [**Next >**].

5 Insert the CD-ROM into the CD-ROM drive.

If Auto Run starts, click [**Cancel**], and then [**Exit**].

6 Select the [**Include this location in the search**] check box under [**Search for the best driver in these location**], and then click [**Browse**] to select the printer driver location.

If the CD-ROM drive is D, the source files of the printer driver are stored in the following location:

- RPCS
D:\DRIVES\RPCS\WIN2K_XP\Language\DISK1
- PCL 5c
D:\DRIVES\PCL5c\WIN2K_XP\Language\DISK1
- PCL 6
D:\DRIVES\PCL6\WIN2K_XP\Language\DISK1
- PostScript 3
D:\DRIVES\PS3\WIN2K_XP\Language\DISK1

7 Check the printer driver location, and then click [**Next >**].

8 Click [**Continue**].

9 Click [**Finish**].

If installation is successful, the icon of the printer connected to the “USB001” port is added to the [**Printers and Faxes**] window.

 **Note**

- To disable Auto Run, press the left **[Shift]** key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.
- The number after "USB" varies depending on the number of printers connected.

Troubleshooting USB

Problem	Solutions
The printer is not recognized automatically.	Turn off the power of the printer, reconnect the USB cable, and then turn it on again.
Windows has already configured the USB settings.	<p>Open Windows' Device Manager, and then, under [Universal Serial Bus controllers], remove any conflicting devices. Conflicting devices have a [!] or [?] icon by them. Take care not to accidentally remove required devices. For details, see Windows Help.</p> <p>When using Windows 2000/XP or Windows Server 2003, an erroneous device is displayed under [USB Controller] in the [Device Manager] dialog box.</p>
Windows ME and the printer cannot be connected.	<p>Download USB Printing Support from the supplier's website.</p> <p>Search the model name you use on the supplier's website, and download USB Printing Support.</p>

Printing with Parallel Connection

To use a printer connected using a parallel interface, click [LPT1] when installing the printer driver.

Installing the PCL or RPCS Printer Driver

Important

To install this printer driver under Windows 2000/XP Professional, Windows Server 2003, and Windows NT 4.0, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PCL/RPCS Printer Drivers].

5 The software license agreement appears in the [License Agreement] dialog box.

After reading the agreement, click [I accept the agreement.], and then click [Next >].

6 Select a printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

7 Click [Next >].

8 Select the [Printer Name] check box to select the printer models you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

9 Double-click the printer name to display the printer settings.

The details shown in [Comment:], [Driver:], and [Port:] vary depending on the operating system, printer model, and port.

10 Check that [LPT1:] is shown in [Port:].

11 Select the [Default Printer] check box to configure the printer as default.

12 Click [Finish].

The printer driver installation starts.

13 After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- To stop installation of the selected software, click [**Cancel**] before installation is complete.

 **Reference**

A message appears if there is a newer version of the printer driver already installed. If there is, you cannot install the printer driver using Auto Run. If you still want to install the printer driver, use [**Add Printer**]. See p.51 "If a Message Appears during Installation".

Installing the PostScript 3 Printer Driver (Windows 95/98/Me)

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [**OK**].

The default interface language is English.

4 Click [**PostScript 3 Printer Driver**].

Add Printer Wizard starts.

5 Click [**Next >**].

6 Click [**Local Printer**], and then click [**Next >**].

A dialog box for selecting the printer manufacturer and model name appears.

7 Select the name of the printer whose driver you want to install, and then click [**Next >**].

8 In the [**Available ports:**] box, click [**Printer Port**], and then click [**Next >**].

9 Change the printer name if you want, and then click [**Next**].

Select the [**Yes**] check box to configure the printer as default.

10 Specify whether or not to print a test page, and then click [**Finish**].

11 Restart the computer to complete installation.

 **Note**

- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.
- A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Installing the PostScript 3 Printer Driver (Windows 2000)

1

Important

Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].

6 Click [Local Printer], and then click [Next >].

A dialog box for selecting the printer manufacturer and model name appears.

7 Select [LPT1] at the [Printer Port] dialog box, and then click [Next >].

8 Select whether or not to share the printer, and then click [Next >].

9 Select the name of the printer whose driver you want to install, and then click [Next >].

10 Specify whether or not to print a test page, and then click [Finish].

The printer driver installation starts.

11 Restart the computer to complete installation.

Note

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.

A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Installing the PostScript 3 Printer Driver (Windows XP, Windows Server 2003)

Important

Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.

1 Quit all applications currently running.
2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

5 Click [Next >].

6 Click [Local printer attached to this computer], and then click [Next >].

7 Select the port you want to use, and then click [Next >].

A dialog box for selecting the printer manufacturer and model name appears.

8 Select the name of the printer whose driver you want to install, and then click [Next >].

9 Click [Close] to close the [Printer Port] dialog box.

10 Click [Next >].

11 Change the printer name if you want, and then click [Next >].

12 Specify whether or not to print a test page, and then click [Finish].

The printer driver installation starts.

13 Restart the computer to complete installation.

Note

Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Cestina, Magyar, Polski, Portugues, Suomi.

A User Code can be set after the printer driver installation. For information about User Code, see the printer driver Help.

Printing with Bluetooth Connection

Supported Profiles

❖ SPP, HCRP

- A maximum of two Bluetooth adaptor or Bluetooth-equipped computers can be connected at the same time using the Bluetooth interface: one by SPP, one by HCRP.
- When connecting more than one Bluetooth adaptor or Bluetooth-equipped computer at the same time, the first device that establishes connection is selected. When selecting the connection between the other devices, cancel the first established connection.
- Conditions for bidirectional communications
 - SPP connection does not support bidirectional communications.
 - HCRP connection supports bidirectional communications.

❖ BIP

- For BIP connection, a module including PostScript 3 must be installed in the printer.
- Only one Bluetooth adaptor or Bluetooth-equipped computer can be connected via BIP.
- Only JPEG images that can be printed using BIP.
- User Codes are disabled for BIP.
You cannot print if print functions are restricted.
- Some printers do not support BIP.

Note

In this manual, the instruction referred to print using SPP. To print using HCRP or BIP, see the Help supplied with the Bluetooth adapter you use.

Printing with Bluetooth Connection

To install the printer driver, follow the procedure used to install parallel interface.

Important

To install the printer driver under Windows 2000/XP Professional, Windows Server 2003, and Windows NT 4.0, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.

1 Start 3Com Bluetooth Connection Manager.

2 Check that the printer you want to use appears in 3Com Bluetooth Connection Manager.

3 On the [Tool] menu, click [COM port].

4 Check that the message “Bluetooth Serial Client (COMx) ” appears under Client Ports. (X indicates the COM port number used by Bluetooth.)

5 Click [Close].

6 On the [Start] menu, point to [Settings], and then click [Printers].
The [Printers] window appears.

7 Click the icon of the printer you want to use.

8 On the [File] menu, click [Properties].

9 Click the [Ports] tab.

10 Under [Port], select the [COMx:] check box. X indicates the COM port number used by Bluetooth.

11 Click [OK].

Close the [Printers] window.

 **Note**

- System requirements vary depending on the Bluetooth standard and specifications. For details, see the manuals provided with each product.
- For information about setting up Bluetooth under other operating systems or using it with different utilities, see the manuals provided with those operating systems or utilities.
- To always use the same printer, select the **[Always use for this connection]** check box.
- If a dialog box appears while transmitting a print job, reestablish network connection as follows:
 - ① Select the printer you want to use in the **[Printers and Faxes]** box.
 - ② Click **[Connect]**.

 **Reference**

For details, see the manuals provided with the Bluetooth adaptor or computer equipped with Bluetooth.

Configuring Security Mode Settings

This describes how to configure the security mode settings.

1 Start 3Com Bluetooth Connection Manager.

2 On the [Tools] menu, click [Security Mode].

The [Security Mode] dialog box appears.

3 Select the security mode in the [Security Mode:] list.

If you click [High], or [Custom], and specify [Link] in the [Custom Settings] dialog box, enter the Bluetooth password. For information about entering the password, see p.50 “Send the print job to the printer in use.”.

For all other security modes and custom settings, no password is required.

For information about each mode, see the manuals provided with the utility.

4 Click [OK].

Close the [Security Mode] dialog box.

Reference

For details about the security mode, see 3Com Bluetooth Connection Manager Help. For details about the password entry which is required to transmit print jobs, see p.50 “Printing in the Security Mode”.

Printing in the Security Mode

This describes how to print in the security mode.

1 Send the print job to the printer in use.

Depending on the computer configuration, the [Connect] dialog box may appear. If it does, use it to establish the network connection.

2 The [Authentication] dialog box appears.

3 Enter the Bluetooth password, and then click [OK].

As the Bluetooth password, enter the last four digits of the printer's serial number. You can find the serial number on the label on the back of the printer. For example, if the serial number is 00A0-001234, the Bluetooth password is 1234.

4 The print job is sent.

Note

The Bluetooth password differs for each printer and cannot be changed.

If a Message Appears during Installation

Message number 58 or 34 indicates the printer driver cannot be installed using Auto Run. Install the printer driver using **[Add Printer]** or **[Install Printer]**.

1

For Windows 95/98/Me, Windows 2000 and Windows NT 4.0:

- 1** On the **[Start]** menu, point to **[Settings]**, and then click **[Printers]**.
- 2** Double-click the Add Printer icon.
- 3** Follow the instructions in Add Printer Wizard.

 **Note**

If the printer driver is on a CD-ROM, the location of the RPCS printer driver is either `\DRIVERS\RPCS\WIN9X_ME`, or `\DRIVERS\RPCS\WIN2K_XP`. If the installer starts, click **[Cancel]** to quit.

For Windows XP Professional and Windows Server 2003:

- 1** On the **[Start]** menu, click **[Printers and Faxes]**.
- 2** Click **[Add a printer]**.
- 3** Follow the instructions in Add Printer Wizard.

 **Note**

If the printer driver is on a CD-ROM, the location of the RPCS printer driver is `\DRIVERS\RPCS\WIN2K_XP`. If the installer starts, click **[Cancel]** to quit.

For Windows XP Home Editions:

- 1** On the **[Start]** menu, click **[Control Panel]**.
- 2** Click **[Printers and Other Hardware]**.
- 3** Click **[Printers and Faxes]**.
- 4** Click **[Install Printer]**.
- 5** Follow the instructions in Add Printer Wizard.

 **Note**

If the printer driver is on a CD-ROM, the location of the RPCS printer driver is `\DRIVERS\RPCS\WIN2K_XP`. If the installer starts, click **[Cancel]** to quit.

Making Option Settings for the Printer

Make option settings for the printer using the printer driver when bidirectional communication is disabled.

Reference

For details about making option settings for the printer, see p.54 “If Bidirectional Communication is Disabled”.

Conditions for Bidirectional Communication

Bidirectional communication allows information about paper size and feed direction settings to be automatically sent to the printer. You can check printer status from your computer.

- Bidirectional communication is supported by Windows 95/98/Me/2000/XP, Windows Server 2003, and Windows NT 4.0.
- If you use the RPCS printer driver and bidirectional communication is enabled under Windows 2000, the **[Change Accessories...]** tab is unavailable.

Note

- The RPCS printer driver supports bidirectional communications and updates the printer status automatically.
- The PCL printer driver supports bidirectional communications. You can update printer status manually.
- The PostScript 3 printer driver does not support bidirectional communications. To support bidirectional communication, the following conditions must be met:

❖ When connected with parallel cables

- The computer must support bidirectional communication.
- The printer must support bidirectional communication.
- The interface cable must support bidirectional communication.
- The printer must be connected to the computer using the standard parallel cables and parallel connectors.
- Under Windows 2000, **[Enable bidirectional support]** must be selected, and **[Enable printer pooling]** must not be selected on the **[port]** tab with the RPCS printer driver.

❖ When connected with the network

- The printer must support bidirectional communication.
- SmartDeviceMonitor for Client included on the CD-ROM must be installed, and TCP/IP must be used.
- Under Windows 2000, **[Enable bidirectional support]** must be selected, and **[Enable printer pooling]** must not be selected on the **[port]** tab with the RPCS printer driver.
- In addition to the above, one of the following conditions must also be met:
 - The SmartDeviceMonitor for Client port and the TCP/IP protocol must be used.
 - The standard TCP/IP port must be used without changing the default port name (for Windows 2000/XP and Windows Server 2003).
 - Microsoft TCP/IP print IPv4 address must be specified for use (for Windows NT 4.0).
 - IPP port name must include the IPv4 address when using the IPP protocol.

❖ When connected with USB

The printer must be connected to the computer's USB port using the USB interface cable.

The computer must support bidirectional communication.

Note

- Install SmartDeviceMonitor for Client from the CD-ROM provided.

If Bidirectional Communication is Disabled

Set up option settings when bidirectional communications are disabled.

Important

- Under Windows 2000/XP and Windows Server 2003, Manage Printers permission is required to change the printer properties in the [Printers] folder. Log on as an Administrators or Power Users group member.
- Under Windows NT 4.0, Full Control permission is required to change the printer properties in the [Printers] folder. Log on as an Administrators or Power Users group member.

1 On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Properties].

4 Click the [Change Accessories] tab.

If options in the [Change Accessories] tab are disabled, bidirectional connection is enabled. In this case, no change is necessary for option settings.

If you are using the RPCS printer driver, click the [Change Accessories...] tab.

If you are using the PS printer driver, click the [Device Settings] tab.

5 Select options installed from the [Option] area, and then make the necessary settings.

6 Select the total amount of the memory in [Total Memory:], when the optional SDRAM module is added.

7 Under [Paper source tray settings], click and highlight the tray to be used, and then select the appropriate size, position, and type for the tray. Select the [Tray locking] check box to exclude the tray from the targets of automatic tray selection.

8 Click [OK] to close the printer properties dialog box.

2. Setting Up the Printer Driver

PCL - Accessing the Printer Properties

Windows 95/98/Me - Accessing the Printer Properties

There are two methods to open the printer properties dialog box.

Making Printer Default Settings

To make the printer default settings, open the printer properties dialog box from the [Printers] window.

Important

You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Properties].

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

Note

With some applications, the printer driver settings are not used, and the application's own default settings are applied.

Reference

For details about settings, 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 printer properties dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows 95/98/Me.

1 On the [File] menu, click [Print].

The [Print] dialog box appears.

2 Select the printer you want to use in the [Name] list, and then click [Properties].

The printer properties dialog box appears.

2

3 Make the necessary settings, and then click [OK].

4 Click [OK] to start printing.

 **Note**

- The procedure to open the printer properties dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- With some applications, the printer driver settings are not used, and the application's own default settings are applied.
- Any settings you make in the following procedure are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

 **Reference**

For details about settings, see the printer driver Help.

Windows 2000 - Accessing the Printer Properties

Making Printer Default Settings - The Printer Properties

 **Important**

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Properties].

The printer properties dialog box appears.

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

 **Note**

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

 **Reference**

For details about settings, see the printer driver Help.

Making Printer Default Settings - Printing Preferences

Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

2

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

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

Note

- Settings you make here are used as the default settings for all applications.

Reference

For details about settings, 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 explains how to make settings for the WordPad application provided with Windows 2000.

1 On the [File] menu, click [Print...].

The [Print] dialog box appears.

2 Select the printer you want to use in the [Select Printer] list.

3 Make the necessary settings, and then click [Apply] to start printing.

Note

- The procedure to open the [Printing Preferences] dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the following procedure are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

Reference

For details about settings, see the printer driver Help.

Windows XP, Windows Server 2003 - Accessing the Printer Properties

Making Printer Default Settings - The Printer Properties

Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, click [Printers and Faxes].

The [Printers and Faxes] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Properties].

The printer properties dialog box appears.

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

Note

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

Reference

For details about settings, see the printer driver Help.

Making Printer Default Settings - Printing Preferences

Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, click [Printers and Faxes].

The [Printers and Faxes] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

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

Note

- Settings you make here are used as the default settings for all applications.

Reference

For details about settings, 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 explains how to make settings for the WordPad application provided with Windows XP.

1 On the **[File]** menu, click **[Print...]**.

The **[Print]** dialog box appears.

2 Select the printer you want to use in the **[Select Printer]** list, and then click **[Preferences]**.

3 Make the necessary settings, and then click **[OK]** to start printing.

 **Note**

- The procedure to open the **[Printing Preferences]** dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the following procedure are valid for the current application only.
- General users can change the properties displayed in the **[Print]** dialog box of an application. Settings made here are used as defaults when printing from this application.

 **Reference**

For details about settings, see the printer driver Help.

Windows NT 4.0 - Accessing the Printer Properties

Making Printer Default Settings - The Printer Properties

 **Important**

- To change the printer default settings including option configuration settings, log on using an account that has Full Control permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the **[Start]** menu, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

2 Click the icon of the printer you want to use.

3 On the **[File]** menu, click **[Properties]**.

The printer properties dialog box appears.

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

 **Note**

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

 **Reference**

For details about settings, see the printer driver Help.

2

Making Printer Default Settings - Default

 **Important**

- To change the printer default settings including option configuration settings, log on using an account that has Full Control permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Document Defaults].

The [Default] dialog box appears.

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

 **Note**

- Settings you make here are used as the default settings for all applications.

 **Reference**

For details about settings, 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 printer properties dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows NT 4.0.

1 On the [File] menu, click [Print].

The [Print] dialog box appears.

2 Select the printer you want to use in the [Name] list, and then click [Properties].

The printer properties dialog box appears.

3 Make the necessary settings, and then click [OK].

4 Click [OK] to start printing.

 **Note**

- The procedure to open the printer properties dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- With some applications, the printer driver settings are not used, and the application's own default settings are applied.
- Any settings you make in the following procedure are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

 **Reference**

For details about settings, see the printer driver Help.

RPCS - Accessing the Printer Properties

Windows 95/98/Me - Accessing the Printer Properties

2

There are two dialog box types of the printer properties dialog box.

“Multi-tab” is used as an example in this manual. For details about changing the dialog box types, see the printer driver Help.

❖ Multi-tab

This dialog box type is designed for users who often change print settings to perform various printing operations.

❖ Custom Setting

This dialog box type is designed for users who rarely change print settings. This type of dialog box may vary depending on the installed options.

Making Printer Default Settings

To make the printer default settings, open the printer properties dialog box from the **[Printers]** window.

Important

You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the **[Start]** menu, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

2 Click the icon of the printer you want to use.

3 On the **[File]** menu, click **[Properties]**.

When you open the printer properties dialog box initially after installing the RPCS printer driver, a confirmation message appears. After clicking **[OK]**, the printer properties dialog box appears.

4 Make the necessary settings, and then click **[OK]**.

Note

With some applications, the printer driver settings are not used, and the application's own default settings are applied.

Reference

For details about settings, 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 printer properties dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows 95/98/Me.

1 **On the [File] menu, click [Print].**

The [Print] dialog box appears.

2 **Select the printer you want to use in the [Name] list, and then click [Properties].**

The printer properties dialog box appears.

3 **Make the necessary settings, and then click [OK].**

4 **Click [OK] to start printing.**

 **Note**

- The procedure to open the printer properties dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- With some applications, the printer driver settings are not used, and the application's own default settings are applied.
- Any settings you make in the following procedure are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

 **Reference**

For details about settings, see the printer driver Help.

Windows 2000 - Accessing the Printer Properties

This describes how to launch printer driver's properties.

Making Printer Default Settings - The Printer Properties

 **Important**

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

2

1 On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Properties].

The printer properties dialog box appears.

When you open the printer properties dialog box initially after installing the RPCS printer driver, a confirmation message appears. After clicking [OK], the printer properties dialog box appears.

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

 **Note**

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

 **Reference**

For details about settings, see the printer driver Help.

Making Printer Default Settings - Printing Preferences

 **Important**

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

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

 **Note**

- Settings you make here are used as the default settings for all applications.

 **Reference**

For details about settings, 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 explains how to make settings for the WordPad application provided with Windows 2000.

1 On the **[File]** menu, click **[Print...]**.

The **[Print]** dialog box appears.

2 Select the printer you want to use in the **[Select Printer]** list.

3 Make the necessary settings, and then click **[Apply]** to start printing.

 **Note**

- The procedure to open the **[Printing Preferences]** dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the following procedure are valid for the current application only.
- General users can change the properties displayed in the **[Print]** dialog box of an application. Settings made here are used as defaults when printing from this application.

 **Reference**

For details about settings, see the printer driver Help.

2

Windows XP, Windows Server 2003 - Accessing the Printer Properties

Making Printer Default Settings - The Printer Properties

 **Important**

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the **[Start]** menu, click **[Printers and Faxes]**.

The **[Printers and Faxes]** window appears.

2 Click the icon of the printer you want to use.

3 On the **[File]** menu, click **[Properties]**.

The printer properties dialog box appears.

When you open the printer properties dialog box initially after installing the RPCS printer driver, a confirmation message appears. After clicking **[OK]**, the printer properties dialog box appears.

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

 **Note**

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

 **Reference**

For details about settings, see the printer driver Help.

2

Making Printer Default Settings - Printing Preferences

 **Important**

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, click [Printers and Faxes].

The [Printers and Faxes] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

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

 **Note**

- Settings you make here are used as the default settings for all applications.

 **Reference**

For details about settings, 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 explains how to make settings for the WordPad application provided with Windows XP.

1 On the [File] menu, click [Print...].

The [Print] dialog box appears.

2 Select the printer you want to use in the [Select Printer] list.

3 Make the necessary settings, and then click [Apply] to start printing.

 **Note**

- The procedure to open the **[Printing Preferences]** dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the following procedure are valid for the current application only.
- General users can change the properties displayed in the **[Print]** dialog box of an application. Settings made here are used as defaults when printing from this application.

 **Reference**

For details about settings, see the printer driver Help.

Windows NT 4.0 - Accessing the Printer Properties

Making Printer Default Settings - The Printer Properties

 **Important**

- To change the printer default settings including option configuration settings, log on using an account that has Full Control permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the **[Start]** menu, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

2 Click the icon of the printer you want to use.

3 On the **[File]** menu, click **[Properties]**.

The printer properties dialog box appears.

When you open the printer properties dialog box initially after installing the RPCS printer driver, a confirmation message appears. After clicking **[OK]**, the printer properties dialog box appears.

4 Make the necessary settings, and then click **[OK]**.

 **Note**

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for **[Form to Tray Assignment]**.

 **Reference**

For details about settings, see the printer driver Help.

Making Printer Default Settings - Default

Important

- To change the printer default settings including option configuration settings, log on using an account that has Full Control permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

2

1 On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Document Defaults...].

The [Default] dialog box appears.

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

Note

- Settings you make here are used as the default settings for all applications.

Reference

For details about settings, 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 printer properties dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows NT 4.0.

1 On the [File] menu, click [Print].

The [Print] dialog box appears.

2 Select the printer you want to use in the [Name] list, and then click [Properties].

The printer properties dialog box appears.

3 Make the necessary settings, and then click [Apply].

4 Click [OK] to start printing.

 **Note**

- The procedure to open the printer properties dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- With some applications, the printer driver settings are not used, and the application's own default settings are applied.
- Any settings you make in the following procedure are valid for the current application only.
- General users can change the properties displayed in the **[Print]** dialog box of an application. Settings made here are used as defaults when printing from this application.

 **Reference**

For details about settings, see the printer driver Help.

PostScript 3 - Setting Up for Printing

Windows 95/98/Me - Accessing the Printer Properties

There are two methods to open the printer properties dialog box.

2

Making Printer Default Settings

To make the printer default settings, open the printer properties dialog box from the **[Printers]** window.

Important

You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the **[Start]** menu, point to **[Settings]**, and then click **[Printers]**.
The **[Printers]** window appears.

2 Click the icon of the printer you want to use.

3 On the **[File]** menu, click **[Properties]**.

The printer properties dialog box appears.

4 Make the necessary settings, and then click **[OK]**.

5 Click **[OK]**.

Note

With some applications, the printer driver settings are not used, and the application's own default settings are applied.

Reference

For details about settings, 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 printer properties dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows 95/98/Me.

1 On the **[File]** menu, click **[Print]**.

The **[Print]** dialog box appears.

2 Select the printer you want to use in the **[Name]** list, and then click **[Properties]**.

The printer properties dialog box appears.

3 Make the necessary settings, and then click **[OK]**.

4 Click [OK] to start printing.

Note

- The procedure to open the printer properties dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- With some applications, the printer driver settings are not used, and the application's own default settings are applied.
- Any settings you make in the following procedure are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

Reference

For details about settings, see the printer driver Help.

2

Windows 2000 - Accessing the Printer Properties

Making Printer Default Settings - The Printer Properties

Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Properties].

The printer properties dialog box appears.

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

Note

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

Reference

For details about settings, see the printer driver Help.

Making Printer Default Settings - Printing Preferences

Important

You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, point to [Settings], and then click [Printers].

2

The [Printers] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

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

Note

Settings you make here are used as the default settings for all applications.

Reference

For details about settings, 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 explains how to make settings for the WordPad application provided with Windows 2000.

1 On the [File] menu, click [Print...].

The [Print] dialog box appears.

2 Select the printer you want to use in the [Select Printer] list.

3 Make the necessary settings, and then click [Print] to start printing.

Note

The procedure to open the [Printing Preferences] dialog box may vary depending on the application. For details, see the manuals provided with the application you use.

Any settings you make in the following procedure are valid for the current application only.

General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

Reference

For details about settings, see the printer driver Help.

Windows XP, Windows Server 2003 - Accessing the Printer Properties

Making Printer Default Settings - The Printer Properties

Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, click [Printers and Faxes].

The [Printers and Faxes] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Properties].

The printer properties dialog box appears.

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

Note

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

Reference

For details about settings, see the printer driver Help.

Making Printer Default Settings - Printing Preferences

Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, click [Printers and Faxes].

The [Printers and Faxes] window appears.

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

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

Note

- Settings you make here are used as the default settings for all applications.

Reference

For details about settings, 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 explains how to make settings for the WordPad application provided with Windows XP.

2

1 On the **[File]** menu, click **[Print...]**.

The **[Print]** dialog box appears.

2 Select the printer you want to use in the **[Select Printer]** list.

3 Make the necessary settings, and then click **[Print]** to start printing.

 **Note**

- The procedure to open the **[Printing Preferences]** dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the following procedure are valid for the current application only.
- General users can change the properties displayed in the **[Print]** dialog box of an application. Settings made here are used as defaults when printing from this application.

 **Reference**

For details about settings, see the printer driver Help.

Windows NT 4.0 - Accessing the Printer Properties

Making Printer Default Settings - The Printer Properties

 **Important**

- To change the printer default settings including option configuration settings, log on using an account that has Full Control permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the **[Start]** menu, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

2 Click the icon of the printer you want to use.

3 On the **[File]** menu, click **[Properties]**.

The printer properties dialog box appears.

4 Make the necessary settings, and then click **[OK]**.

 **Note**

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for **[Form to Tray Assignment]**.

 **Reference**

For details about settings, see the printer driver Help.

Making Printer Default Settings - Default

2

 **Important**

- To change the printer default settings including option configuration settings, log on using an account that has Full Control permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

1 On the [Start] menu, point to [Settings], and then click [Printers].

The **[Printers]** window appears.

2 Click the icon of the printer you want to use.**3 On the [File] menu, click [Document Defaults...].**

The **[Default]** dialog box appears.

4 Make the necessary settings, and then click [OK]. **Note**

- Settings you make here are used as the default settings for all applications.

 **Reference**

For details about settings, 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 printer properties dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows NT 4.0.

1 On the [File] menu, click [Print].

The **[Print]** dialog box appears.

2 Select the printer you want to use in the [Name:] list, and then click [Properties].

The printer properties dialog box appears.

3 Make the necessary settings, and then click [OK].

4 Click [OK] to start printing.

 **Note**

- The procedure to open the printer properties dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- With some applications, the printer driver settings are not used, and the application's own default settings are applied.
- Any settings you make in the following procedure are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

 **Reference**

For details about settings, see the printer driver Help.

Mac OS - Setting Up for Printing

Making Paper Settings from an Application

1 Open the file you want to print.

2 On the [File] menu, click [Page Setup].

3 Check that the printer you want to use is displayed in [Printer:], and then select the paper size you want to use in [Paper:].

Under Mac OS X, select the paper size in [Paper Size].

If the printer you want to use is not displayed in [Printer:], select the printer you want to use.

4 Configure the settings, and then click [OK].

 **Reference**

The [Page Setup] dialog box varies depending on the application you use. For details, see the manuals provided with the Mac OS.

Setting up for Printing from an Application

1 Open the file you want to print.

2 On the [File] menu, click [Print].

3 Check that the printer is selected in the [Printer] list, and then make the printer settings.

4 Configure the settings, and then click [OK].

3. Other Print Operations

Printing a PDF File Directly

You can send PDF files directly to this printer for printing, without having to open a PDF application.

Important

- This function is possible for genuine Adobe PDF files only.
- Version 1.3, 1.4, 1.5, and 1.6 PDF files are compatible.
- Transparency (function of PDF version 1.4) may not be printed.
- Crypt Filter and 16bit colour image (functions of PDF version 1.5) are not compatible.
- PDF version 1.6 exclusive functions are not compatible.
- Some types of High Compression PDF files may not be printed. Consult your sales representative about the supported file types.

Note

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

Printing Method

The following procedures explain the two methods of direct PDF printing - using DeskTopBinder Lite or by entering commands.

Using DeskTopBinder Lite

Installing DeskTopBinder Lite

Follow the procedure below to install DeskTopBinder Lite.

- 1** Quit all applications currently running.
- 2** Insert the CD-ROM into the CD-ROM drive.
The installer starts.
- 3** Select an interface language, and then click [OK].
- 4** Click [DeskTopBinder - SmartDeviceMonitor for Client], and then click [Next >].
- 5** Follow the instructions on the display to install DeskTopBinder Lite.

If you are required to restart the computer after installing DeskTopBinder Lite, restart the computer and continue the configuration.

Note

- Auto Run may not work under certain operating system settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

DeskTopBinder Lite Enhancements

Follow the DeskTopBinder Lite enhancement procedure to print PDF files directly.

- 1** On the [Start] menu, click [Programs], [DeskTopBinder Lite], and [Extended Features Wizard].
- 2** When [Extended Features Wizard] appears, select [Start], and then click [Next >] repeatedly until the [Printing Function3] screen appears.
- 3** On the [Printing Function3] screen, click [Add...] to display [PDF Direct Print Properties].
- 4** Select the driver for this printer, click [OK], and then click [Next >] repeatedly until [Finish] is displayed.
Click [Finish].

Function Palette

The Function palette contains buttons for functions that are already configured through DeskTopBinder Lite enhancement. Using these buttons, you can print Windows files, preview printouts, convert images, and register scanners for documents without having to open DeskTopBinder Lite. 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** Right-click the icon that is added to the task bar, and then click [Properties..] to display the Properties screen.
- 2** 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

Use the method below to print PDF files directly.

- 1** Drag the PDF file you want to print to the PDF Direct Printing icon in the palette and drop it there.
- 2** [Output File List- PDF Direct Print] is displayed.

Highlight the PDF you want to print, and then click [OK].

The PDF file is printed.

Printing PDF Password-Protected Documents

Follow the procedure below to print password-protected PDF files.

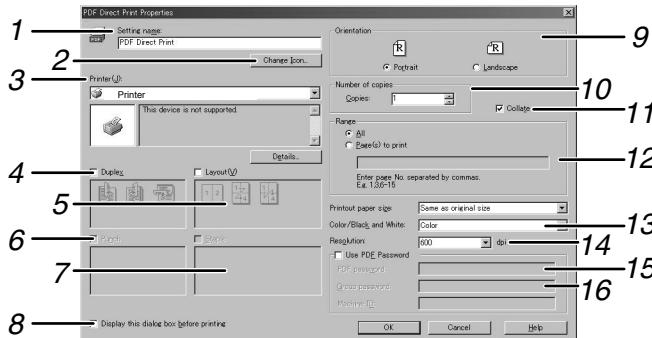
- 1** In the Windows [Start] menu, click [Programs], [DeskTopBinder], and [Extended Features Wizard].
- 2** When [Extended Features Wizard] appears, select [Start], and then click [Next >] repeatedly until the [Printing Function3] screen appears.
- 3** On the [Printing Function3] screen, click [Properties...] to display [PDF Direct Print Properties].
- 4** Select the [Use PDF Password] check box at the bottom right of the screen, and then click [OK].
Click [Next] repeatedly until [Finish] appears.
Click [Finish] to close the [Extended Features Wizard] screen.
- 5** Move the PDF file you want to print to the PDF Direct Printing icon on the palette using a drag-and-drop operation.
- 6** [Output File List-PDF Direct Print] is displayed.
Select the PDF file you want to output to make it reverse video, and then click [OK].
- 7** The [PDF Direct Print Properties] screen opens.

Enter the password for the PDF file you want to print in the [PDF password:] field at the bottom right of the screen, and then click [OK].

The password-protected PDF file is printed.

Important

- Before printing a password-protected PDF file, perform one of the following:
 - Enter the PDF password in the PDF Direct Printing Properties screen
 - Specify a PDF password by selecting [Change PDF Password] in the [PDF Menu] menu on the control panel of this printer
- If a [PDF Group Password] for the [PDF Menu] menu is assigned to either DeskTopBinder Lite or the control panel of this printer, a same group password needs to be assigned to the other.

PDF Direct Print Properties

AQC805S

1. Setting name:

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

2. Change Icon...

Change the icon displayed on the tool bar.

3. Printer:

Displays a list of RPCS drivers that support PDF direct printing.

4. Duplex

Print on both sides of sheets.

5. Layout

Print multiple pages on a single sheet.

6. Punch

Punch holes in output sheets.

You cannot select this function on this printer.

7. Staples

Staple together output sheets.

You cannot select this function on this printer.

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

Use to sort prints.

12. Range

Specify the print area on each page.

13. Color/Black and White:

Specify color or black-and-white printing.

14. Resolution:

Specify a print resolution.

15. PDF password:

If the PDF file is password-protected, enter the password in this field. Otherwise, the file cannot be printed.

16. Group password:

If a group password is assigned to Desk-TopBinder Lite and this printer, enter the group password in this field. Otherwise, printing cannot start.

Using Commands

Under Windows and UNIX, you can print PDF files directly, using commands such as "ftp" "sftp" and "lpr".

Reference

For details about printing using commands under Windows, see p.267 "Printing Files Directly from Windows".

For details about UNIX commands, see UNIX Supplement.

Unauthorized Copy Control

You can embed patterns and text under printed text to prevent unauthorized copying of the document. Unauthorized Copy Control consists of two functions: **[Data security for copying]** and **[Mask type:]**.

Important

- This function is designed to discourage copying of confidential documents; it does not prevent unauthorized use of information.

Opening the Unauthorized Copy Control Window

3

- In the RPCS printer driver, open the **[Printing Preference...]** window.
- Click **[Add/Change Custom Settings...]**.
- Select the **[Unauthorized copy...]** check box.
- Click **[Control Settings...]**.
- A confirmation message appears. Click **[OK]**.

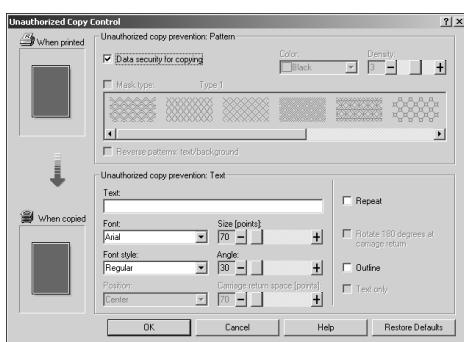
The Unauthorized Copy Control window appears.

Note

- For details, see the printer driver Help.

Using **[Data security for copying]**

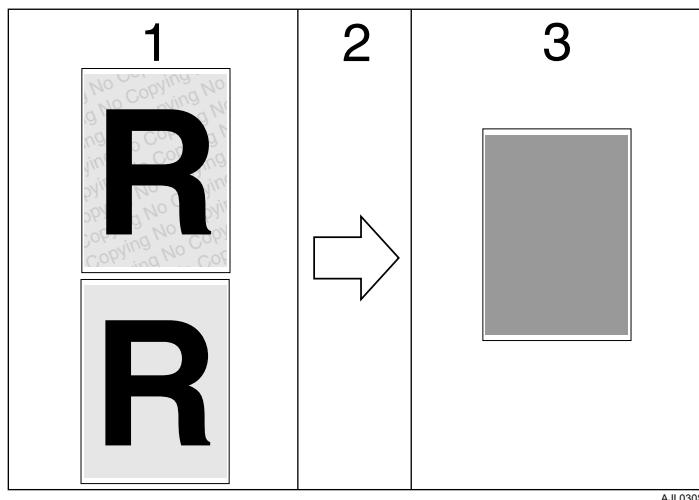
You can embed a pattern by setting it in the printer driver.



❖ Setting **[Data security for copying]** in the printer driver

- Select the **[Data security for copying]** checkbox. You can also enter the text in the **[Text:]** box.
- You cannot select the **[Mask type:]** checkbox at the same time.
- To print a document protected by gray overprint, the printer must be set up correctly. Consult an administrator.

❖ **Printing a document using [Data security for copying]**



1. The pattern and text you have set is printed.
2. The document is copied in copiers/multifunction machines which the supplier's optional Copy Data Security unit is installed.
3. The document is blanked by gray overprint.

 **Note**

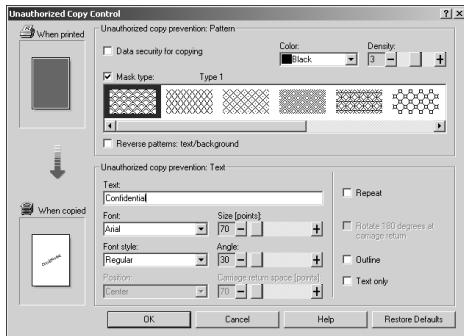
- When printing a document that is set with **[Data security for copying]**, the printer does not require the optional Copy Data Security unit to be installed. The Copy Data Security unit is required when copying or storing a document protected by gray overprint.
- Only the RPCS printer driver is supported.
- You cannot partially embed a pattern and text in a document.
- Use 182 × 257 mm (7¹/₄ × 10¹/₂ in.) or larger paper.
- Use ordinary or recycled paper of at least 70% whiteness.
- Duplex printing may interfere with this function as a result of text and patterns being visible through the paper.
- The optional Copy Data Security Unit is for the supplier's copiers/multifunction machines. It cannot be installed on this printer.

 **Reference**

For details about setting **[Data security for copying]**, see the printer driver Help.

Using [Mask type]:

You can embed patterns and text in a document by setting in the printer driver to prevent unauthorized copying.



3

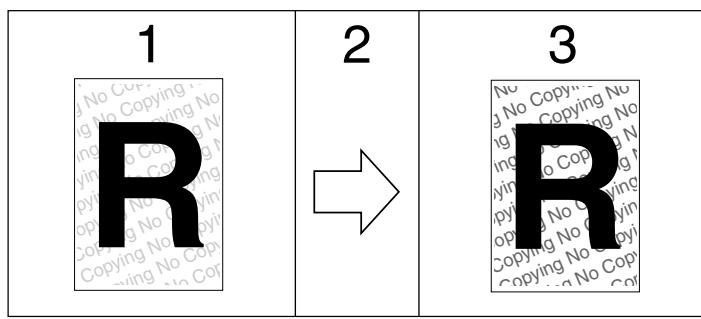
❖ Setting [Mask type:] in the printer driver

- Select a pattern from [Mask type:], and then enter text in the [Text:] box.
- You can select overprint colour from [Black], [Cyan], or [Magenta] in the [Color:] list.

Note

- You can set only [Text:], but [Mask type:] and [Text:] must be set together.

❖ Printing a document using [Mask type:]



1. The pattern and text you have set is printed palely.

2. The document is copied in copiers/multifunction machines.

Note

- Only the RPCS printer driver is supported.
- You cannot partially embed patterns and text strings in a document.
- To make the embedded pattern clear, set the character size at least 50 pt (preferably 70 to 80 pt) and character angle to between 30 and 40 degrees.
- Printing with background patterns and text may be slower than normal printing.

 **Reference**

For details about setting **[Mask type:]**, see the printer driver Help.

Important Notice

- The supplier does not provide warranty regarding the appearance of print patterns and other copy protection features. The appearance of the print patterns and the performance of Unauthorized Copy Control may vary depending on the quality of paper used and the printer model and settings.
- The supplier takes no responsibility for any damages sustained in connection with use of or inability to make use of Unauthorized Copy Control print patterns.

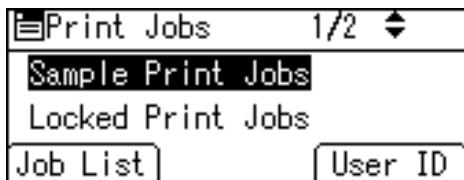
Using the Print Job Function

This describes how to print files stored in the printer.

Print files stored in the printer can be printed. You can select the print files from the Job List or User ID screen.

You can print or delete the print jobs saved in the printer which is sent from computers.

The following types of printing can be selected using the printer driver: Sample Print, Locked Print, Hold Print, and Stored Print.



3

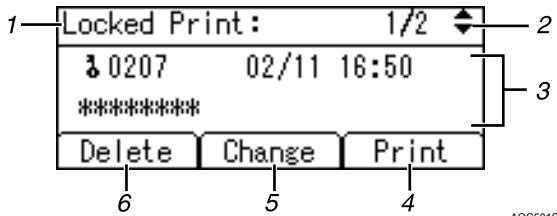
If you press **[Prt.Jobs]** on the Printer screen, a screen prompting to select the type of print job appears. After selecting a type, you can select print files in the list by pressing:

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

If you select Sample Print, Locked Print, and 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.

❖ Job List

If you press **[Job List]** when selecting the type of print jobs after **[Prt.Jobs]** is pressed in the printer screen, the following screen appears:



AQC501S

3

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

Displays the time when the instruction to print the stored files was entered, User ID, and the file names. Locked Print file is displayed as "****".

4. [Print]

Prints a selected file.

Note

- 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 Stored Print files are saved in the printer.

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, press **[Change]**, leave the entering/confirming a new password box blank, and then press the **[OK]** key.

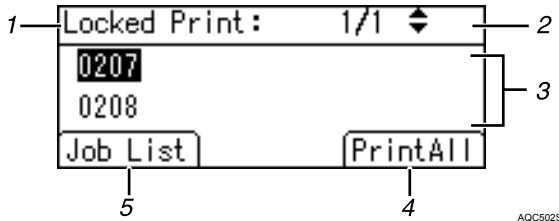
You can also set passwords to the Stored Print files that do not currently have passwords.

6. [Delete]

Deletes a selected file.

❖ User ID

If you press **[User ID]** when selecting the type of print jobs after **[Prt.Jobs]** is pressed in the printer screen, the following screen appears:



3

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

Displays the User IDs who sent files to the printer.

>Note

- To cancel selecting a file, press the **[Job Reset]** 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]** 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.

Reference

For details about printing each type of print job, see the followings:

p.89 "Sample Print"

p.92 "Locked Print"

p.95 "Hold Print"

p.98 "Stored Print"

4. [PrintAll]

Prints all selected type of files sent by the user ID.

5. [Job List]

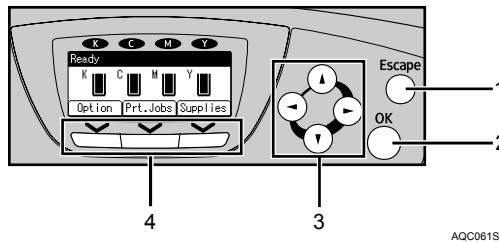
Switches the screen to the **[Job List]** screen.

Displays the print jobs of the selected user only.

Using Keys

This section explains how to read the display and using the selection key for the initial display.

3



1. [Escape] key

Press to cancel an operation or return to the previous display.

2. [OK] key

Press to set a selected item or entered numeric value.

3. Scroll keys

Press to move the cursor in each direction, step by step.

When the **[▲]**, **[▼]**, **[▶]**, or **[◀]** key appears in this manual, press the scroll key of the same direction.

4. Selection keys

Correspond to the function items at the bottom line on the display.

Example: In the initial screen, when the instruction "press **[Option]**" appears in this manual, press the left selection key.

Printing from the Print Job Screen

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

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

- To use this function, the optional hard disk must be installed on the printer.
- A Sample Print file cannot be stored if:
 - 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.

Note

- If a Sample Print file has not been stored properly, check the error log on 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 Jobs]** 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.

Reference

For details about the error log on the display panel, see p.110 "Checking the Error Log".

For details about the **[Auto Delete Temporary Jobs]** and **[Auto Delete Stored Jobs]**, see p.145 "HD Management".

Printing a Sample Print File

The following procedure describes how to print a Sample Print file with the PCL 6/5c, RPCS and PostScript 3 printer driver.

Important

- Applications with their own drivers, such as PageMaker, do not support this function.

3

1 From an application, select a command to print.

The [Print] dialog box appears.

2 Select the printer you want to use in the [Name] list, and then click [Properties].

The printer properties dialog box appears.

3 In the [Job type:] box, click [Sample Print].

When printing with the PostScript 3 printer driver, click [Sample Print] in the [Job type:] box on the [Job Log] tab.

4 In the [User ID:] box, enter a user ID using up to eight alphanumeric characters.

This is used to identify the user. The user ID can be entered using up to eight alphanumeric (a-z, A-Z, 0-9) characters.

5 Execute a command to print.

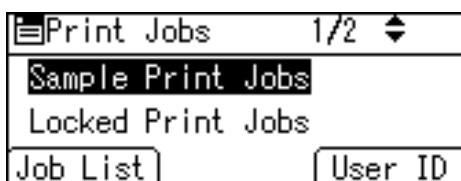
Make sure to set more than two copies.

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

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



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

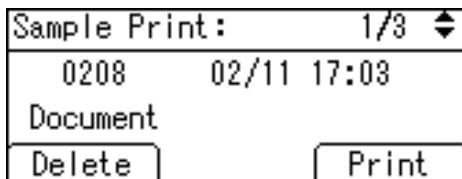


A list of Sample Print files stored in the printer appears.

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

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

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



Enter the new number of sets using the scroll keys. You can enter up to 999 sets. Press the [Escape] key to correct any entry mistakes.

9 Press [Print].

The remaining sets are printed.

Press [Cancel] to cancel printing.

 **Note**

- When the number of set quantity is changed, 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.

 **Reference**

For details about [User ID], see p.103 "Printing from the User ID Screen".

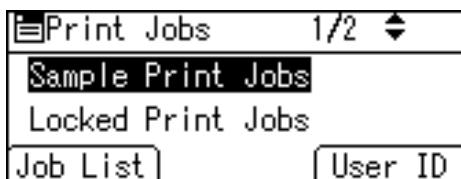
Deleting Sample Print Files

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].



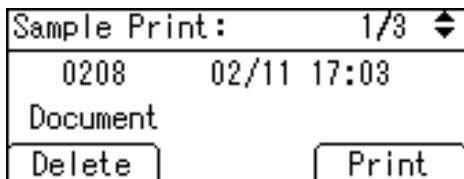
2 Select [Sample Print Jobs] using the [▲] or [▼] key, and then press [Job List].



A list of Sample Print files stored in the printer appears.

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].



The delete confirmation screen will appear.

4 Press [Delete] to delete the file.

3

The selected file is deleted.

 **Note**

If you do not want to delete the file, 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.

 **Important**

To use this function, the optional hard disk must be installed on the printer.

A Locked Print file cannot be stored if:

- 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.

 **Note**

If a Locked Print file has not been stored properly, check the error log on 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 Jobs] 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.

Reference

For details about the error log on the display panel, see p.110 "Checking the Error Log".

For details about the **[Auto Delete Temporary Jobs]** and **[Auto Delete Stored Jobs]**, see p.145 "HD Management".

Printing a Locked Print File

The following procedure describes how to print a Locked Print file with the PCL 6/5c, RPCS and PostScript 3 printer driver.

Important

Applications with their own drivers, such as PageMaker, do not support this function.

1 Configure the Locked Print in the printer driver's properties.

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

2 Start printing from the application's [Print] dialog box.

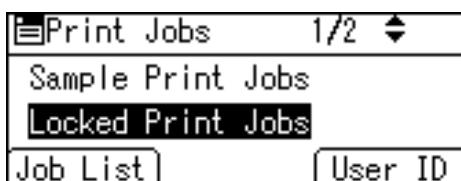
The Locked Print job is sent to the printer.

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



A list of print files stored in the printer appears.

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

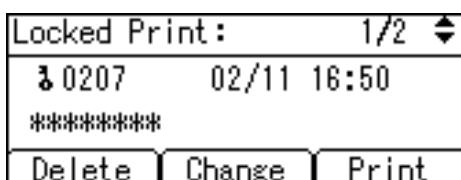


A list of Locked Print files stored in the printer appears.

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

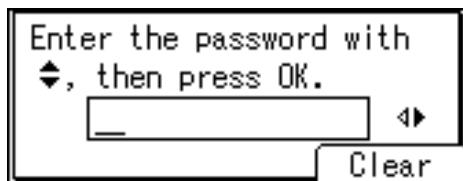
You can print files also by pressing **[User ID]**.

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



The password screen appears.

6 Enter the password using the [\blacktriangle], [\blacktriangledown], [\blackleftarrow] or [\blackrightarrow] key, and then press the [OK] key.



The print confirmation screen appears.

3

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

If you forget your password, ask your network administrator for help.

7 Press [Print].

The locked file is printed.

Press [Cancel] to cancel printing.

 **Note**

- 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.

 **Reference**

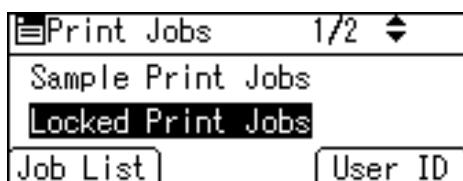
For details about [User ID], see p.103 "Printing from the User ID Screen".

Deleting Locked Print Files

1 Press [Prt.Jobs].



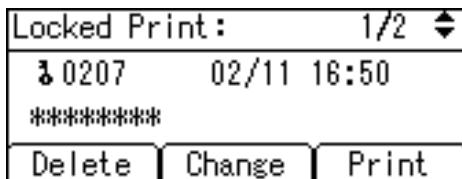
2 Select [Locked Print Jobs] using the [\blacktriangle] or [\blacktriangledown] key, and then press [Job List].



A list of Locked Print files stored appears.

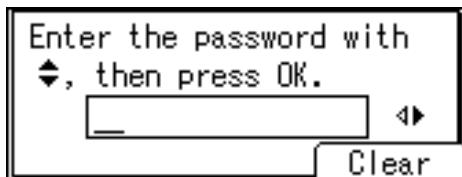
Depending on the security settings, certain print jobs may not be displayed.

3 Select the file you want to delete using the [\blacktriangle] or [\blacktriangledown] key, and then press [Delete].



The password screen appears.

4 Enter the password using the [\blacktriangle], [\blacktriangledown], [\blackleftarrow] or [\blackrightarrow] key, and then press the [OK] key.



The delete confirmation screen appears.

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

If you forget your password, ask your network administrator for help.

5 Press [Delete].

The selected file is deleted.

If you do not want to delete the file, 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.

Important

- To use this function, the optional hard disk must be installed on the printer.
- A Hold Print file cannot be stored if:
 - 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.

 **Note**

- If a Hold Print file has not been stored properly, check the error log on 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 Jobs]** 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.

 **Reference**

For details about the error log on the display panel, see p.110 "Checking the Error Log".

For details about the **[Auto Delete Temporary Jobs]** and **[Auto Delete Stored Jobs]**, see p.145 "HD Management".

Printing a Hold Print File

The following procedure describes how to print a Hold Print file with the PCL 6/5c and the RPCS printer driver. For information about how to print a Hold Print file with the PostScript 3 printer driver, see Postscript 3 Supplement.

 **Important**

- Applications with their own drivers, such as PageMaker, do not support this function.

1 Configure Hold 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.**

You can also set a file name. The file name you set will be displayed on the printer's Job List screen.

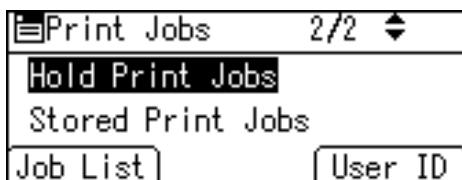
3 Start printing from the application's **[Print] dialog box.**

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

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



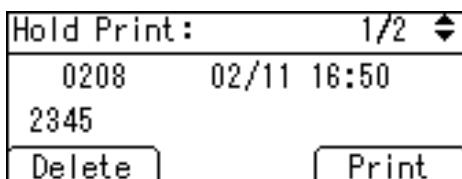
5 Select [Hold Print Jobs] using the [▲] or [▼] key, and then press [Job List].



A list of print files stored in the printer appears.

Depending on the security settings, certain print jobs may not be displayed. You can print files also by pressing [User ID].

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



The confirmation screen appears.

7 Press [Print].

The Hold Print file is printed.

Press [Cancel] to cancel printing.

Note

- When printing is completed, the stored file is deleted.
- To stop printing after printing has started, press the [Job Reset] key. The file is deleted.

Reference

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.

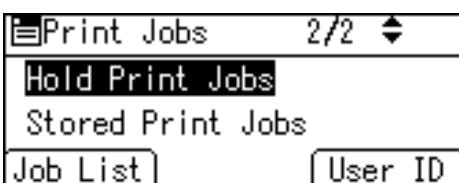
For details about [User ID], see p.103 "Printing from the User ID Screen".

Deleting Hold Print Files

1 Press [Prt.Jobs].



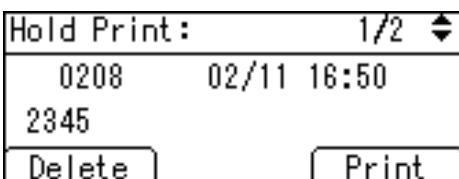
2 Select [Hold Print Jobs] using the [▲] or [▼]key, and then press [Job List].



A list of a Hold Print files stored in the printer appears.

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].



The delete confirmation screen will appear.

4 Press [Delete] to delete the file.

The selected file is deleted.

If you do not want to delete the file, 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 later.

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

Important

- To use this function, the optional hard disk must be installed on the printer.
- A Stored Print file cannot be stored if:
 - 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.

 **Note**

- If a Stored Print file has not been stored properly, check the error log on 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. 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 deleted using Web Image Monitor, after you select **[Stored Print Jobs]** using the control panel will appear on the display panel. However, an error message will appear if you try to 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.

 **Reference**

For details about the error log on the display panel, see p.110 "Checking the Error Log".

For details about the **[Auto Delete Temporary Jobs]** and **[Auto Delete Stored Jobs]**, see p.145 "HD Management".

Printing a Stored Print File

The following procedure describes how to print a Stored Print file with the PCL 6/5c, RPCS and Postscript 3 printer driver. For information about how to print a Stored Print file with the PostScript 3 printer driver, see Supplement included.

 **Important**

- Applications with their own drivers, such as PageMaker, do not support this function.

1 Configure 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 Normal Print] (or [Store and 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 password. The same password must be entered when printing or deleting.

You can set a file name. The file name you set will be displayed on the printer's Job List screen.

3 Start printing from the application's [Print] dialog box.

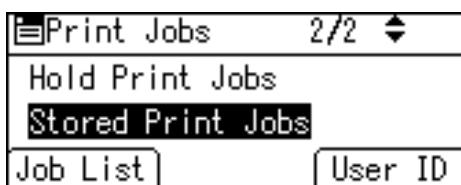
The Stored Print job is sent to the printer and stored.

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

3



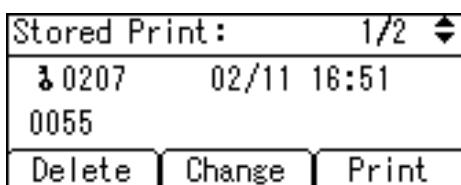
5 Select [Stored Print Jobs] using the [▲] or [▼] key, and then press [Job List].



A list of Stored Print files stored in the printer appears.

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

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



The confirmation screen appears.

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

7 Press [Print].

The Stored Print file is printed.

Press [Cancel] to cancel printing.

 **Note**

- 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.
- When the number of set quantity is changed, 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 **[JobReset]** 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.

 **Reference**

For details about setting printer drivers, see the printer driver Help. You can also print or delete a Stored Print file from Web Image Monitor. For details, see Web Image Monitor Help.

For details about the **[Auto Delete Stored Jobs]**, see p.145 “HD Management”.

For details about **[User ID]**, see p.103 “Printing from the User ID Screen”.

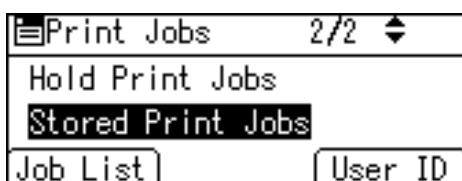
3

Deleting Stored Print Files

1 Press **[Prt.Jobs]**.



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



A list of Stored Print files stored in the printer appears.

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

3 Select the file you want to delete using the [\blacktriangle] or [\blacktriangledown] key, and then press [Delete].

Stored Print:	1/2	▼
3 0207	02/11 16:51	
0055		
Delete	Change	Print

The delete confirmation screen will appear.

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

3

If you forget your password, ask your network administrator for help.

4 Press [Delete] to delete the file.

The selected file is deleted.

If you do not want to delete the file, press [Cancel].

Printing from the User ID Screen

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

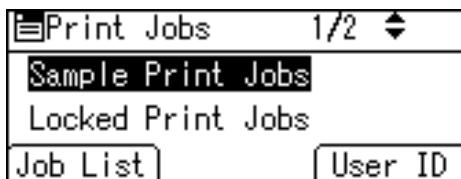
Printing the Selected Print Job

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



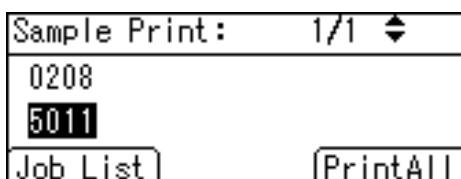
3

2 Press [User ID].



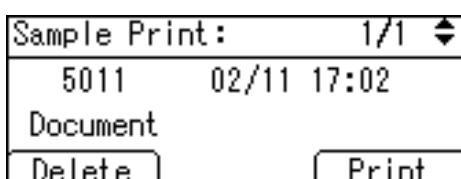
A list of user IDs whose files are stored in the printer appears.

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



The print job list of the selected user ID appears.

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



The confirmation screen appears.

5 Press [Print].

The selected file is printed.

To cancel printing, press [Cancel].

Reference

For details about printing each type of print job, see the followings:

- p.89 "Sample Print"
- p.92 "Locked Print"
- p.95 "Hold Print"
- p.98 "Stored Print"

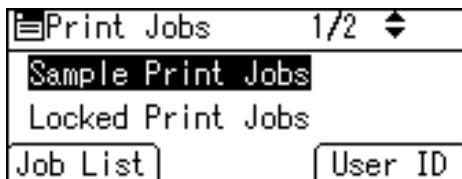
Printing All Print Jobs

3

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

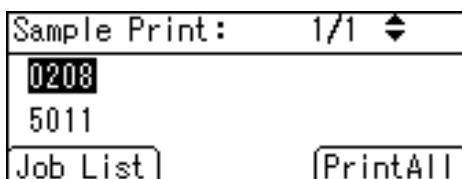


2 Select a type of print jobs you want to print using the [▲] or [▼] key, and then press [User ID].



A list of user IDs whose files are stored in the printer appears.

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



The confirmation screen appears.

4 Press [Print].

The selected files are printed.

To cancel printing, press [Cancel].

 **Note**

- After printing is completed, Sample Print, Locked Print, and Hold Print files are deleted.
- You cannot select a print job that is not stored under the selected user ID.
- If you select multiple Sample Print files and do not specify the number of sets on the confirmation screen, one set less than the number specified on the computer is printed 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, and do not specify the number of sets on the confirmation screen, the minimum number of set quantity among all settings is applied.
- If you select Locked Print, 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.

 **Reference**

For details about printing each type of print job, see the followings:

- p.89 "Sample Print"
- p.92 "Locked Print"
- p.95 "Hold Print"
- p.98 "Stored Print"

Form Feed

This section gives instructions for operating the printer when there is no tray for the selected paper size or type, or when paper loaded in the printer has run out.

Important

The tray cannot be changed if the following functions are set:

- Duplex Print to a tray that does not support duplex printing
- Cover Sheet
- Slip Sheet

3

Note

If form feed is selected for a tray with the following settings, you can change the tray by canceling the settings:

- Duplex Print

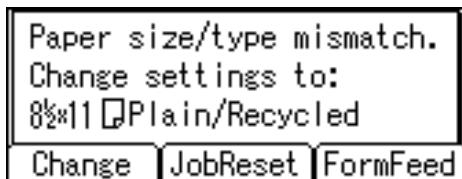
Reference

If Auto Continue is selected, form fed paper is printed after a set interval. For details, see p.152 "Auto Continue".

Printing from a Selected Tray

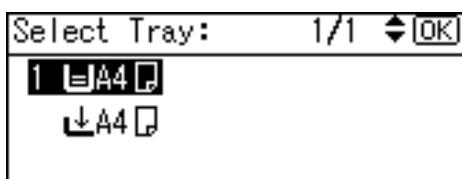
If the printer does not have a tray for the selected paper size or paper type, or if the selected paper loaded in the printer has run out, a caution message appears. If this message appears, do the following procedure.

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



2 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 you want to print after adding paper to the tray, select the tray after loading the correct paper.



The printer prints using the selected tray.

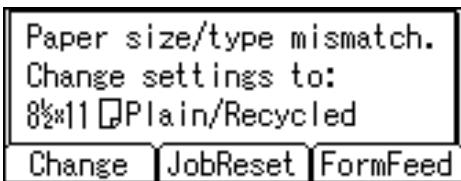
Note

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

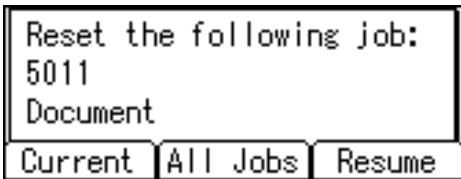
Canceling a Print Job

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

1 Press [JobReset].



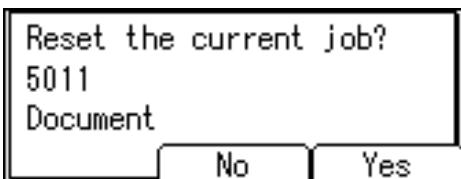
2 Press [Current].



The confirmation message appears.

To resume printing jobs, press [Resume].

3 Press [Yes] to cancel the print job.



Press [No] to return to the previous display.

 **Note**

- 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 [JobReset] is pressed while "Waiting..." 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 [JobReset].
- A print job containing a large volume of data may take considerable time to stop.

 **Reference**

To stop data printing, see p.108 "Canceling a Print Job".

Cancelling a Print Job

This section gives instruction to stop printing from the computer or the control panel.

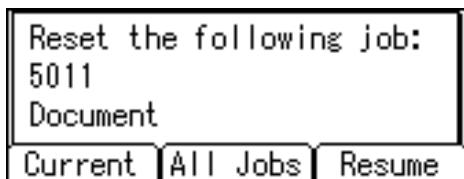
Cancelling a Print Job Using the Control Panel

1 Press the **[JobReset]** key.

A confirmation message appears.

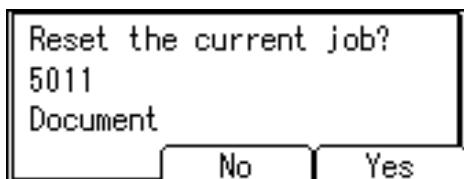
3

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.

Windows - Cancelling a Print Job from the computer

You can cancel a print job from the computer if transferring print jobs is not completed.

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 Printing]**.

 **Note**

- If the printer is shared by multiple computers, be careful not to accidentally cancel someone else's print job.
- If the printer is connected to the computer using a parallel cable, sent print jobs may be canceled if **[JobReset]** is pressed while "Waiting..." 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.
- In Windows XP, Windows Server 2003, and Windows NT 4.0, click **[Cancel]** on the **[Document]** menu.
- In Windows 95/98/Me/2000 or Windows NT 4.0, you can also open the print job queue window by double-clicking the printer icon in the **[Printers]** printer window (the **[Printers and Faxes]** window under Windows XP and Windows Server 2003).
- You cannot stop printing data that has already been processed. For this reason, printing may continue for a few pages after you press **[JobReset]**.
- A print job containing a large volume of data may take considerable time to stop.

Mac OS - Canceling a Print Job from the computer

1 Double-click the printer icon on the desktop.

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.

Under Mac OS X, start Print Center.

2 Select the name of the job you want to cancel.**3 Click the pause icon, and then click the trash icon.** **Note**

- If the printer is shared by multiple computers, be careful not to accidentally cancel someone else's print job.
- If the printer is connected to the computer using a parallel cable, sent print jobs may be canceled if **[JobReset]** is pressed while "Waiting..." 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 **[JobReset]**.
- A print job containing a large volume of data may take considerable time to stop.

Checking the Error Log

If files could not be stored due to printing errors, identify the cause of the errors by checking the error log on the control panel.

Important

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
- Locked Print
- Hold Print
- Stored Print

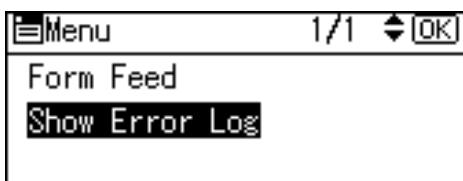
If the main power switch is turned off, the log is deleted.

3

1 Press the [Option] key.

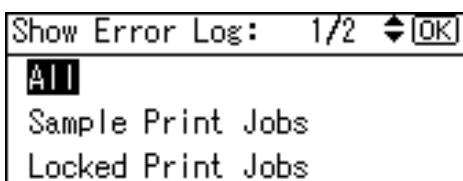


2 Select [Show Error Log] using the [▲] or [▼] key, and then press the [OK] key.



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

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



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

Error Log:All	1/4	◆
21 0208	02/11	18:15
Document		
►Job Reset		

 **Note**

- 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.

Collate

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

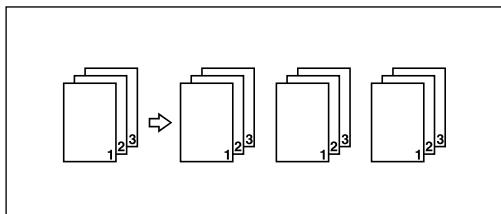
Important

- To use these functions, an optional memory unit of at least 256 MB or the optional hard disk drive must be installed on the printer.
- Up to 150 pages can be sorted using RAM. If the optional hard disk drive is installed, up to 1,000 pages can be sorted.

3

Collate

Output can be assembled as sets in sequential order.



Note

- If Auto Continue occurs on the first set, Collate will be canceled.
- If forced printing occurs on the first set, Collate will be canceled.
- When setting Collate in the printer driver settings, make sure that a collate option is not selected in the application's print settings. If a collate option is selected, printing will not be as intended.

Reference

For details about printing method, see the printer driver Help.

Spool Printing

With Spool Printing, the print data is saved in the hard disk before printing. To use this function, set it from the menu. See p.222 “spoolsw”.

Important

- Do not turn off the printer or the computer when a print job is being spooled and the **Data In** indicator is blinking. The print job will remain in the hard disk and be printed when the printer is turned on. The setting can be changed using the “spoolsw clear job” command on the telnet.
- The Spool Printing function is available when the optional hard disk is installed.
- The Spool Printing function is available for data received using diprint, lpr, ipp, ftp, and sftp (TCP/IP (IPv6)).
- When using diprint, the Spool Printing function cannot be used with bidirectional 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 sending print jobs spooled from several computers, up to one diprint job, 10 lpr jobs, one ipp job, one ftp job, one sftp job, and one smb job can be spooled. Jobs exceeding this spooling capacity cannot be executed. It is necessary to wait to add new jobs.

3

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.

Reference

For information about the “spoolsw clear job” command on the telnet, see p.222 “spoolsw”.

Setting Spool Printing

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

- Using Web Image Monitor
In **[System]** on the **[Configuration]** menu, click **[Enable]** in **[Spool Printing]**.
- Using telnet
Enter “spoolsw spool on”.

Reference

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

For details about “spoolsw spool on”, see p.222 “spoolsw”.

Viewing or Deleting spooled jobs using Web Image Monitor

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

1 Open a Web browser.

2 Enter “[http://\(printer's address\)/*](http://(printer's address)/)” in the address bar to access the printer whose settings you want to change.

Top Page of Web Image Monitor appears.

3

3 Click [Login].

The window for entering the login user name and password appears.

4 Enter the login user name and password, and then click [Login].

Contact your network administrator for information about the settings.

5 In the menu area, click [Job].

A submenu will appear.

6 On the [Printer] menu, click [Spool Printing].

A list of spooled jobs appears.

7 To delete a job, select the check box of the job you want to delete, and then click [Delete].

The selected job is deleted.

8 Click [Logout].

9 Quit Web Image Monitor.

Reference

For details, see Web Image Monitor Help.

Cover

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

Important

- To use this function, Collate must be set.

Note

- The cover sheets should be the same size and orientation as the body of the paper.
- If Auto Tray Select is set as the paper feed tray for the body paper, the paper will be delivered from a tray containing paper from a tray containing paper in the portrait direction. Therefore, if the cover paper is set to landscape orientation, the orientation cover and body will be different.

3

Reference

For printing methods, see the printer driver Help.

Memory Capacity and Paper Size

Additional memory apart from standard memory may be required depending on the paper size and data type.

Note

- When printing from bypass tray, duplex printing will not be supported regardless of the memory capacity, and only one-side will be printed.

3

One-sided printing (600 × 600 dpi)

❖ 256 MB (standard)

- A5, B5 JIS, A4, Letter, Legal and Postcard sized paper can be printed.
- 210 mm × 900 mm (8.2 in. × 35.4 in.) sized paper may not be printed, depend on the printing data.

One-sided printing (1200 × 600 dpi)

❖ 256 MB (standard)

- A5 and Postcard sized paper can be printed.
- B5 JIS, A4, Letter, Legal and 210 mm × 900 mm (8.2 in. × 35.4 in.) sized paper may not be printed, depend on the printing data.

❖ 384 MB (standard + 128 MB)

- A5, B5 JIS, A4, Letter, Legal, Postcard and 210 mm × 900 mm (8.2 in. × 35.4 in.) sized paper can be printed.

One-sided printing (1200 × 1200 dpi)

❖ 256 MB (standard)

- Postcard sized paper can be printed.
- A5, B5 JIS, A4, Letter and Legal sized paper may not be printed, depend on the printing data.

❖ 384 MB (standard + 128 MB)

- A5, B5 JIS, A4, Letter, Legal and Postcard sized paper can be printed.
- 210 mm × 900 mm (8.2 in. × 35.4 in.) sized paper may not be printed, depend on the printing data.

❖ 512 MB (standard + 256 MB)

- A5, B5 JIS, A4, Letter, Legal Postcard and 210 mm × 900 mm (8.2 in. × 35.4 in.) sized paper can be printed.

Duplex printing (600 × 600 dpi)

❖ **256 MB (standard)**

- A5, B5 JIS, A4, Letter, Legal and Postcard sized paper can be printed.

Duplex printing (1200 × 600 dpi)

❖ **256 MB (standard)**

- Postcard sized paper can be printed.
- A5, B5 JIS, A4, Letter and Legal sized paper may not be printed, depend on the printing data.

3

❖ **384 MB (standard + 128 MB)**

- A5, B5 JIS, A4, Letter, Legal and Postcard sized paper can be printed.

Duplex printing (1200 × 1200 dpi)

❖ **256 MB (standard)**

- A5 and Postcard sized paper can be printed.
- B5 JIS, A4, Letter and Legal sized paper may not be printed, depend on the printing data.

❖ **384 MB (standard + 128 MB)**

- A5, B5 JIS and Postcard sized paper can be printed.
- A4, Letter and Legal sized paper may not be printed, depend on the printing data.

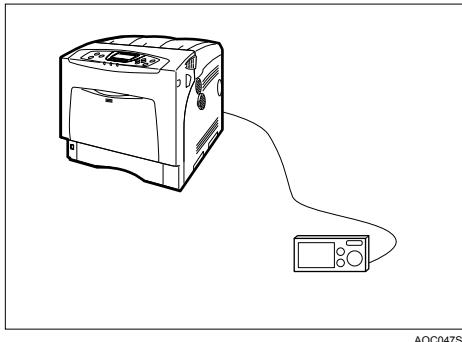
❖ **512 MB (standard + 256 MB)**

- A5, B5 JIS, A4, Letter, Legal and Postcard sized paper can be printed.

4. Direct Printing from a Digital Camera (PictBridge)

What is PictBridge?

You can connect a PictBridge-compatible digital camera to this printer using a USB cable. This allows you to print photographs taken using the digital camera directly by operating the digital camera.



Before you can use this function, the printer requires the following options:

- USB host interface board
- Camera direct print card

Note

- Check your digital camera is PictBridge-compatible.
- Up to 999 images can be sent from the digital camera to the printer during one print transaction. If an attempt is made to send more images, an error message is sent to the camera and printing fails.
- Since printing conditions are specified on the digital camera, specifiable parameters depend on the particular digital camera. For details, see your digital camera's manual.
- This function is compatible with USB 1.1.

PictBridge Printing

Follow the procedure below to start PictBridge printing on this printer.

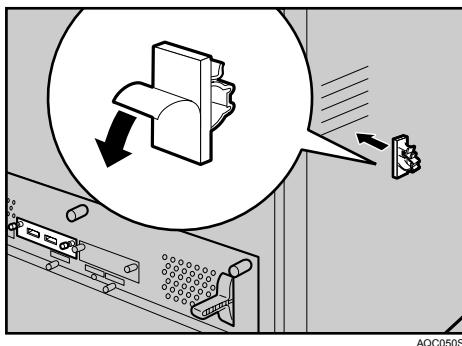
Important

- Do not disconnect the USB cable while data is being sent. If you do, printing will fail.
- The USB host interface board is supplied with a USB cable and a hook onto which you can roll up and hang the cable.

1 Attach the hook on the back of the printer near the USB connection slot.

Attach the hook where it will not interfere with printer operation and access.

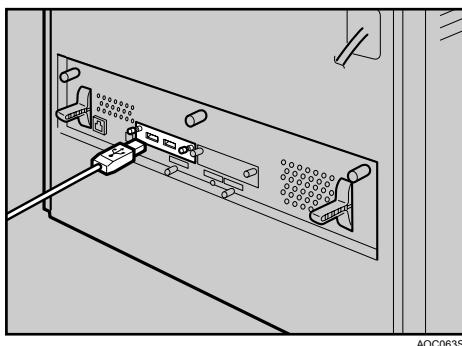
4

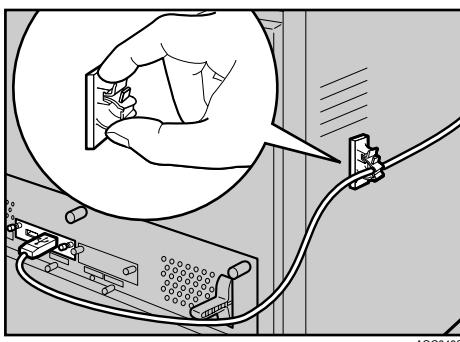


2 Check the printer and the digital camera are both switched on.

3 Connect a USB cable between the optional USB host interface board installed on the printer and the digital camera.

The Data In indicator on the printer blinks for several seconds and "PctBrdg" is displayed on the printer. This indicates the printer recognizes the digital camera as a PictBridge device.



4 Secure the USB cable using the hook.**5** On your digital camera, select the images you want to print, and specify the printing conditions.**6** The printer receives settings from the digital camera and starts printing.**Note**

- Since printing conditions are specified on the digital camera, specifiable parameters depend on the particular digital camera. For details, see the digital camera's manual.
- Some digital cameras require settings for manual PictBridge operation. For details, see your digital camera's manual.

Reference

To stop data printing, see p.108 "Canceling a Print Job".

What Can Be Done on This printer

This printer can perform the following functions using its PictBridge feature.

The settings available for these functions are as follows:

- Single image printing
- Selected image printing
- All image printing
- Index printing
- Trimming
- Date and file name printing
- Paper size
- Image print size
- Multi-Image-Layout
- Printing quality
- Color matching
- Paper type specification
- Form printing
- Camera memo printing

4

Note

- This printer does not support the following settings:
 - DPOF printing
 - Margin-less printing
- The setting parameters and their names may vary depending on the digital camera. For details, see your digital camera's manual.

Index Printing

❖ A4 (210 × 497)

Horizontal images × vertical images (in)	Paper orientation
8 × 12	<input type="checkbox"/>
12 × 8	<input type="checkbox"/>

❖ A5 (148 × 210)

Horizontal images × vertical images (in)	Paper orientation
5 × 8	<input type="checkbox"/>
8 × 5	<input type="checkbox"/>

❖ Letter (8 1/2 × 11)

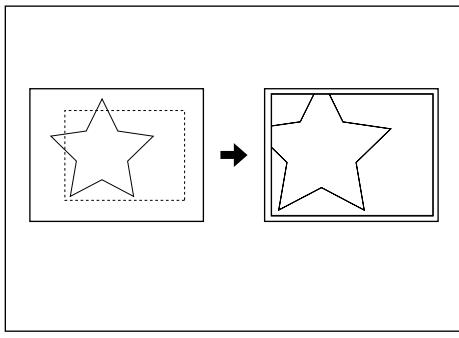
Horizontal images × vertical images (in)	Paper orientation
8 × 10	<input type="checkbox"/>
10 × 8	<input type="checkbox"/>

Note

- Index printouts vary depending on the orientation of the paper placed on the specified size tray.
- Depending on the digital camera, a form feed may be inserted after one set of images belonging to one type ends.
- The number of images in each size of paper is fixed.

Trimming

Use this function to print only the inside of the trimming area specified on the digital camera.



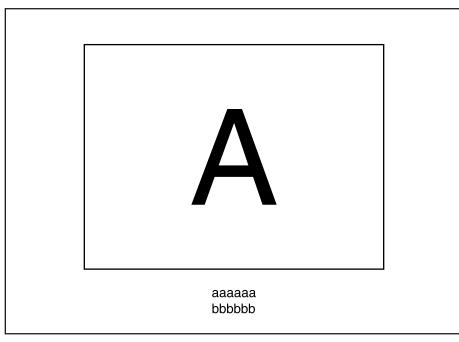
AGZ007S

*¹ -- Trimming area

4

Date and File Name Printing

Use this function to print the date and/or file name under the image.



AGZ005S

In the above figure, “aaaaa” indicates the file name and “bbbbb” indicates the date.

Paper Size

Use this function to print on paper with the size specified on the digital camera.

Paper size name	Actual size
Postcard	148 mm × 100 mm

Paper size name	Actual size
Letter (8 1/2" x 11")	279.4 mm x 216 mm (8 1/2 x 11)
A4	297 mm x 210 mm
A5	210 mm x 148 mm
A6	148 mm x 105 mm
B5	257 mm x 182 mm
B6	182 mm x 128 mm

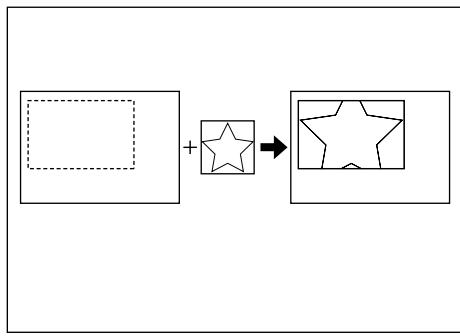
 **Note**

- Specify Undefined Size for the A6, B5, and B6 sizes.
- For details about specifying undefined sizes, see Hardware Guide.

4

Image Print Size

Use this function to print images with the size specified on the digital camera.



AGZ008S

-- indicates the image size specified on the camera.

You can specify the following image print sizes:

❖ **Fixed size**

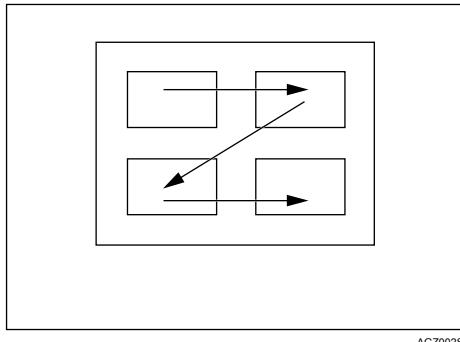
- 3.25" x 2.5"
- 5" x 2.5"
- 6" x 4"
- 7" x 5"
- 10" x 8"
- 254 mm x 178 mm
- 110 mm x 74 mm
- 89 mm x 55 mm
- 148 mm x 100 mm
- 8 cm x 6 cm
- 10 cm x 7 cm
- 13 cm x 9 cm
- 15 cm x 10 cm
- 18 cm x 13 cm
- 21 cm x 15 cm
- 24 cm x 18 cm

Note

- An error occurs if the specified size is larger than the actual paper size.

Multi-Image-Layout

Use this function to print multiple images on the specified paper.



AGZ002S

4

The number of images that can be printed on one page is as follows:

Paper size	Number of images that can be specified
Postcard	2, 4
Letter (8 ¹ / ₂ " × 11")	2, 4, 8, 9, 16, 25, 32
A4	2, 4, 8, 9, 16, 25, 32
A5	2, 4, 8, 9, 16
A6	2, 4, 8
B5	2, 4, 8, 9, 16, 25
B6	2, 4, 8, 9

The number and arrangement of images that can be specified are as follows:

Number of images	Vertical images × horizontal images	Paper orientation
2	2 × 1	<input checked="" type="checkbox"/>
4	2 × 2	<input checked="" type="checkbox"/>
8	4 × 2	<input checked="" type="checkbox"/>
9	3 × 3	<input checked="" type="checkbox"/>
16	4 × 4	<input checked="" type="checkbox"/>
25	5 × 5	<input checked="" type="checkbox"/>
32	8 × 4	<input checked="" type="checkbox"/>

Note

- A form feed may be inserted between images depending on the digital camera in use.
- Printing in the specified way may not be possible depending on the specification for the number of images to be printed.

Printing Quality

Use this function to print images at the selected printing quality.

If you select **[Default]** or **[Normal]**, the printer prints in normal quality; if you select **[Fine]**, the printer prints in the best quality.

Color Matching

Use this function to optimize colors when printing images.

If you select **[Default]** or **[OFF]**, the printer prioritizes gradation for color matching, if you select **[ON]**, the printer prioritizes saturation.

Paper type Specification

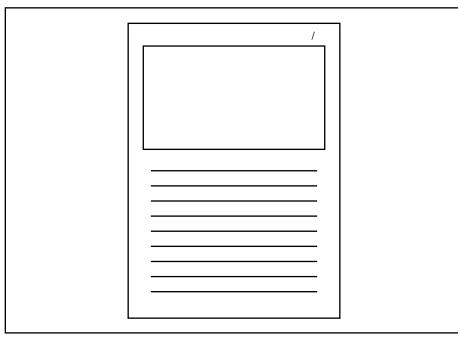
This function sends the printer's paper type information to the digital camera. The names of paper types displayed on the digital camera's screen are different to the names displayed on the printer. Use the table below to match the paper types.

To display a paper type name on the digital camera's screen, use the printer's control panel to set the paper type of the printer correctly.

The paper type detected by the digital camera	The paper type of the printer
Default	All type of paper
Plain Paper	Plain or recycled paper
Fast Photo Paper	Glossy paper

Form Printing

Use this function to print images in a predetermined layout format.



AGZ009S

Camera Memo Printing

Use this function to print text data together with an image if it is attached to the image.

Exiting PictBridge

Follow the procedure below to quit the PictBridge mode.

Important

Do not disconnect the USB cable while data is being sent to the printer. If you do, printing will fail.

1 Check the control panel of this printer is displaying the “Ready” state.

2 Disconnect the USB cable from the printer.

When PictBridge Printing Does Not Work

This section explains likely causes and possible solutions for problems that can occur when PictBridge printing.

Problem	Cause	Solution
PictBridge is not available.	There is a problem with the USB connection or the PictBridge settings.	<p>Use the following procedure to check the connection and settings:</p> <ol style="list-style-type: none"> ① Disconnect and then reconnect the USB cable. ② Check the PictBridge settings are enabled. ③ Disconnect the USB cable, and then turn off the printer. Turn the printer back on. When the printer has fully booted up, reconnect the USB cable.
When two or more digital cameras are connected, the second and subsequent cameras are not recognized.	You have connected multiple digital cameras.	<p>Connect one digital camera only.</p> <p>Do not connect multiple cameras.</p>
Printing is disabled.	The number of originals exceeds the maximum number of pages that can be printed at a time.	The maximum specifiable print quantity at a time is 999. Respecify the quantity to 999 or less, and then retry printing.
Printing is disabled.	There is no paper of the specified size remaining.	<p>There is no paper of the specified size remaining.</p> <p>If you have to use paper that is not of the specified size, perform Form Feed. To cancel printing, perform Job Cancel.</p>
Printing is disabled.	The paper size setting for this tray cannot be printed on the printer.	Select the paper size setting that can be printed on the printer.

Other Reference Information

For further details about printing on this printer, see the following:

Reference

For details about paper size, paper type, or tray settings, see General Settings Guide.

5. Making Printer Settings Using the Control Panel

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.



Note

This menu can be selected only when the optional Data Overwrite Security Unit is installed.

❖ Paper Input

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

❖ Maintenance

Menu
Quality Maintenance
General Settings
Timer Settings
HD Management

❖ List/Test Print

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

5

❖ System

Menu
Print Error Report
Auto Continue
Memory Overflow
Printer Language
Sub Paper Size
Default Printer Lang.
Energy Saver
Memory Usage
B&W Page Detect
Spool Printing
RAM Disk
Notify by Email

Note

- [Spool Printing]** appear when the optional hard disk is installed.
- [RAM Disk]** will not appear when the optional hard disk is installed.

❖ Print Settings

Menu
Machine Modes
PCL Menu
PS Menu
PDF Menu

❖ Security Options

Menu
Extended Security
Service Mode Lock
Firmware Version
Network Security Level
Transfer Log Setting

❖ Host Interface

Menu
I/O Buffer
I/O Timeout
Network
IEEE 802.11b
USB Setting

Note

- [IEEE 802.11b]** appears when the optional IEEE 802.11b interface unit is installed.
- [USB Setting]** appears when the optional USB Host interface board is installed.

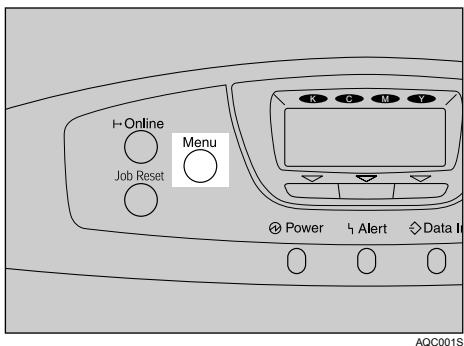
❖ Language

Menu
English
Deutsch
Français
Italiano
Nederlands
Svenska
Norsk
Dansk
Español
Suomi
Português
Čeština
Polski
Magyar

Memory Erase Status Menu

Displays data status inside the memory.

1 Press the **[Menu]** key/



5

The menu screen appears.

2 Press the **[▲]** or **[▼]** key to display **[Memory Erase Status]**, and then press the **[OK]** key.

3 Displays **[Data to erase remaining.]** if there is data remaining inside the memory, displays **[Currently no data to erase.]** if there is no data inside the memory, and displays **[Erasing data..]** when the data is being deleted.

4 Press the **[OK]** key.

The initial screen appears.

Paper Input Menu

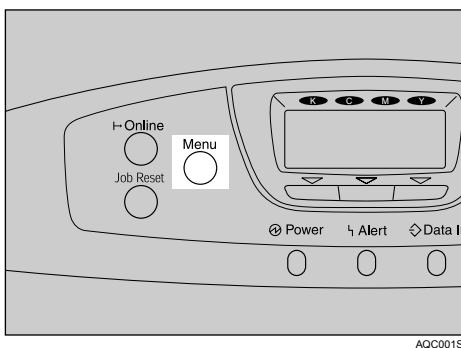
This section explains about paper settings on the Paper Input menu such as paper sizes and types on each tray.

Changing the Paper Input Menu

Auto Tray Select

Follow the procedure below to set **[Auto Tray Select]**.

- 1 Press the **[Menu]** key.



5

The menu screen appears.

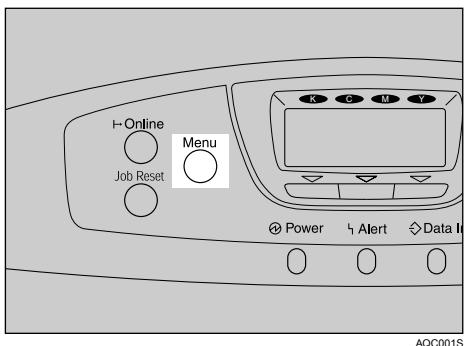
- 2 Press the **[▲]** or **[▼]** key to display **[Paper Input]**, and then press the **[OK]** key.
- 3 Press the **[▲]** or **[▼]** key to display **[Auto Tray Select]**, and then press the **[OK]** key.
- 4 Press the **[▲]** or **[▼]** key to display the tray you do not want to select, and then press the **[OK]** key.
- 5 Press the **[▲]** or **[▼]** key to display **[On]**, and then press the **[OK]** key.
Wait one second. The **[Auto Tray Select]** screen appears.
- 6 Press the **[Menu]** key.

The initial screen appears.

Tray Priority

Follow the procedure below to change the tray priority.

1 Press the [Menu] key.



The menu screen appears.

5

2 Press the [\blacktriangle] or [\blacktriangledown] key to display [Paper Input], and then press the [OK] key.

3 Press the [\blacktriangle] or [\blacktriangledown] key to display [Tray Priority], and then press the [OK] key.

4 Press the [\blacktriangle] or [\blacktriangledown] key to select a tray you want to use.

5 Press the [OK] key.

Wait one second. The [Paper Input] screen appears.

6 Press the [Menu] key.

The initial screen appears.

Paper Input menu parameters

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

❖ Paper Size: Bypass Tray

You can specify the paper size for Bypass Tray.

- **220-240V**: A4 (210 mm \times 297 mm), A5 (148 mm \times 210 mm), A6 (105 mm \times 148 mm), B5 JIS (182 mm \times 257 mm), B6 JIS (128 mm \times 182 mm), C5 Env. (162 mm \times 229 mm), C6 Env. (114 mm \times 162 mm), DL Env. (110 mm \times 220 mm), $8\frac{1}{2}'' \times 14''$, $8\frac{1}{2}'' \times 13''$, $8'' \times 13''$, $7\frac{1}{4}'' \times 10\frac{1}{2}''$, $5\frac{1}{2}'' \times 8\frac{1}{2}''$, $4\frac{1}{8}'' \times 9\frac{1}{2}''$, $3\frac{7}{8}'' \times 7\frac{1}{2}''$, 16K (195 mm \times 267 mm), Custom Size
- **120V**: $8\frac{1}{2}'' \times 14''$, $8\frac{1}{2}'' \times 13''$, $8\frac{1}{2}'' \times 11''$, $8\frac{1}{4}'' \times 13''$, $8'' \times 13''$, $7\frac{1}{4}'' \times 10\frac{1}{2}''$, $5\frac{1}{2}'' \times 8\frac{1}{2}''$, $4\frac{1}{8}'' \times 9\frac{1}{2}''$, $3\frac{7}{8}'' \times 7\frac{1}{2}''$, A4 (210 mm \times 257 mm), A5 (148 mm \times 210 mm), A6 (105 mm \times 148 mm), B5 JIS (182 mm \times 257 mm), B6 JIS (128 mm \times 182 mm), C5 Env. (162 mm \times 229 mm), C6 Env. (114 mm \times 162 mm), DL Env. (110 mm \times 220 mm), 16K (195 mm \times 267 mm), Custom Size

 **Note**

Default:

- **220-240V**: A4 (210 mm × 297 mm)
- **120V**: 8¹/₂" × 11"

❖ **Paper Size: Tray 1**

You can specify the paper size for Tray 1.

- **220-240V**: AutoDetect (A4 (210 mm × 297 mm), A5 (148 mm × 210 mm), A6 (105 mm × 148 mm), 8¹/₂" × 14", 8¹/₂" × 11", 7¹/₄" × 10¹/₂"), B5 JIS (182 mm × 257 mm), B6 JIS (128 mm × 182 mm), 8¹/₂" × 13", 5¹/₂" × 8¹/₂", 8" × 13", 8¹/₄" × 13", 4¹/₈" × 9¹/₂", 3⁷/₈" × 7¹/₂", C5 Env. (162 mm × 229 mm), C6 Env. (114 mm × 162 mm), DL Env. (110 mm × 220 mm), 16K (195 mm × 267 mm), Custom Size
- **120V**: AutoDetect (A4 (210 mm × 257 mm), 8¹/₂" × 14", 8¹/₂" × 11", 5¹/₂" × 8¹/₂", 7¹/₄" × 10¹/₂"), B5 JIS (182 mm × 257 mm), A5 (148 mm × 210 mm), B6 JIS (128 mm × 182 mm), A6 (105 mm × 148 mm), 8" × 13", 8¹/₂" × 13", 8¹/₄" × 13", 4¹/₈" × 9¹/₂", 3⁷/₈" × 7¹/₂", C5 Env. (162 mm × 229 mm), C6 Env. (114 mm × 162 mm), DL Env. (110 mm × 220 mm), 16K (195 mm × 267 mm), Custom Size

 **Note**

Default:

- **220-240V**: A4 (210 mm × 297 mm)
- **120V**: 8¹/₂" × 11"

❖ **Paper Size: Tray 2**

You can specify the paper size for Tray 2.

- **220-240V**: AutoDetect (A4 (210 mm × 297 mm), A5 (148 mm × 210 mm), 8¹/₂" × 14", 8¹/₂" × 11", 7¹/₄" × 10¹/₂"), B5 JIS (182 mm × 257 mm), B6 JIS (128 mm × 182 mm), 8¹/₂" × 13", 5¹/₂" × 8¹/₂", 8" × 13", 8¹/₄" × 13", 4¹/₈" × 9¹/₂", 3⁷/₈" × 7¹/₂", C5 Env. (162 mm × 229 mm), C6 Env. (114 mm × 162 mm), DL Env. (110 mm × 220 mm), 16K (195 mm × 267 mm), Custom Size
- **120V**: AutoDetect (A4 (210 mm × 257 mm), 8¹/₂" × 14", 8¹/₂" × 11", 5¹/₂" × 8¹/₂", 7¹/₄" × 10¹/₂"), B5 JIS (182 mm × 257 mm), A5 (148 mm × 210 mm), B6 JIS (128 mm × 182 mm), 8" × 13", 8¹/₂" × 13", 8¹/₄" × 13", 4¹/₈" × 9¹/₂", 3⁷/₈" × 7¹/₂", C5 Env. (162 mm × 229 mm), C6 Env. (114 mm × 162 mm), DL Env. (110 mm × 220 mm), 16K (195 mm × 267 mm), Custom Size

 **Note**

Default:

- **220-240V**: A4 (210 mm × 297 mm)
- **120V**: 8¹/₂" × 11"

❖ Paper Size: Tray 3

You can specify the paper size for Tray 3.

- **220-240V**: AutoDetect (A4 (210 mm × 297 mm), A5 (148 mm × 210 mm), 8¹/₂" × 14", 8¹/₂" × 11", 7¹/₄" × 10¹/₂"), B5 JIS (182 mm × 257 mm), B6 JIS (128 mm × 182 mm), 8¹/₂" × 13", 5¹/₂" × 8¹/₂", 8" × 13", 8¹/₄" × 13", 4¹/₈" × 9¹/₂", 3⁷/₈" × 7¹/₂", C5 Env. (162 mm × 229 mm), C6 Env. (114 mm × 162 mm), DL Env. (110 mm × 220 mm), 16K (195 mm × 267 mm), Custom Size
- **120V**: AutoDetect (A4 (210 mm × 257 mm), 8¹/₂" × 14", 8¹/₂" × 11", 5¹/₂" × 8¹/₂", 7¹/₄" × 10¹/₂"), B5 JIS (182 mm × 257 mm), A5 (148 mm × 210 mm), B6 JIS (128 mm × 182 mm), 8" × 13", 8¹/₂" × 13", 8¹/₄" × 13", 4¹/₈" × 9¹/₂", 3⁷/₈" × 7¹/₂", C5 Env. (162 mm × 229 mm), C6 Env. (114 mm × 162 mm), DL Env. (110 mm × 220 mm), 16K (195 mm × 267 mm), Custom Size

Note

Default:

- **220-240V**: A4 (210 mm × 297 mm)
- **120V**: 8¹/₂" × 11"

5

❖ Paper Type: Bypass Tray

No Display (Plain Paper), Recycled Paper, Special Paper 1, Special Paper 2, Special Paper 3, Colour Paper, Letterhead, Label Paper, OHP (Transparency), Envelope, Glossy Paper, Coated Paper, Preprinted Paper, Bond Paper, Thin Paper, Thick Paper 1, Thick Paper 2, Cardstock, Plain: Dup.Back, Thick 1: Dup.Back, Thick 2: Dup.Back

Note

Default : Plain Paper

For details about the type of paper loaded in each tray, see Hardware Guide.

❖ Tray 1

No Display (Plain Paper), Recycled Paper, Special Paper 1, Special Paper 2, Special Paper 3, Colour Paper Letterhead, Label Paper, OHP (Transparency), Envelope, Glossy Paper, Coated Paper, Preprinted Paper, Bond Paper, Thin Paper, Thick Paper 1, Thick Paper 2, Cardstock, Plain: Dup.Back, Thick 1: Dup.Back, Thick 2: Dup.Back

Note

Default : Plain Paper

For details about the type of paper loaded in each tray, see Hardware Guide.

❖ Tray 2

No Display (Plain Paper), Recycled Paper, Special Paper 1, Special Paper 2, Special Paper 3, Colour Paper, Letterhead, Label Paper, OHP (Transparency), Envelope, Glossy Paper, Coated Paper, Preprinted Paper, Bond Paper, Thin Paper, Thick Paper 1, Thick Paper 2, Cardstock, Plain: Dup.Back, Thick 1: Dup.Back, Thick 2: Dup.Back

Note

- Default : Plain Paper
- For details about the type of paper loaded in each tray, see Hardware Guide.

❖ Tray 3

No Display (Plain Paper), Recycled Paper, Special Paper 1, Special Paper 2, Special Paper 3, Colour Paper, Letterhead, Label Paper, OHP (Transparency), Envelope, Glossy Paper, Coated Paper, Preprinted Paper, Bond Paper, Thin Paper, Thick Paper 1, Thick Paper 2, Cardstock, Plain: Dup.Back, Thick 1: Dup.Back, Thick 2: Dup.Back

Note

- Default : Plain Paper
- For details about the type of paper loaded in each tray, see Hardware Guide.

5

❖ Auto Tray Select

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

Note

- Default : Off
- When using custom size paper, if [On] is selected in [Auto Tray Select], the size selected on the control panel has priority, if [Off] is selected, the size selected from the printer driver has priority.
- Only installed trays appear on the display panel.
- 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 Priority

You can set a tray to be checked first when [Auto Tray Select] is selected in [Paper] tab from the printer driver. The tray selected here is used when no tray is selected for a print job.

Note

- Default : Tray 1
- Only installed trays appear on the display panel.
- It is recommended that you load paper of the size and orientation you use most frequently in the tray selected in [Tray Priority].

Note

- JIS stands for "Japanese Industrial Standard".

Maintenance Menu

You can set printing conditions such as density and calibration, and printer management such as formatting the optional hard disk unit.

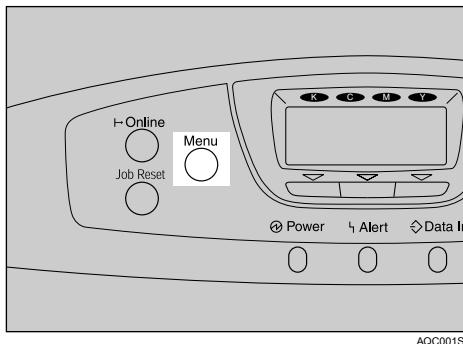
Changing the maintenance menu

This section explains changing the maintenance menu using examples.

Auto Delete Temporary Jobs - HD Management

Follow the procedure below to set Auto Delete Temporary Jobs.

1 Press the [Menu] key.



5

The menu screen appears.

2 Press the [▼] or [▲] key to display [Maintenance], and then press the [OK] key.

3 Press the [▼] or [▲] key to display [HD Management], and then press the [OK] key.

4 Press the [▼] or [▲] key to display [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 enter the timer of auto delete between 1 and 200 hour.

7 Press the [OK] key.

Wait one second. The [HD Management] screen appears.

8 Press the [Menu] key.

The initial screen appears.

Note

- The [HD Management] menu appears only when the optional hard disk is installed.

Reference

For details about the optional hard disk unit, see Hardware Guide.

Maintenance menu parameters

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

Quality Maintenance

❖ Colour Registration

You can specify Auto Adjust or Fuser Adjust for this feature.

❖ Colour Calibration

You can adjust the gradation of bright (highlighted parts) and medium areas (middle parts) for printing.

- Adjust Auto Density

You can print the gradation of auto density.

- Print Sheet 1

You can print gradation correction sheet 1.

- Print Sheet 2

You can print gradation correction sheet 2.

- Reset Setting

You can reset the gradation correction value to default.

🔍 Reference

For details, see “Correcting the Color Gradation”, Hardware Guide.

5

❖ Registration

You can adjust the starting position of the printing page.

- Print Test Sheet

You can print the registration test sheet.

Tray 1, Tray 2, Tray 3, Bypass Tray, Duplex Back Side

📝 Note

Only the installed trays appear on the display panel.

- Adjustment

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

Horizontal : Tray 1, Horizontal : Tray 2, Horizontal : Tray 3, Horizontal :

Bypass Tray, Horizontal : Duplex Back, Vertical : Tray 1, Vertical : Tray 2,

Vertical : Tray 3, Vertical : Bypass Tray, Vertical : Duplex Back

📝 Note

Only the installed trays appear on the display panel.

❖ 4 Colour Graphic Mode

This mode adjusts levels of toner color overlap. If characters or lines blur, selecting **[Text Priority]** may make them clearer. Select **[Photo Priority]** for normal use.

📝 Note

Default: Photo Priority

General Settings

❖ Plain Paper Setting

You can select plain paper mode for each tray.

- Tray 1
Plain Paper 1, Plain Paper 2
- Tray 2
Plain Paper 1, Plain Paper 2
- Tray 3
Plain Paper 1, Plain Paper 2

 **Note**

Default: Plain Paper 1

❖ Letterhead Setting

You can select the letterhead printing mode.

- Letterhead 1
- Letterhead 2
- Letterhead 3

 **Note**

Default: Letterhead 1

❖ Glossy Paper Setting

You can select the glossy paper printing mode.

- Glossy Paper 1
- Glossy Paper 2
- Glossy Paper 3
- Glossy Paper 4

 **Note**

Default : Glossy Paper 1

❖ Coated Paper Setting

You can select the coated paper printing mode.

- Coated Paper 1
- Coated Paper 2
- Coated Paper 3
- Coated Paper 4

 **Note**

Default : Coated Paper 1

❖ Label Paper Setting

You can select the label paper setting printing mode.

- Label Paper 1
- Label Paper 2
- Label Paper 2

Note

Default : Label Paper 1

❖ Envelope Setting

You can select the envelope printing mode.

- Envelope 1
- Envelope 2
- Envelope 3
- Envelope 4

Note

Default : Envelope 1

5

❖ Replacement Alert

Use this function to specify when to warn the user about each replacing supplies.

- Photoconductor Unit
Notify Sooner, Normal, Notify Later

Note

Default: Normal

- Intermediate Transfer Unit
Notify Sooner, Normal, Notify Later

Note

Default: Normal

- Maintenance Kit
Notify Sooner, Normal, Notify Later

Note

Default: Normal

❖ Supply End Option

You can select whether or not to continue printing, when the supply ends.

- Continue Printing
- Stop Printing

Note

Default : Continue Printing

❖ **Display Supply Info**

You can select whether or not to display supply status on the initial screen.

- On
- Off

Note

Default : On

❖ **Unit of Measure**

You can specify the unit of measurement in "mm" or "inch" for the custom paper size.

- mm
- inch

Note

Default value is destination dependant.

5

❖ **Panel Key Sound**

You can select whether or not to sound the beeper when the control panel is pressed.

- On
- Off

Note

Default : On

❖ **Warm-up Beeper**

You can select whether or not to sound the beeper when the warming up is completed.

- On
- Off

Note

Default: On

❖ **Display Contrast**

You can specify the density of the display.

❖ **Key Repeat**

You can specify whether or not to scroll the display panel when the **【▲】** or **【▼】** key is held down. You can also specify the scroll speed (When "Long" is selected, scroll speed will be slow).

- Do not Repeat
- Normal
- Repeat Time: Medium
- Repeat Time: Long

Note

Default: Normal

Timer Settings

❖ Auto Reset Timer

Specify whether to revert to the initial configuration at certain interval. This also specifies the interval to reset the configuration.

- On
- Off

Note

Default : On (60 seconds)

❖ Set Date

Set the date for the internal clock using the **[▲]** or **[▼]** key.

❖ Set Time

Set the time for the internal clock using the **[▲]** or **[▼]** keys.

HD Management

Specify the settings on deleting data on the hard disk when the optional hard disk is installed.

❖ Delete All Temporary Jobs

This appears on the menu only when the hard disk is installed.

Use this function to delete all temporarily saved documents (Sample Print, Locked Print and Hold Print data) at once.

❖ Delete All Stored Jobs

This appears on the menu only when the hard disk is installed.

Use this function to delete all saved documents (Stored Print data) at once.

❖ Auto Delete Temporary Jobs

This appears on the menu only when the hard disk is installed.

Specify whether to automatically delete temporarily saved documents (Sample Print, Locked Print and Hold Print data), such as sample print documents or confidential documents. Also specify the time period to elapse before deletion.

- On
- Off

Note

Default : Off

If you select **[On]**, enter a number of hours when the temporarily saved documents will be automatically deleted. (Default : 8 hours)

❖ **Auto Delete Stored Jobs**

This appears on the menu only when the hard disk is installed.

Specify whether to automatically delete saved documents (Stored Print data).
Also specify the elapse time in days before deletion.

- On
- Off

 **Note**

Default : Off

If you select [**On**], enter a number of days when the saved documents will be automatically deleted. (Default : 3 days)

List/Test Print Menu

You can print lists of configurations on printer or the paper printings. Also, you can check the types and characters of all the printable fonts.

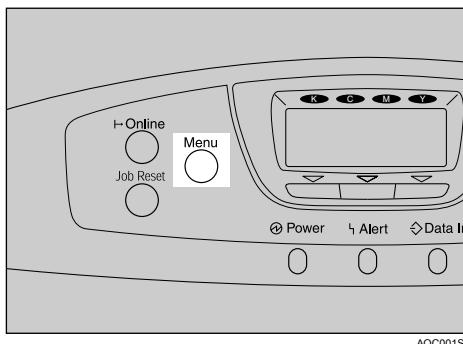
Printing a Configuration Page

Follow the procedure below to print the configuration page.

Important

- The configuration page is printed on A4 or Letter (8 1/2 × 11) size paper, so load them in the same paper tray.

1 Press the [Menu] key.



5

The menu screen appears.

2 Press the [▼] or [▲] key to display [List/Test Print], and then press the [OK] key.

3 Press the [▼] or [▲] key to display [Config. Page], and then press the [OK] key.

The configuration page is printed. The [List/Test Print] menu screen returns on completion of printing.

4 Press the [Menu] key.

The initial screen appears.

Interpreting the configuration page

❖ System Reference

❖ Unit Number

The serial number assigned to the board by its manufacturer is displayed.

❖ Total Counter

The total number of pages printed by the printer to date is displayed.

❖ Total Memory

The total amount of SDRAM installed on the printer is displayed.

❖ Firmware Version

- Printer

The version number of the printer controller firmware is displayed.

- Engine

The version number of the printer engine firmware is displayed.

- NIB

The version number of the network interface board is displayed.

❖ Device Connection

The items are displayed when the device options are installed.

❖ HDD: Font / Macro Download

You can print the hard disk status when the optional hard disk when the optional hard disk is installed.

❖ Printer Language

The version number of the printer language is displayed.

❖ Connection Equipment

The options installed are displayed.

❖ Paper Input

Settings made on the [Paper Input] menu are displayed.

🔍 Reference

For details, see p.136 “Paper Input menu parameters”.

❖ Maintenance

Settings made on the [Maintenance] menu are displayed.

🔍 Reference

For details, see p.141 “Maintenance menu parameters”.

❖ System

Settings made on the **[System]** menu are displayed.

Reference

For more information, see p.152 “System menu parameters”.

❖ Machine Modes

Setting made on the **[Machine Modes]** menu are displayed.

❖ PCL Menu

Settings made on the **[PCL Menu]** are displayed.

Reference

For details, see p.158 “PCL Menu”.

❖ PS Menu

Settings made on the **[PS Menu]** are displayed.

Reference

For details, see p.161 “PS Menu”.

❖ PDF Menu

Settings made on the **[PDF Menu]** are displayed.

Reference

For details, see p.162 “PDF Menu”.

❖ Host Interface

Settings made on the **[Host Interface]** menu are displayed.

When DHCP is active on the network, the IPv4 address, subnet mask and gateway address appear in parentheses on the configuration page.

Reference

For details, see p.167 “Host Interface menu parameters”.

❖ Interface Information

Interface information is displayed.

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.

❖ **Error Log**

You can print an error report.

❖ **Network Summary**

You can print the network device status.

5

❖ **Supply Info List**

You can print the supply status.

❖ **Menu List**

You can print a menu list showing all available menus.

❖ **Colour Demo Page**

You can print a Color Demo Page.

❖ **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.

❖ **Hex Dump**

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

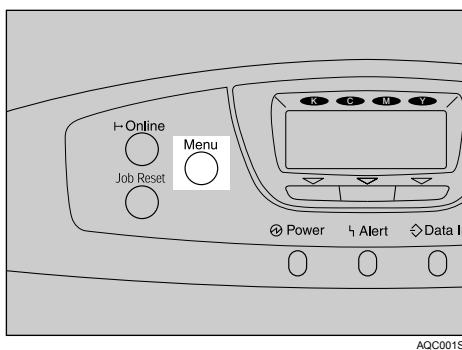
System Menu

You can set basic functions required to use the printer. The printer can be used on factory default, but the configuration can be changed depending on the condition of the user. The changed condition holds even if the printer is turned off.

Changing the system menu

Follow the procedure below to change the settings for Energy Saver Timer.

- 1 Press the [Menu] key.



The menu screen appears.

- 2 Press [\blacktriangle] or [\blacktriangledown] key to display [System], and then press the [OK] key.
- 3 Press [\blacktriangle] or [\blacktriangledown] key to display [Energy Saver], and then press the [OK] key.
- 4 Press the [\blacktriangle] or [\blacktriangledown] key to select [Energy Saver Timer], and then enter [OK] Key
- 5 Press [\blacktriangle] or [\blacktriangledown] key to select the lead time needed to switch to the Energy Saver mode.
- 6 Press the [OK] key.

Wait one second. The [Energy Saver] screen appears.

- 7 Press the [Menu] key.

The initial screen appears.

System menu parameters

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

❖ Print Error Report

You can select [On] or [Off] to have an error report printed when a printer error or memory error occurs.

- Off
- On

 **Note**

Default: Off

❖ Auto Continue

You can make the Auto Continue setting. When set to on, printing continues after a system error occurs.

5

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

 **Note**

Default: Off

When set to on and certain errors occur, the current job may be canceled, and the printer automatically perform the next queued job.

❖ Memory Overflow

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

- Not Print
- Error Report

 **Note**

Default: Not Print

❖ Printer Language

You can specify the printer language.

- Auto
- PCL
- PS
- PDF

 **Note**

Default: Auto

❖ Sub Paper Size

You can select [Off] or [Auto] to enable the Sub Paper Size function. When you select [Auto], the printer uses an alternative paper size if the currently specified paper is not loaded. When you select [Off], the printer uses any size paper in the current specified paper tray.

- Auto
- Off

Note

Default: Off

❖ Default Printer Lang.

You can specify the initial printer language if the printer cannot detect the printer language.

- PCL
- PS
- PDF

Note

Default: PCL

5

❖ Energy Saver

You can specify the number of minutes Energy Saver mode is applied.

❖ Energy Saver On/Off

You can specify whether or not to switch Energy Saver.

- On
- Off

Note

Default: On

When the printer switches to Energy Saver mode, the **Power** indicator is unlit, but the **Online** indicator remains lit.

❖ Energy Saver Timer

You can select the lead time needed to switch to the Energy Saver mode. The Energy Saver mode reduces electric power consumption.

- 1 minute
- 5 minutes
- 15 minutes
- 30 minutes
- 45 minutes
- 60 minutes

Note

Default: 30 minutes

❖ Memory Usage

You can select memory to be used from "Font Priority" or "Frame Priority".

- Font Priority
- Frame Priority

Note

Default : Frame Priority

❖ B&W Page Detect

Specify whether to recognize black-and-white images. Use the black-and-white recognition function to print all monochrome pages in monochrome mode even if color printing is specified.

- Per Page
- Per Job

Note

Default: Per Page

5

❖ Spool Printing

You can select whether all of the print data is spooled to the hard disk drive before printing.

- On
- Off

Note

Default: Off

Spooling stores a sent print job temporarily in the printer, and then prints it.

This menu appears only when the optional hard disk is installed.

❖ RAM Disk

If the optional hard disk is not installed for PDF Direct Print, select a value of 2 MB or higher.

This menu appears only when the optional hard disk is not installed.

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

Note

Default: 4 MB

Important

When the amount of SDRAM is small and RAM Disk is set to 16 MB, printing may not be possible depending on the print job and duplex printing may be canceled. If this happens, increase the amount of SDRAM, or set RAM Disk to 8 MB or less.

Reference

For details about the optional SDRAM module, see Hardware Guide.

❖ Notify by Email

You can specify whether or not to send an error message to a preset e-mail address when an error occurs in the printer.

- On
- Off

Important

After changing the setting, turn off the power of the printer briefly, and then turn it on again.

Note

Default: On

Reference

For information, see Web Image Monitor Help.

Print Settings Menu

You can set conditions for printing.

Changing the Print Settings Menu

Follow the procedure below to change the Bypass Tray Priority.

1 Press the [Menu] key.

The menu screen appears.

2 Press the [Δ] or [∇] key to display [Print Settings], and then press the [OK] key.

3 Press the [Δ] or [∇] key to display [Machine Modes], and then press the [OK] key.

4 Press the [Δ] or [∇] key to display [Bypass Tray Priority], and then press the [OK] key.

5

5 Press the [Δ] or [∇] key to select the priority, and then press the [OK] key.

Wait one second. The [Machine Modes] menu appears.

6 Press the [Menu] key.

The initial screen appears.

Print Settings menu parameters

This section explains parameters that can be set on the Print Settings menu.

❖ **Machine Modes**

❖ **Copies**

You can specify the number of pages to print.

This setting is disabled if the number of pages to print is specified by command or the printer driver.

- 1-999

❖ **Page Size**

You can specify the default paper size.

220-240V: A4 (210 mm × 297 mm), B5 JIS (182 mm × 257 mm), A5 (148 mm × 210 mm), B6 JIS (128 mm × 182 mm), A6 (105 × 148), 16K (195 mm × 267 mm), $4\frac{1}{8} \times 9\frac{1}{2}$, $3\frac{7}{8} \times 7\frac{1}{2}$, C5 Env (162 mm × 229mm), C6 Env (114 mm × 162 mm), DL Env (110 mm × 220 mm), Custom Size.

120V: $8\frac{1}{2} \times 14$, $8\frac{1}{2} \times 11$, $5\frac{1}{2} \times 8\frac{1}{2}$, $7\frac{1}{4} \times 10\frac{1}{2}$, 8×13 , $8\frac{1}{2} \times 13$, $8\frac{1}{4} \times 13$, A4 (210 mm × 297 mm), B5 JIS (182 mm × 257 mm), A5 (148 mm × 210 mm), B6 JIS (128 mm × 182 mm), A6 (105 mm × 148 mm), 16K (195 mm × 267 mm), $4\frac{1}{8} \times 9\frac{1}{2}$, $3\frac{7}{8} \times 7\frac{1}{2}$, C5 Env (162 mm × 229mm), C6 Env (114 mm × 162 mm), DL Env (110 mm × 220 mm), Custom Size.

 **Note** Default:

- **220-240V**: A4 (210 mm × 297 mm)
- **120V**: 8¹/₂" × 11"

 The initial paper size is applied when the paper size is not specified in the print data.**❖ Edge to Edge Print**

You can print on the complete area of a sheet leaving no border on any edge.

- Off
- On

❖ Duplex

You can specify whether or not to print on both sides of a sheet.

- Off
- Short Edge Bind
- Long Edge Bind

 **Note** Default: Off This menu appears only when the optional duplex unit is installed.**❖ Rotate by 180 Degrees**

You can select whether or not to rotate the image by 180 degrees when printing.

- On
- Off

 **Note** Default: Off**❖ Blank Page Print**

You can specify whether or not to print blank pages.

- Do not print
- Print

 **Note** Default: Print

❖ Letterhead Setting

You can select the letterhead printing mode.

- Off
- Auto Detect
- On (Always)

Note

Default: Off

❖ Bypass Tray Priority

When the different paper size or type is specified from the driver, you can specify which setting is given priority to, printer setting or command.

- Driver/Command
- Machine Settings

Note

Default: Driver/Command

5

❖ Tray Switching

Specify the printer to change printing to the suitable tray, when printer driver specifies different paper size or type from the current tray.

- Off
- On

Note

Default: Off

❖ PCL Menu

You can set conditions when using PCL for printing.

❖ Orientation

You can select the page orientation.

- Portrait
- Landscape

Note

Default: Portrait

❖ Form Lines

You can specify the number of lines per page between 5 and 128.

Note

Default:

- **220-240V**: 60
- **120V**: 64

❖ Font Source

You can set the location of the default font.

- Resident
- RAM
- HDD
- SD
- SD Font Download

Note

- Default: Resident
- 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 optional hard disk.
- When you select **[SD]**, you can select only fonts for downloaded to the SD card.
- When you select **[SD Font Download]**, you can select only fonts for downloaded to the SD card without the optional hard disk.

❖ Font Number

You can specify the ID of the default font you want to use.

- 0 to 63 (Internal)
- 1 to 63 (Download)

❖ Point Size

You can specify the point size you want to use for the default font between 4 and 999.75 in 0.25 increments.

Note

- Default: 12.00 points
- This setting is effective only for a variable-space font.

❖ Font Pitch

You can specify the number of characters per inch you want to use for the default font between 0.44 and 99.99 in 0.01 increments.

Note

- Default: 10.00 pitch
- This setting is effective only for fixed-space fonts.

❖ **Symbol Set**

You can specify the character set for the default font. Available sets are as follows:

Roman-8, ISO L1, ISO L2, ISO L5, PC-8, PC-8 D/N, PC-850, PC-852, PC8-TK, Win L1, Win L2, Win L5, Desktop, PS Text, VN Intl, VN US, MS Publ, Math-8, PS Math, VN Math, Pifont, Legal, ISO 4, ISO 6, ISO 11, ISO 15, ISO 17, ISO 21, ISO 60, ISO 69, Win 3.0

Note

Default: PC-8

❖ **Courier Font**

You can select a courier-type font.

- Regular
- Dark

Note

Default: Regular

5

❖ **Ext. A4 Width**

You can extend the width of the printable area of A4 sheets reducing side margin width.

- Off
- On

Note

Default: Off

❖ **Append CR to LF**

You can specify whether or not to append a CR code to each LF code to print text data clearly.

- Off
- On

Note

Default: Off

❖ **Resolution**

You can specify the print resolution in dots per inch.

- 300 dpi
- 600 dpi

Note

Default: 600 dpi

❖ PS Menu

You can set conditions when using Postscript for printing.

❖ Data Format

You can select the data format.

- Binary
- TBCP

This setting is effective when using a parallel, USB, or EtherTalk connection. When you use a parallel or USB connection, the print job is canceled if binary data is sent from the printer driver.

When you use 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.

Note

Default: TBCP

5

❖ Resolution

You can select the resolution.

- 600dpi Fast
- 600dpi Standard
- 1200dpi

Note

Default: 600dpi Fast

❖ Colour Setting

You can make an RGB setting.

- None
- Fine
- Super Fine

Note

Default: Super Fine

❖ Colour Profile

You can select the color profile.

- Auto
- Presentation
- Solid Colour
- Photographic
- User Setting

Note

Default: Auto

❖ PDF Menu

You can set conditions when using PDF printing.

❖ Change PDF Password

You can specify the password for the PDF file executing PDF Direct Print.

Important

If you do not set a PDF password, this menu does not appear.

Note

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

You can set a group password specified using DeskTopBinder Lite.

Important

If you do not set a PDF group password, this menu does not appear.

Note

When you use a group password, the optional data protection unit must be installed.

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.

Default: no password set

❖ Resolution

You can select the resolution for the PDF file executing PDF Direct Print.

- 600dpi Fast
- 600dpi Standard
- 1200dpi

Note

Default: 600dpi Fast

❖ Colour Setting

You can make an RGB setting for the PDF file executing PDF Direct Print.

- None
- Fine
- Super Fine

Note

Default: Super Fine

❖ Colour Profile

You can select the color profile for the PDF file executing PDF Direct Print.

- Auto
- Presentation
- Solid Colour
- Photographic
- User Setting

Note

Default: Auto

Security Options Menu

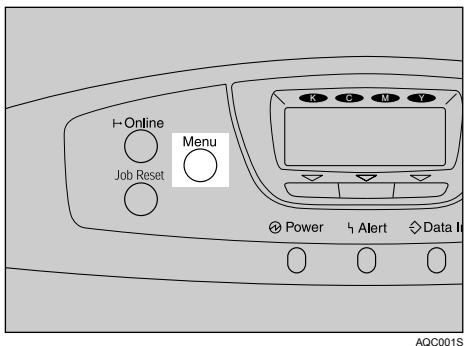
You can specify security settings.

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

Changing the Security Options menu

Follow the procedure below to change the Erase All Memory.

1 Press the [Menu] key.



5

The menu appears.

2 Press the [\blacktriangle] or [\blacktriangledown] key to display [Security Options], and then press the [OK] key.

3 Press the [\blacktriangle] or [\blacktriangledown] key to display [Extended Security], and then press the [OK] key.

4 Press the [\blacktriangle] or [\blacktriangledown] key to display [Erase All Memory], and then press the [OK] key.

5 Press the [\blacktriangle] or [\blacktriangledown] key to select the erase method, and then press the [OK] key.
When you select [Random Numbers], enter overwrite times.
All memories will be erased.

6 When the confirmation screen appears, press the [Exit] key.
Message appears.

7 Turn off the power.

Security Options menu parameters

This section explains parameters that can be set on the Security Options menu.

❖ Extended Security

❖ Driver Encryption Key

You can specify the driver encryption key.

❖ Encrypt Address Book

You can select whether or not to encrypt the data in the address book.

❖ Service Mode Lock

You can select whether or not to enter into service mode.

- On
- Off

Note

Default: Off

❖ Firmware Version

Displays the firmware version installed on this printer.

❖ Network Security Level

You can specify the network level.

- Level 0
- Level 1
- Level 2

Note

Default: Level 0

5

❖ Auto Erase Memory Setting

This function is available when the Optional Overwrite Security Unit is installed. Selects whether or not to automatically delete memory, and select deletion method and time when you do.

- On
 - HD Erase Method: NSA, DoD, Random Numbers
 - No. of Overwrites: between 1 - 9
- Off

❖ Erase All Memory

Deletes all data inside the memory. Select the deletion method, and then set the overwrite times.

❖ HD Erase Method

- NSA
- DoD
- Random Numbers

❖ No. of Overwrites

between 1 - 9

❖ Transfer Log Setting

You can select whether or not to send the log.

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

Note

Default: Off

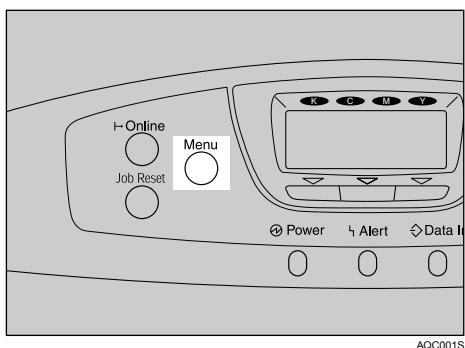
Host Interface Menu

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.

Changing the Host Interface menu

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

1 Press the **[Menu]** key.



5

The menu screen appears.

2 Press the **[▲]** or **[▼]** key to display **[Host Interface]**, and then press the **[OK]** key.

3 Press the **[▲]** or **[▼]** key to display **[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.

Wait one second. The **[Host Interface]** menu appears.

5 Press the **[Menu]** key.

The initial screen appears.

Host Interface menu parameters

This section explains parameters that can be set on the Host Interface menu.

❖ I/O Buffer

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

- 128 KB
- 256 KB

 **Note**

Default: 128 KB

❖ I/O Timeout

You can set 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.

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

 **Note**

Default: 15 seconds

❖ Network

You can make network-related settings.

 **Important**

This menu appears only when the optional 802.11 interface unit is installed.

 **Reference**

For details, see “Configuration”, Hardware Guide.

❖ Machine IPv4 Address

You can select whether to set the IPv4 address automatically or manually.

- Auto-Obtain (DHCP)

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

- Specify

You can specify the IPv4 address.

 **Note**

Default: 011.022.033.044

- Sub-net Mask

You can specify the subnet mask.

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

5

 **Note**

Default: 000.000.000.000

- Gateway Address

You can specify the gateway address.

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

 **Note**

Default: 000.000.000.000

❖ IPv6 Stateless Setting

You can enable or disable IPv6.

- Effective
- Invalid

 **Note**

Default: Effective

❖ NW Frame Type

You can select the frame type for NetWare.

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

 **Note**

Default: Auto Select

❖ Effective Protocol

You can select the effective protocol.

- IPv4
Effective, Invalid

✎ Note

Default: Effective

- IPv6
Effective, Invalid

✎ Note

Default: Invalid

- NetWare
Effective, Invalid

✎ Note

Default: Effective

- SMB
Effective, Invalid

✎ Note

Default: Effective

- AppleTalk
Effective, Invalid

✎ Note

Default: Effective

❖ Ethernet Speed

You can select the network speed to operate the printer.

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

✎ Note

Default: Auto Select

❖ LAN Type

You can select Ethernet or IEEE 802.11b for LAN Type.

This menu appears only when the optional 802.11 interface unit is installed.

- Ethernet
- IEEE 802.11b

✎ Note

Default: Ethernet

❖ IEEE 802.11b

You can make settings for wireless LAN. This menu appears only when the optional 802.11b interface unit is installed.

❖ Communication Mode

You can select the transmission mode for IEEE 802.11b.

- 802.11 Ad hoc
- Infrastructure
- Ad hoc

Note

- Default: 802.11 Ad hoc
- Communication Mode can also be set using a Web Image Monitor. For details, see Web Image Monitor Help.

❖ SSID Setting

You can set an SSID in the infrastructure mode and the 802.11 Ad hoc mode.

Note

- Default: blank (ASSID)
- Select [?] to enter [I] for the SSID. Also, [¥] appears when printing the configuration page, read it as [I].
- Characters used are ASCII 0x20-0x7e (32 bytes).
- An SSID is set automatically to the nearest access point if no SSID has been set.
- If no SSID has been set for the 802.11 ad hoc mode, an SSID is set automatically and the same SSID is used for the 802.11 ad hoc mode and the infrastructure mode.
- If blank is specified in SSID for 802.11b adhoc mode or adhoc mode, "ASSID" appears.
- An SSID can also be set using Web Image Monitor. For details, see Web Image Monitor Help.

❖ Channel

You can select channels: 1-14 (**220-240V**)/1-11 (**120V**).

Note

- Default: 11 (**220-240V** and **120V**)

❖ Security Method

You can enable or disable encryption. You can also specify the security type when the encryption is enabled.

- Off
- WEP
Hex:10/26,ASCII:5/13 Digits
- WPA
Encryption Method (TKIP, COMP(AES)), Authentication Method (WPA-PSK, WPA(802.1X))

Note

- Default: Off
- The WEP key can be entered using a hexadecimal number or an ASCII character sequence.
- The WPA-PSK can be entered using an ASCII character sequence.
- When using 64 bit WEP, up to 10 hexadecimal or 5 ASCII characters can be entered. When using 128 bit WEP, up to 26 hexadecimal or 13 ASCII characters can be entered.
- The WEP key can also be set using Web Image Monitor. For details, see Web Image Monitor Help.

❖ Wireless LAN Signal

You can check the signal strength when using LAN.

❖ Communication Speed

You can select the transmission speed for IEEE 802.11b.

- Auto
- 11Mbps Fixed
- 5.5Mbps Fixed
- 2Mbps Fixed
- 1Mbps Fixed

Note

- Default: Auto

❖ Restore Defaults

Reset the wireless LAN to default.

❖ USB Setting

You can make setting for USB Host interface.

This menu appears only when the optional USB Host interface unit is installed.

- Auto
- Full Speed

Note

- Default: Auto

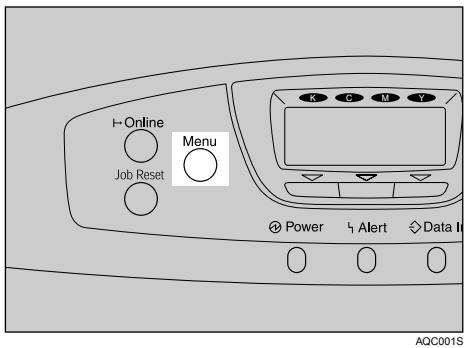
Language Menu

You can set language displayed on the menu.

Changing the language menu

Follow the procedure below to change the language.

1 Press the **[Menu]** key.



5

The menu screen appears.

2 Press the **[▲]** or **[▼]** key to display **[Language]**, and then press the **[OK]** key.
3 Press the **[▲]** or **[▼]** key to select the language, and then press the **[OK]** key.

Wait one second. The **[Language]** menu screen appears.

4 Press the **[Menu]** key.

The initial screen appears.

Language menu parameters

You can select the language you use. Available languages are as follows:

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

 **Note**

Default: English

6. Monitoring and Configuring the Printer

Using Web Image Monitor

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

❖ 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 e-mail notification 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 5.5 SP2 or higher
Firefox 1.0 or higher
- Mac OS:
Firefox 1.0 or higher
Safari 1.0, 1.2, 2.0(412.2) or higher

 **Note**

- Safari cannot be used on Mac OS X 10.4.1.
- If the previous versions of the Web browser above are used or JavaScript and cookies are not enabled with the Web browser used, display and operation problems may occur.
- If you are using a proxy server, change the Web browser settings. Contact your network administrator for information about the settings.
- The previous page may not appear even after the back button of a Web browser is clicked. If this happens, click the refresh button of a Web browser.
- Updating the printer information is not automatically performed. Click [**Refresh**] in the display area to update the printer information.
- We recommend using Web Image Monitor in the same network.
- You cannot access to the printer from outside the firewall.
- When using the printer under DHCP, the IPv4 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 IPv4 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, consult your network administrator.
- When using the SSL encryption protocol, enter "https://(printer's address)". Internet Explorer must be installed on your computer. Use the most recent available version. We recommend Internet Explorer 6.0 or later.
- When you are using Firefox, fonts and colors may be different, or tables may be out of shape.

Displaying Top Page

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

1 Start your Web browser.

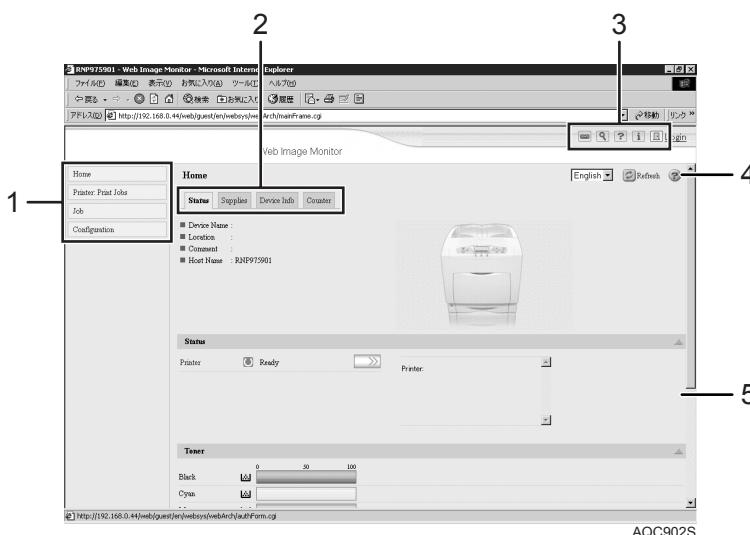
2 Enter “[http://\(printer's address\)/*](http://(printer's address)/)” in the address bar of a Web browser.

Top Page of Web Image Monitor appears.

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://\(printer's address\)/*](https://(printer's address)/*)”.

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 appears.

3. Header area

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

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

Reference

For details the printer's host name has been registered on the DNS or WINS server, see p.323 “Using DHCP”.

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.

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

When user authentication is set

Login (using Web Image Monitor)

Follow the procedure below to log on when user authentication is set.

1 Click [Login].

2 Enter a login user name and pass word, and then click [Login].

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

 **Note**

- For user code authentication, enter a user code in **[User Name]**, and then click **[OK]**.
- The procedure may differ depending on the Web browser used.

Log Off (using Web Image Monitor)

6

Click **[Logout]** to log off.

 **Note**

- When you log on and made the setting, always click **[Logout]**.

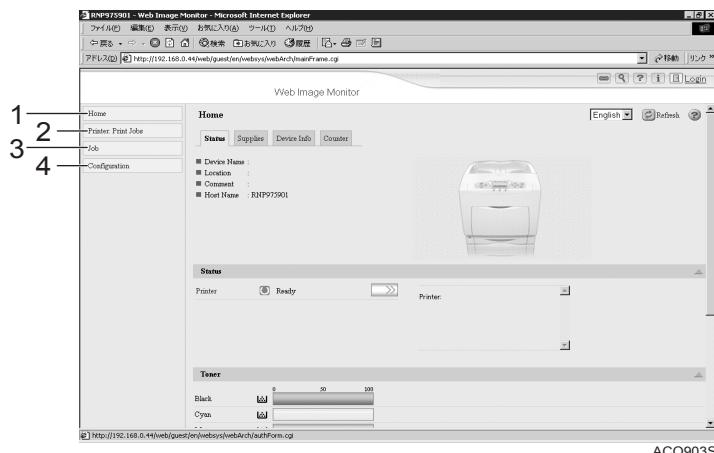
About Menu and Mode

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

Displayed items may differ depending on the printers.

❖ About Guest Mode

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



ACQ903S

6

1. Home

The **[Status]**, **[Configuration]**, **[Counter]**, and **[Inquiry]** tab are displayed. Details of the tab menu are displayed on the work area.

2. Printer: Print Jobs

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

3. Job

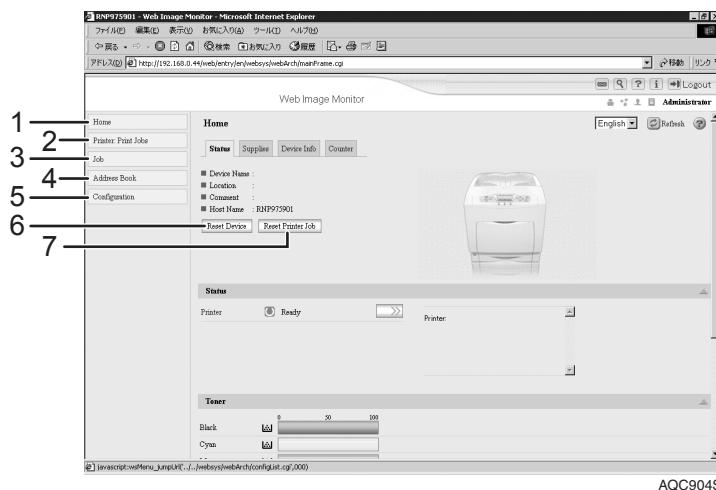
Display all print files.

4. Configuration

Display current printer and network settings.

❖ Administrator Mode

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



6

1. Home

The **[Status]**, **[Configuration]**, **[Counter]**, and **[Inquiry]** tab are displayed. Details of the tab menu are displayed on the work area.

2. Printer: Print Jobs

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

3. Job

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.

Access in the Administrator Mode

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

1 On Top Page, click **[Login]**.

The dialog box for entering the user name and password appears.

2 Enter your user name and password, and then click **[OK]**.

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

Displaying Web Image Monitor Help

When using Help for the first time, clicking either **[Help]** in the header area or the icon marked “?” in the display area makes the following screen appear, in which you can view Help in two different ways, as shown below:

❖ Viewing Help on our Web site

Downloading 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.

Note

- By clicking **[Help]** in the header area, the contents of Help appear.
- By clicking “?”, 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 location, and then decompress the file.

To view the downloaded Web Image Monitor Help, set the path to the location of the decompressed file.

6

Linking the URL of the Help File to the **[Help]** Button.

You can link the URL of the help file on a computer or Web server to the **[Help]** button.

- 1** Log on to Web Image Monitor in the administrator mode.
- 2** In the menu area, click **[Configuration]**.
- 3** Click **[Webpage]**.
- 4** In the **[Help URL]** box, enter the URL of the help file.

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 **[Apply]**.

Using SmartDeviceMonitor for Admin

Using SmartDeviceMonitor for Admin, you can monitor the network printers. Also, you can change the configuration of the network interface board using TCP/IP or IPX/SPX.

Important

IPv6 cannot be used on this function.

❖ **Protocol stack provided with Operating System**

- Windows 95/98/Me
 - TCP/IP
 - IPX/SPX
 - NetWare
 - NetWare Client32 for Windows 95
 - IntraNetWare Client for Windows 95
 - Novell Client for Windows 95/98/Me
- Windows 2000
 - TCP/IP
 - IPX/SPX
 - NetWare
 - Novell Client for Windows NT/2000/XP
- Windows Server 2003
 - TCP/IP
 - IPX/SPX
- Windows XP
 - TCP/IP
 - IPX/SPX
 - Novell Client for Windows NT/2000/XP
- Windows NT 4.0
 - TCP/IP
 - IPX/SPX
 - Client Service for NetWare
 - NetWare Client32 for Windows NT
 - IntraNetWare Client for Windows NT
 - Novell Client for Windows NT/2000/XP

❖ Available operations

The following functions are available:

- Printer Information function
 - Display the network settings and detailed information of the printer.
 - Display the number of pages printed under each user code.
 - Display the status of print jobs sent from computers.
 - Change the printer network settings.
- Device Settings function
 - Lock some of the setting items on the control panel so that they cannot be changed using the control panel.
 - Select type of paper loaded in the paper trays.
- Energy Saver function
 - Enable or disable the Energy Saver mode.
- System Status function
 - Display the information such as when paper is depleted during printing on a computer.
- Groups function
 - Monitor multiple printers at the same time. When there are multiple printers to manage, you can create groups and classify the printers to facilitate management.
 - You can customize printer status according to groups, and send status notification e-mail to a computer.

6

Installing SmartDeviceMonitor for Admin

Follow the procedure below to install SmartDeviceMonitor for Admin.

1 Quit all applications currently running.

2 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

3 Select an interface language, and then click [OK].

The default interface language is English.

4 Click [SmartDeviceMonitor for Admin] installation, and then click [Next >].

5 The software license agreement appears in the [License Agreement] dialog box.

After reading through its contents, click [I accept the agreement.] if you agree, and then click [Next >].

6 Follow the instructions on the screen.

A message appears when the installation is complete.

7 Click [OK]. **Note**

- Auto Run may not work under certain operating system settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.
- If you are required to restart the computer after installing SmartDeviceMonitor for Admin, restart the computer and continue the configuration.
- SmartDeviceMonitor for Admin supports following languages: Czech, Danish, German, English, Spanish, French, Italian, Hungarian, Dutch, Norwegian, Polish, Portuguese, Finnish, Swedish, Chinese Simple and Chinese Traditional.

Changing the Network Interface Board Configuration

Follow the procedure below to change the network interface board configuration using SmartDeviceMonitor for Admin.

6**1** Start SmartDeviceMonitor for Admin.**2** On the [Group] menu, point to [Search Device<TCP/IP>], and then click [TCP/IP], [IPX/SPX] or [TCP/IP SNMPv3]. A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using TCP/IP SNMPv3, enter the user authentication.

3 In the list, select a printer whose configuration you want to change.**4** On the [Tools] menu, click [NIB Setup Tool].

A Web browser opens and the dialog box for entering the user name and password for the Web Image Monitor administrator appears.

NIB Setup Tool starts when the network interface board is default. Follow the instruction on the screen.

5 Enter the login user name and password, and then click [Login].

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

6 Configure settings using Web Image Monitor.**7** Click [Logout].**8** Quit Web Image Monitor.**9** Quit SmartDeviceMonitor for Admin. **Reference**

For details about Web Image Monitor, see p.173 "Using Web Image Monitor".

Locking the Menus on the Printer's Control Panel

Follow the procedure below to lock the menus on the printer's control panel.

- 1** Start SmartDeviceMonitor for Admin.
- 2** On the [Group] menu, point to [Search Device<TCP/IP>], and then click [TCP/IP], [IPX/SPX] or [TCP/IP SNMPv3].
A list of printers using the selected protocol appears.
Select the protocol of the printer whose configuration you want to change.
If you are using TCP/IP SNMPv3, enter the user authentication.
- 3** Select a printer.
- 4** On the [Tools] menu, point to [Device Settings], and then click [Lock Operation Panel Menu].
A Web browser opens and the dialog box for entering the password for the Web Image Monitor administrator appears.
- 5** Enter the user name and password, and then click [Login].
For details about the user name and password, consult your network administrator.
The [System] page of Web Image Monitor appears.
- 6** Enter required setting items, click [OK].
- 7** Click [Logout].
- 8** Quit Web Image Monitor.
- 9** Quit SmartDeviceMonitor for Admin.

Reference

For details about setting items, see Help in the [Device Settings] on [Configuration] page.

6

Changing the Paper Type

Follow the procedure below to change the paper type.

- 1** Start SmartDeviceMonitor for Admin.
- 2** On the [Group] menu, point to [Search Device<TCP/IP>], and then click [TCP/IP], [IPX/SPX] or [TCP/IP SNMPv3].
A list of printers using the selected protocol appears.
Select the protocol of the printer whose configuration you want to change.
If you are using TCP/IP SNMPv3, enter the user authentication.

- 3** In the list, select a printer whose configuration you want to change.
- 4** On the [Tools] menu, point to [Device Settings], and then click [Select Paper Type].
A Web browser opens and the dialog box for entering the password for the Web Image Monitor administrator appears.
- 5** Enter the user name and password, and then click [Login].
For details about the login user name and password, consult your network administrator.
The [Paper] page appears.
- 6** Select a paper type in the [Paper Type] list for each tray.
- 7** Enter required setting items, click [OK].
- 8** Click [Logout].
- 9** Quit Web Image Monitor.
- 10** Quit SmartDeviceMonitor for Admin.

6

Reference

For details about setting items, see Help in the [Device Settings] on [Configuration] page.

Managing User Information

Follow the procedure below to manage the user's information using SmartDeviceMonitor for Admin.

Prints jobs can be managed and functions restricted by user codes.

Starting User Management Tool

Follow the procedure below to start User Management Tool.

- 1** Start SmartDeviceMonitor for Admin.
- 2** On the [Group] menu, point to [Search Device<TCP/IP>], and then click [TCP/IP], [IPX/SPX] or [TCP/IP SNMPv3].
A list of printers using the selected protocol appears.
Select the protocol of the printer whose configuration you want to change.
If you are using TCP/IP SNMPv3, enter the user authentication.
- 3** In the list, select a printer you want to manage.
- 4** On the [Tools] menu, click [User Management Tool].
The dialog box for entering the user name and password appears.

5 Enter the user name and password, and then click [OK].

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

User Management Tool starts.

🔍 Reference

For details about User Management Tool, see SmartDeviceMonitor for Admin Help.

Displaying the Number of Sheets Printed

Follow the procedure below to display the number of sheets printed under each User Code.

1 Start SmartDeviceMonitor for Admin.

2 Click the [User Counter Information] tab of User Management Tool.

The number of pages printed under each User Code appears.

3 Click [Exit] on the [File] menu to quit User Management Tool.

Exporting the information about the number of pages printed

Follow the procedure below to export the information of the number of pages printed under each User Code as a “.csv” file.

1 Start SmartDeviceMonitor for Admin.

2 Click the [User Counter Information] tab of User Management Tool.

3 On the [File] menu, click [Export User Statistics List].

4 Specify the save location and file name, and then click [Save].

5 Click [Exit] on the [File] menu to quit User Management Tool.

Resetting the number of pages printed to 0.

Follow the procedure below to reset the number of pages printed under each User Code to 0.

1 Start SmartDeviceMonitor for Admin .

2 Click the [User Counter Information] tab of User Management Tool.

3 Click the user whose information you want to reset.

4 On the [Edit] menu, click [Reset User Counters].

5 Select the check box of the items you want to reset, and then click [OK].

A confirmation message appears.

6 Click [OK].

The number of pages printed is reset to 0.

7 On the [Edit] menu, click [Apply Settings].

Changes are applied to information on the [User Counter Information] tab.

8 Click [Exit] on the [File] menu to quit User Management Tool.

Restricting Functions

Follow the procedure below to restrict use of individual functions.

1 Start SmartDeviceMonitor for Admin.

2 Click the [User Counter Information] tab of User Management Tool.

3 On the [Edit] menu of User Management Tool, click [Restrict Access To Device].

6

4 Select the check box of the functions you want to restrict.

5 Click [OK].

A confirmation message appears.

6 Click [Yes].

The settings are applied.

Setting Applicable Functions to New Users

Follow the procedure below to add new users and set functions applicable to them.

1 Start SmartDeviceMonitor for Admin.

2 Click the [Access Control List] tab of User Management Tool.

3 On the [Edit] menu, click [Add New User].

4 Enter the User Code and user name.

5 Select the check box of the functions applicable to the new user.

If the check boxes are unavailable, there is no restriction to use that function. For details, see SmartDeviceMonitor for Admin Help.

6 Click [OK].

The new user is added.

7 On the [Edit] menu, click [Apply Settings].

The settings are applied.

8 Click [Edit] on the [File] menu to quit User Management Tool.

Reference

For details about setting restrictions, see SmartDeviceMonitor for Admin Help.

Configuring the Energy Saver Mode

Follow the procedure below to configure Energy Saver mode.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device<TCP/IP>], and then click [TCP/IP], [IPX/SPX] or [TCP/IP SNMPv3].

A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using TCP/IP SNMPv3, enter the user authentication.

3 Select the printer whose settings you want to make.

To make settings for all printers in the selected group, select no printer.

4 On the [Group] menu, point to [Energy Save Mode], point to [Set Individually] to make the settings for only the selected printer or point to [Set By Group] to make the settings for all printers in the selected group, and then click [On] or [Off].

5 Quit SmartDeviceMonitor for Admin.

Reference

For details about the setting value for Energy Saver mode, see SmartDeviceMonitor for Admin Help.

Setting a Password

Follow the procedure below to set a password.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device<TCP/IP>], and then click [TCP/IP], [IPX/SPX] or [TCP/IP SNMPv3].

A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using TCP/IP SNMPv3, enter the user authentication.

3 In the list, select a printer whose configuration you want to change.

4 On the [Tools] menu, click [NIB Setup Tool].

A Web browser opens and the dialog box for entering the password for the Web Image Monitor administrator appears.

NIB Setup Tool starts when the network interface board is default. Follow the instruction on the screen.

5 Enter the user name and password, and then click [Login].

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

Top Page of Web Image Monitor appears.

6 Click [Configuration].

7 Click [Device Settings].

8 Click [Program/Change Administrator], and then change the settings.

9 Quit Web Image Monitor.

10 Quit SmartDeviceMonitor for Admin.

6

Checking the Printer Status

Follow the procedure below to check printer status.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device<TCP/IP>], and then click [TCP/IP], [IPX/SPX] or [TCP/IP SNMPv3].

The status of printers is indicated by icons in the list.

If you are using TCP/IP SNMPv3, enter the user authentication.

3 To obtain status details, click the printer in the list, and then click [Open] on the [Device] menu.

The printer status appears in the dialog box.

4 Click [System] or [Printer].

The printer status appears in the dialog box.

5 Quit SmartDeviceMonitor for Admin.

 **Note**

For details about status icons and items in the dialog box, see SmartDeviceMonitor for Admin Help.

Changing Names and Comments

Follow the procedure below to change the names and comments of the printer.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device<TCP/IP>], and then click [TCP/IP], [IPX/SPX] or [TCP/IP SNMPv3]. A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

The status of printers is indicated by icons in the list.

If you are using TCP/IP SNMPv3, enter the user authentication.

3 Select a printer in the list.

4 On the [Tools] menu, click [NIB Setup Tool].

A Web browser opens and the dialog box for entering the password for the Web Image Monitor administrator appears.

NIB Setup Tool starts when the network interface board is default. Follow the instruction on the screen.

5 Enter the user name and password, and then click [Login].

Top Page of Web Image Monitor appears.

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

6 Click [Configuration].

7 Click [System] on the [Device Settings] area, and then change the settings.

8 Click [OK].

- In the [Device Name] box, enter a device name on the printer using up to 31 characters.
- In the [Comment] box, enter a comment on the printer using up to 31 characters.

9 Quit Web Image Monitor.

10 Quit SmartDeviceMonitor for Admin.

Viewing and Deleting Spool Print Jobs

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device<TCP/IP>], and then click [TCP/IP], [IPX/SPX] or [TCP/IP SNMPv3].

A list of printer using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using TCP/IP SNMP v3, enter the user authentication.

3 Select a printer in the list, and then click [Spool Printing Job List(Printer)] on the [Tools] menu.

A Web browser opens and the dialog box for entering the login user name and password for the Web Image Monitor administrator appears.

4 Enter the login user name and password, and then click [Login].

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

6

Spool Printing Job List appears in the Web Image Monitor.

To delete the Spool Printing Job, select the document you want to delete and then click [Delete].

 **Note**

To display Spool Printing Job List, spool must be set to [Enable] on Web Image Monitor in advance.

For details, see Help in the Spool Printing Job List area.

Using SmartDeviceMonitor for Client

To view the status of printers using SmartDeviceMonitor for Client, configure SmartDeviceMonitor for Client beforehand.

Monitoring Printers

Follow the procedure below to monitor the printer using SmartDeviceMonitor for Client.

1 Right-click the SmartDeviceMonitor for Client icon, point to [Properties], and then click [Option...].

The [SmartDeviceMonitor for Client -Options] dialog box appears.

2 Select the printer you want to monitor, and then select the [To Be Monitored] check box in the Monitoring Information Settings area.

To display the printer status in the task tray using the SmartDeviceMonitor for Client icon, select the [Displayed on Task Bar] check box.

3 Click [OK].

The dialog box closes and the configured printer is monitored.

 **Note**

For details about status icons, see SmartDeviceMonitor for Client Help.

6

Checking the Printer Status

Follow the procedure below to check printer status using SmartDeviceMonitor for Client.

1 Start SmartDeviceMonitor for Client.

2 For status details, right-click the SmartDeviceMonitor for Client icon, and then click the printer.

The printer status appears in the dialog box.

 **Note**

For details about items in the dialog box, see SmartDeviceMonitor for Client Help.

When Using IPP with SmartDeviceMonitor for Client

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

- The network printer can only receive one print job from SmartDeviceMonitor for Client at a time. While the network printer is printing, another user cannot access it until the job is finished. In this case, SmartDeviceMonitor for Client tries to access the network printer until the retry interval expires.
- If SmartDeviceMonitor for Client cannot access the network printer and times out, it will stop sending the print job. In this case, you should cancel the paused status from the print queue window. SmartDeviceMonitor for Client will resume access to the network printer. You can delete the print job from the print queue window, but canceling a print job printed by the network printer might cause the next job sent from another user to be incorrectly printed.
- If a print job sent from SmartDeviceMonitor for Client is interrupted and the network printer cancels the job because something went wrong, send the print job again.
- Print jobs sent from another computer do not appear in the print queue window, regardless of protocol.
- If various users send print jobs using SmartDeviceMonitor for Client to network printers, the printing order might not be the same as that in which the jobs were sent.
- An IP address cannot be used for the IPP port name because the IP address is used for the SmartDeviceMonitor for Client port name.
- When setting SSL, a protocol for encrypted communication, under environment which server authentication is issued, enter “[https://\(printer's address\)/*](https://(printer's 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]**.

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.

You can be notified of the following events:

- Service call.
- Toner cartridge is empty.
- Toner cartridge is nearly empty.
- Photoconductor unit needs replacing.
- Photoconductor unit will need replacing soon.
- Waste toner bottle is full.
- Waste toner bottle is nearly full.
- Stapler has no staples.
- Fusing unit needs replacing.
- Fusing unit will need replacing soon.
- Maintenance kit needs replacing.
- Paper has jammed.
- Open door is detected.
- Paper tray is empty.
- Paper tray error.
- Output paper tray is full.
- Unit connection error.
- Duplex unit error.
- Hard disk drive is full.
- Development Unit needs replacing.
- Development Unit will need replacing soon.
- Transfer Unit needs replacing.

1 On the [System] menu, set [Notify by Email] to [On] using the control panel.
The default is [On].

2 Open a Web browser, and then enter “[http://\(printer's address\)/*](http://(printer's address)/)” in the address bar.
Top Page of Web Image Monitor appears.

When setting SSL, a protocol for encrypted communication, under environment which server authentication is issued, enter “[https://\(printer's address\)/*](https://(printer's address)/*)”.

3 Click [Login] on Top Page of Web Image Monitor.
The window for entering the login user name and password appears.

4 Enter the user name and password, and then click [OK].
For details about the login user name and password, consult your network administrator.

- 5** In the menu area, click [Configuration].
- 6** Click [Device Settings], and then click [E-mail].

- 7** 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 Reception 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 on-demand e-mail notification.

6

- 8** Click [OK].

 **Reference**

For details, see p.151 “System Menu”.

Auto E-mail Notification

- 1** Click [Configuration] in the menu area, and then click [Auto E-mail Notification] on the [Device Settings] area.

The dialog box for making notification settings appears.

- 2** Make the following settings:

- Items in Notification Message column: 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, [Edit] next to [Detailed Settings of Each Item].

- 3** Click [OK].

- 4** Click [Logout].

- 5** Quit Web Image Monitor.

On-demand E-mail Notification

1 Click [Configuration] in the menu area, and then click [On-demand E-mail Notification] on the [Device Settings] area.

The dialog box for making notification settings appears.

2 Click [Edit].

3 Make the following settings:

- Notification Subject: Enter a text string to be added to the subject line of return e-mails.
- Items in Notification Message column: You can set this according to your needs, for example, the printer's location, service representative contact information.
- Items in the Access Restriction to Information column: Select whether to restrict accesses based on a specific category of information.
- 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.

4 Click [OK].

5 Click [Logout].

6 Quit Web Image Monitor.

6

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.

① In the menu area, click [E-mail]

② Make the following settings:

- 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.

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

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

[Encryption]-[Disable]: If the authentication method is PLAIN or LOGIN.

- ③ Click **[OK]**.
- ④ Click **[Logout]**.
- ⑤ Quit Web Image Monitor.

❖ POP before SMTP Authentication

Select whether to log on to the POP3 server before sending e-mail.

- ① In the menu area, click **[E-mail]**.
- ② Make the following settings:
 - 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 on to the POP server.
- ③ Click **[OK]**.
- ④ Click **[Logout]**.
- ⑤ Quit Web Image Monitor.

Sending On-demand E-mail

To use on-demand e-mail notification, perform the following configuration tasks in Web Image Monitor.

- ① In the menu area, click **[E-mail]**.
- ② Make the following settings:
 - E-mail Notification E-mail Address: Enter the address using alphanumeric characters.
 - Receive E-mail Notification: Specify whether to use on-demand e-mail notification.
 - E-mail Notification User Name: Enter the administrator's user name as the mail originator name.
 - E-mail Notification Password: Enter the password of the mail notification user.
- ③ Click **[OK]**.
- ④ Click **[Logout]**.
- ⑤ Quit Web Image Monitor.

❖ Format of on-demand e-mail messages

To use mail notification, you need to send an on-demand e-mail message to this printer.

Using your mail software, enter the following:

Item	Description
Subject (Referred to as Subject)	Enter a request regarding the device. For details, see the table below.
From (Referred to as From)	Specify a valid mail address. The device information will be sent to the address specified here.

Note

- A mail message must be within 1 MB in size.
- E-mail may be incomplete if sent immediately after power on.

❖ Subject field

Format: devicestatus?parametername=parameter[&=parameter][&=parameter]...

Note

- The Subject field is case-insensitive.
- Parameter names can be written in any order.

❖ Subject field coding examples

Coding example	Action
devicestatus?request=sysconfig&format=text&lang=en	The device's system configuration information will be sent in an English text format.
devicestatus?request=sysconfig	The device's system configuration information will be sent in a preset format and language.

❖ Parameters

Parameter	Meaning	Default
request	Information to be obtained	Mandatory
format	Mail format	Mail will be sent in the format preset for each mail address.
lang	Language for mail body	Mail will be sent in the language preset for each mail address.

❖ **Parameters specifying the information to be obtained**

Information to be obtained	Parameter
System configuration information	sysconfig
Network configuration information	netconfig
Printer configuration information	prtconfig
Supplies information	supply
Device status information	status

❖ **Parameters specifying the mail format**

Mail format	Parameter
Text	text
HTML	html
XML	xml

 **Note**

HTML and XML can be selected for subject field, but output is text only.

6

❖ **Parameters specifying the language for mail body**

Language for mail body	Parameter
English	en
French	fr
German	de
Italian	it
Spanish	es
Dutch	nl
Danish	da
Finnish	fi
Norwegian	no
Portuguese	pt
Czech	cs
Polish	pl
Hungarian	hu

Remote Maintenance by telnet

Important

- Remote Maintenance should be password-protected so that access is allowed to administrators only.
- The password is the same as the one of Web Image Monitor administrator. When the password is changed using "mshell", other passwords change also.
- Some commands cannot be used depending on your printer.

Using telnet

Follow the procedure below to use telnet.

Important

- Only one user at a time can log on to perform remote maintenance.

1 Use the IP address or the host name of the printer to start telnet.

% telnet "IP_address"

2 Enter your user name and password.

Contact your network administrator for information about the settings.

3 Enter a command.

4 Quit telnet.

msh> logout

The configuration message about saving the changes appears.

5 Enter "yes" to save the changes, and then press the [OK] key.

If you do not want to save the changes, enter "no", and then press the [OK] key. To make further changes, enter "return" at the command line, and then press the [OK] key.

Note

- If the message "Can not write NVRAM information" appears, the changes are not saved. Repeat the procedure above.
- When the changes are saved, the network interface board is reset automatically with that changes.
- When the network interface board resets, the print job in print process will be printed. However, print jobs in queue will be canceled.

access

Use the “access” command to view and configure access control. You can also specify two or more access ranges.

❖ View settings

```
msh> access
```

❖ IPv4 Configuration

```
msh> access [<x>] range "start-address end-address"
```

- [<x>] represents a target number between 1 and 5. (Up to five access ranges can be registered and selected.)

Example: to specify accessible IPv4 addresses between 192.168.0.10 and 192.168.0.20:

```
msh> access 1 range6 192.168.0.10 192.168.0.20
```

❖ IPv4 Configuration

```
msh> access [<x>] range "start-address end-address"
```

- [<x>] represents a target number between 1 and 5. (Up to five access ranges can be registered and selected.)

Example: to specify accessible IPv4 addresses between 192.168.0.10 and 192.168.0.20:

```
msh> access 1 range6
```

❖ IPv6 Configuration

```
msh> access [<x>] range6 "start-address end-address"
```

- [<x>] represents a target number between 1 and 5. (Up to five access ranges can be registered and selected.)

Example: to specify accessible IPv6 addresses between 2001:DB8::100 and 2001:DB8::200.

```
msh> access 1 range6 2001:DB8::100 2001:DB8::200
```

❖ IPv6 access mask Configuration

```
msh> access [<x>] mask6 "base-address prefixlen"
```

- [<x>] represents a target number between 1 and 5. (Up to five access ranges can be registered and selected.)

Example: to specify accessible IPv6 addresses to 2001:DB8::/32

```
msh> access 1 mask6 2001:DB8:: 32
```

❖ Access control initialization

```
msh> access flush
```

- Use the “flush” command to restore the default settings so that all access ranges become “0.0.0.0” for IPv4, and “::” for IPv6.

Note

- The access range restricts computers from use of the machine by IP address. If you do not need to restrict printing, make the setting “0.0.0.0” for IPv4, and “::” for IPv6.
- Valid ranges must be from lower (start address) to higher (end address).
- If you are running IPv4 or IPv6, up to five access ranges can be registered and selected.
- IPv6 can register and select the range and the mask for each access ranges.
- IPv6 mask ranges between 1 - 128 can be selected.
- Up to five access ranges can be specified. The entry is invalid if the target number is omitted.
- You cannot send print jobs, or access Web Image Monitor and dprintf from a restricted IP address.

appletalk

Use the “appletalk” command to view and configure Appletalk parameters.

❖ View settings

msh> appletalk

- [2] means “active” and [0] means “inactive”.
- The default is [2].

6

❖ Changing PAP timeout configuration

msh> appletalk ptimeout value > 0

- Timeout value becomes effective.

msh> appletalk ptimeout value = 0

- Timeout value becomes ineffective.

autonet

Use the “autonet” command to view and configure AutoNet parameters.

❖ View settings

The following command displays the current AutoNet settings:

msh> autonet

❖ Configuration

You can configure AutoNet settings.

msh> autonet {on|off}

- {on} means “active” and {off} means “inactive”.

❖ Current interface priority configuration display

msh> autonet priority

❖ Interface priority configuration

msh> autonet priority "interface_name"

- You can give interface's AutoNet parameter priority.
- Priority settings are available when multiple interfaces are installed.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface configured
ether	Ethernet interface
wlan	IEEE 802.11b interface

>Note

- If an interface is not selected, the current interface connection settings remain in effect.

Reference

For details about AutoNet, refer to autonet parameters.

bonjour(rendezvous)

6

Use the "bonjour(rendezvous)" command to display bonjour(rendezvous)-related settings.

❖ View settings

Bonjour settings are displayed.

msh> bonjour

❖ Bonjour service name setting

You can specify the bonjour service name.

msh> bonjour cname "computer name"

- The computer name can be entered using up to 63 alphanumeric characters.

❖ Bonjour Installation location information setting

You can enter information about the location where the printer is installed.

msh> bonjour location "location"

- Information about location can be entered using up to 32 alphanumeric characters.

❖ Setting order of priority for each protocol

- diprint

msh> bonjour diprint [0-99]

- lpr

msh> bonjour lpr [0-99]

- ipp

msh> bonjour ipp [0-99]

You can specify the order of priority for "diprint", "lpr", and "ipp". Smaller numbers indicate higher priority.

❖ IP TTL setting

msh> bonjour ip ttl {1-255}

You can specify the IP TTL (the number of routers a packet can pass through).

>Note

- The default is 255.

❖ Resetting the computer name and location information

You can reset the computer name and location information.

msh> bonjour clear {cname | location}

- cname

Reset the computer name. The default computer name will be displayed when the computer is restarted.

- location

Reset the location information. The previous location information will be deleted.

❖ Interface configuration

msh> bonjour linklocal "interface_name"

- If many types of interface are installed, configure the interface that communicates with linklocal address.
- If you do not specify an interface, the Ethernet interface is automatically selected.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface	Interface configured
ether	Ethernet interface
wlan	IEEE 802.11b interface

btconfig

Use the "btconfig" command to make Bluetooth settings.

❖ View settings

Bluetooth settings are displayed.

msh> btconfig

❖ Mode settings

You can set the Bluetooth operation mode to {private} or {public}.

msh> btconfig {private | public}

- The default is {public}.

devicename

Use the “devicename” command to display and change the printer name.

❖ **View settings**

```
msh> devicename
```

❖ **Printer name configuration**

```
msh> devicename name "string"
```

- Enter a printer name using up to 31 alphanumeric characters.
- Set single names for each printer.

❖ **Printer name initialization**

```
msh> device name clearname
```

- Reset the printer name to its default.

dhcp

6

Use the “dhcp” command to configure DHCP settings.

❖ **View settings**

The following command displays the current DHCP settings.

```
msh> dhcp
```

❖ **Configuration**

You can configure DHCP.

```
msh> dhcp "interface_name" {on|off}
```

- Click {on} to enable DHCP. Click {off} to disable DHCP.
- If the DNS server address and domain name are obtained from DHCP, be sure to click {on}.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface configured
ether	Ethernet interface
wlan	IEEE 802.11b interface

❖ **Current interface priority configuration display**

```
msh> dhcp priority
```

❖ **Interface priority configuration**

```
msh> dhcp priority "interface_name"
```

- You can select which interface has DHCP parameter priority.
- Priority settings are available when multiple interfaces are installed.

❖ DNS server address selection

msh> dhcp dnsaddr {dhcp | static}

- Specify whether to obtain the DNS server address from the DHCP server or use the address set by a user.
- To obtain the DNS server address from the DHCP server, specify “dhcp”. To use the address set by a user, specify “static”.

❖ Domain name selection

msh> dhcp domainname {dhcp | static}

- Specify whether to obtain the domain name from the DNS server or use the domain name set by a user.
- To obtain the domain name from the DHCP server, specify “dhcp”. To use the domain name set by a user, specify “static”.

diprint

The direct printing port enables direct printing from a network-connected computer. Use the “diprint” command to change direct printing port settings.

6

❖ View settings

The following command displays the current direct printing port settings:

msh> diprint

Example output:

```
port 9100
timeout=300(sec)
bidirect on
con multi
apl async
```

- The “port” specifies the port number of the direct printing port.
- The “bidirect” setting indicates whether the direct printing port is bidirectional or not.

❖ Setting timeout

msh> diprint timeout [30~65535]

- You can specify the timeout interval to use when the printer is expecting data from the network.
- The default is 300 seconds.

❖ Specifying the number of concurrent connections

msh> diprint conn {multi | single}

- The above command specifies the number of concurrent diprint connections. Specify “multi” for multiple connections or “single” for a single connection.
- The default is “multi”.

❖ Specifying the timeout and APL termination settings

msh> diprint apl {async | sync}

- Specifies whether or not to synchronize the timeout and APL termination.

dns

Use the “dns” command to configure or display DNS (Domain Name System) settings.

❖ View settings

The following command displays current DNS settings:

msh> dns

❖ IPv4 DNS server configuration

The following command enables or disables the IPv4 DNS server address:

msh> dns “number” server “server address”

The following command displays a configuration using the IP address 192.168.15.16 on a DNS 1 server:

msh> dns 1 server 192.168.15.16

- You can register IPv4 DNS Server address.
- You can register up to three IPv4 DNS server numbers.
- You cannot use “255.255.255.255” as the DNS server address.

6

❖ IPv6 DNS server configuration

The following command enables or disables the IPv6 DNS server address:

msh> dns “number” server6 “server address”

- You can register IPv6 DNS Server address.
- You can register up to three IPv6 DNS server numbers.

❖ Dynamic DNS function setting

msh> dns “interface_name” ddns {on|off}

- You can set the dynamic DNS function “active” or “inactive”.
- {on} means “active” and {off} means “inactive”.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface configured
ether	Ethernet interface
wlan	IEEE 802.11b interface

❖ Specifying the record overlap operation

msh> dns overlap {update|add}

- You can specify operations performed when records overlap.
- update
To delete old records and register new records.
- add
To add new records and store the old records.
- When CNAME overlaps, it is always changed, irrespective of settings.

❖ CNAME registration

msh> dns cname {on|off}

- You can specify whether to register CNAME.
- {on} means “active” and {off} means “inactive”.
- The CNAME registered is the default name beginning with rnp. CNAME cannot be changed.

❖ A records registration

msh> dns arecord {dhcp|own}

- {dhcp}
You can specify the method of registering an A record when the dynamic DNS function is enabled and DHCP is used.
- {own}
To register an A record using the printer as the DNS client.
The DNS server address and the domain name already designated are used for the registration.

6

❖ Record updating interval settings

msh> dns interval "time"

- You can specify the interval after which records are updated when using the dynamic DNS function.
- The updating interval is specified hourly. It can be entered between 1 and 255 hours.
- The default is 24 hours.

domainname

Use the “domainname” command to display or configure the domain name settings.

You can configure the Ethernet interface or IEEE 802.11b interface.

❖ View settings

The following command displays the current domain name:

msh> domainname

❖ Interface domain configuration

```
msh> domainname "interface_name"
```

❖ Setting the Domain Name

```
msh> domainname "interface_name" name "domain name"
```

- A domain name can be entered using up to 63 alphanumeric characters.
- The Ethernet interface and IEEE 802.11b interface will have the same domain name.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface	Interface set
ether	Ethernet interface
wlan	IEEE 802.11b interface

❖ Deleting the Domain Name

```
msh> domainname "interface_name" clear name
```

help

6

Use the “help” command to display the available command list and the procedures for using those commands.

❖ Command list display

```
msh> help
```

❖ Display of procedure for using commands

```
msh> help "command_name"
```

hostname

Use the “hostname” command to change the printer name.

❖ View settings

```
msh> hostname
```

❖ IPv4 Configuration

```
msh> hostname "interface_name" "printer_name"
```

- Enter the printer name using up to 63 alphanumeric characters.
- You cannot use a printer name starting with “RNP” or “rnp”.
- The Ethernet interface and IEEE 802.11b interface will have the same printer name.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface configured
ether	Ethernet interface
wlan	IEEE 802.11b interface

❖ Initializing the printer name for each interface

```
msh>hostname "interface_name" clear "name"
```

ifconfig

Use the "ifconfig" command to view and configure TCP/IP (IP address, subnet mask, broadcast address, default gateway address) for the printer.

❖ View settings

```
msh> ifconfig
```

❖ IPv4 Configuration

```
msh> ifconfig "interface_name" "parameter" "address"
```

- If you did not enter an interface name, it is automatically set to the Ethernet interface.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface configured
ether	Ethernet Interface
wlan	IEEE 802.11b Interface

The following explains how to configure an IPv4 address 192.168.15.16 on Ethernet interface.

```
msh> ifconfig ether 192.168.15.16
```

❖ IPv6 Configuration

```
msh> ifconfig ether inet6 "interface_name" "prefixlen"
```

The following explains how to configure a IPv6 address to 2001:DB8::100 with prefix length 64 on the Ethernet interface.

```
msh> ifconfig ether inet6 2001:DB8::100 64
```

❖ Netmask configuration

```
msh> ifconfig "interface_name" netmask "address"
```

The following explains how to configure a subnet mask 255.255.255.0 on Ethernet interface.

```
msh> ifconfig ether netmask 255.255.255.0
```

❖ Broadcast address configuration

```
msh> ifconfig "interface_name" broadcast "address"
```

❖ Changing the Interface

```
msh> ifconfig "interface" up
```

- You can specify either the Ethernet interface or IEEE 802.11b interface when using the optional IEEE 802.11b interface unit.

Note

- To get the above addresses, contact your network administrator.
- Use the default configuration if you cannot obtain setting addresses.
- The IP address, subnet mask and broadcast address are the same as that for the ethernet interface and IEEE 802.11b interface.
- TCP/IP configuration is the same for both Ethernet and IEEE 802.11 interface. If interfaces are changed, the new interface inherits the configuration.
- Use “0x” as the initial two letters of a hexadecimal address.

info

Use the “info” command to display printer information such as paper tray, output tray, and printer language.

❖ Printer information display

msh> info

Reference

6

For details about displayed contents, see p.231 “Getting Printer Information over the Network”.

ipp

Use the “ipp” command to view and configure IPP settings.

❖ Viewing settings

The following command displays the current IPP settings:

msh> ipp

❖ IPP timeout configuration

Specify how many seconds the computer waits before canceling an interrupted print job. The time can be entered between 30 to 65535 seconds.

msh> ipp timeout [30 - 65535]

❖ IPP user authorization configuration

Use IPP user authorization to restrict users to print with IPP. The default is “off”.

msh> ipp auth {basic|digest|off}

- User authorization settings are “basic” and “digest”.
- Use “off” to remove a user's authorization.
- If user authorization is specified, register a user name. You can register up to 10 users.

❖ IPP user configuration

Configure IPP users according to the following messages:

msh> ipp user

The following message appears:

msh> Input user number (1 to 10):

Enter the number, user name, and password.

msh> IPP user name:user1

msh> IPP password:*****

After configuring the settings, the following message appears:

User configuration changed.

ipv6

Use the “ipv6” command to display and configure IPv6 settings.

❖ View Setting

msh> ipv6

❖ IPv6 stateless address

msh> ipv6 stateless {on|off}

6

lpr

Use the “lpr” command to view and configure LPR settings.

❖ View Setting

msh> lpr

❖ Checking host name when deleting the job

msh> lpr chkhost {on|off}

netware

Use the “netware” command to configure the NetWare settings such as the print server name or file server name.

❖ Netware Printer Server Names

msh> netware pname “character string”

- Enter the NetWare print server name using up to 47 characters.

❖ Netware File Server Names

msh> netware fname

- Enter the NetWare file server name using up to 47 characters.

❖ Encap type

```
msh> netware encaps {802.3|802.2|snap|ethernet2|auto}
```

❖ Remote Printer Number

```
msh> netware rnum {0-254}
```

❖ Timeout

```
msh> netware timeout {3-255}
```

❖ Printer server mode

```
msh> netware mode pserver
```

```
msh> netware mode ps
```

❖ Remote printer mode

```
msh> netware mode rprinter
```

```
msh> netware mode rp
```

❖ NDS context name

```
msh> netware context character string
```

6

❖ SAP interval

```
msh> netware "sap_interval"
```

❖ Setting login mode for file server

```
msh> netware login server
```

❖ Setting login mode for NDS tree

```
msh> netware login tree
```

❖ Setting login mode for NDS tree name

```
msh> netware tree "NDS name"
```

❖ File transfer protocol

```
msh> netware trans {ipv4pri|ipxpri|ipv4|ipx}
```

- If you do not specify the protocol, the current setting is displayed.

Protocol	Set Protocol
ipv4pri	IPv4+IPX(IPV4)
ipxpri	IPv4+IPX(IPX)
ipv4	IPv4
ipx	IPX

passwd

Use the “passwd” command to change the remote maintenance password.

❖ Changing the Password

msh> passwd

- Enter the current password.
- Enter the new password.
- Renter the new password to confirm it.

❖ Changing the Password of the administrators using the Supervisor

msh> passwd {Administrator ID}

- Enter the new password.
- Renter the new password to confirm it.

Note

- Be sure not to forget or lose the password.
- The password can be entered using up to 32 alphanumeric characters. Passwords are case-sensitive. For example, “R” is not the same as “r”.

prnlog

Use the “prnlog” command to obtain printer log information.

❖ Print logs display

msh> prnlog

- Displays 16 previous print jobs.

msh> prnlog “ID Number”

- Specify the ID number of the displayed print log information to display additional details about a print job.

Note

- For details about displayed contents, see p.231 “Getting Printer Information over the Network”.

route

Use the “route” command to view andcontrol the routing table.

❖ All route information display

msh> route get “destination”

- Specify the IPv4 address to destination.
“0.0.0.0” cannot be specified as destination address.

❖ Enabling/disabling Specified IPv4 Destination

```
msh> route active {host|net} "destination" {on | off}
```

- You can turn the specified destination on or off. Host becomes the default setting.

❖ Adding IPv4 Routing Table

```
msh> route add {host|net} "destination" "gateway"
```

- Adds a host or network route to "destination", and a gateway address to "gateway" in the table.
- Specify the IPv4 address to destination and gateway.
- Host becomes the default setting.

❖ Setting Default IPv4 Gateway

```
msh> route add default gateway
```

❖ Deleting specified IPv4 destination from Routing Table

```
msh> route delete {host|net} "destination"
```

- Host becomes the default setting.
- IPv4 address of destination can be specified.

6

❖ Setting IPv6 Default Gateway

```
msh> route add6 default gateway
```

❖ Adding a specified IPv6 destination to Routing Table

```
msh> route add6 {destination} prefixlen gateway
```

- Specify the IPv6 address to destination and gateway.

❖ Deleting a specified IPv6 destination from Routing Table

```
msh> route delete6 {destination} prefixlen
```

- Specify the IPv6 address to destination and gateway.

❖ Display information about a specified IPv6 route information

```
msh> route get6 {destination}
```

- Specify the IPv6 address to destination and gateway.

❖ Enabling/disabling a specified IPv6 destination

```
msh> route active6 {destination} prefixlen {on | off}
```

❖ Route initialization

```
msh> route flush
```

 **Note**

- The maximum number of IPv4 routing tables is 16.
- The maximum number of IPv6 routing tables is 2.
- Set a gateway address when communicating with devices on an external network.
- The same gateway address is shared by all interfaces.
- "Prefixlen" is a number between 1 and 128.

set

Use the "set" command to set the protocol information display "active" or "inactive".

❖ View settings

The following command displays protocol information (active/inactive).

```
msh> set ipv4
msh> set ipv6
msh> set appletalk
msh> set netware
msh> set smb
msh> set protocol
```

- When protocol is specified, information about TCP/IP, AppleTalk, Netware, SCSI print, PictBridge and SMB appears.

```
msh> set parallel
msh> set usb
msh> set bluetooth
msh> set lpr
msh> set lpr6
msh> set ftp
msh> set ftp6
msh> set rsh
msh> set rsh6
msh> set diprint
msh> set diprint6
msh> set web
msh> set snmp
msh> set ssl
msh> set ssl16
msh> set nrs
msh> set rfu
```

```
msh> set rfu6
msh> set ipp
msh> set ipp6
msh> set http
msh> set http6
msh> set bonjour
msh> set nbt
msh> set ssdp
msh> set ssh
msh> set sftp
msh> set sftp6
```

❖ Configuration

- Enter “up”to enable protocol, and enter “down” to disable protocol. You can set the protocol to “active” or “inactive”.

```
msh> set ipv4 {up | down}
```

- If you disable IPv4, you cannot use remote access after logging off. If you did this by mistake, you can use the control panel to enable remote access via IPv4.
- Disabling IPv4 also disables lpr, ftp, rsh, diprint, web, snmp, ssl, ipp, http, bonjour, and sftp

```
msh> set ipv6 {up | down}
```

- If you disable IPv6, you cannot use remote access after logging off. If you did this by mistake, you can use the control panel to enable remote access via IPv6.
- Disabling IPv6 also disables lpr6, ftp6, rsh6, diprint6, ssl6, ipp6, http6, and sftp6.

```
msh> set appletalk {up | down}
msh> set netware {up | down}
msh> set smb {up | down}
msh> set lpr {up | down}
msh> set lpr6 {up | down}
msh> set ftp {up | down}
msh> set ftp6 {up | down}
msh> set rsh {up | down}
msh> set rsh6 {up | down}
msh> set diprint {up | down}
msh> set diprint6 {up | down}
msh> set web {up | down}
msh> set snmp {up | down}
```

```

msh> set ssl {up | down}
msh> set ssl6 {up | down}
• If Secured Sockets Layer (SSL, an encryption protocol) function is not
available for the printer, you cannot use the function by enabling it.

msh> set nrs {up | down}
msh> set rfu {up | down}
msh> set rfu6 {up | down}
msh> set ipp {up | down}
msh> set ipp6 {up | down}
msh> set http {up | down}
msh> set http6 {up | down}
msh> set bonjour {up | down}
msh> set ssh {up | down}
msh> set ssdp {up | down}
msh> set nbt {up | down}
msh> set sftp {up | down}
msh> set sftp6 {up | down}

```

show

Use the “show” command to display network interface board configuration settings.

❖ View settings

```

msh> show
• If “-p” is added, you can view settings one by one.

```

🔍 Reference

For details about the information displayed, see p.239 “Configuring the Network Interface Board”.

slp

Use “slp” command to view and configure SLP settings.

```

msh> slp ttl "ttl_val"

```

- You can search the NetWare server using SLP in the PureIP environment of NetWare 5/5.1 and Netware 6/6.5. Using the “slp” command, you can configure the value of TTL which can be used by SLP multicast packet.
- The default value of TTL is 1. A search is executed only within a local segment. If the router does not support multicast, the settings are not available even if the TTL value is increased.
- The acceptable TTL value is between 1 and 255.

smb

Use the “smb” command to configure or delete the computer or workgroup name for SMB.

❖ Computer Name settings

```
msh> smb comp "computer name"
```

- Set computer name using up to 15 characters. Names beginning with “RNP” or “rnp” cannot be entered.

❖ Working Group Name settings

```
msh> smb group "work group name"
```

- Set workgroup name using up to 15 characters

❖ Comment settings

```
msh> smb comment "comment"
```

- Set comment using up to 31 characters

❖ Notify print job completion

```
msh> smb notif {on | off}
```

- To notify print job completion, specify “on”. Otherwise, specify “off”

❖ Deleting Computer Name

```
msh> smb clear comp
```

❖ Deleting Group Name

```
msh> smb clear group
```

❖ Deleting Comment

```
msh> smb clear comment
```

❖ View Protocol

```
msh> smb protocol
```

snmp

Use the “snmp” command to display and edit SNMP configuration settings such as the community name.

❖ View settings

msh> snmp

- Default access settings 1 is as follows:
Community name:public
IPv4 address:0.0.0.0
IPv6 address:::
IPX address:00000000:000000000000
Access type:read-only
Effective Protocol:IPv4/IPv6/IPX
- Default access settings 2 is as follows:
Community name:admin
IPv4 address:0.0.0.0
IPv6 address:::
IPX address:00000000:000000000000
Access type:read-write
Effective Protocol:IPv4/IPv6/IPX
- If “-p” is added, you can view settings one by one.
- To display the current community, specify its registration number.

❖ Display

msh> snmp ?

❖ Community name configuration

msh> snmp “number” name “community_name”

- You can configure ten SNMP access settings numbered 1-10.
- The printer cannot be accessed from SmartDeviceMonitor for Admin or SmartDeviceMonitor for Client if “public” is not registered in numbers 1-10. When changing the community name, use SmartDeviceMonitor for Admin and SNMP Setup Tool to correspond with printer settings.
- The community name can be entered using up to 15 characters.

❖ Deleting community name

msh> snmp “number” clear name

❖ Access type configuration

msh> snmp "number" type "access_type"

Access type	Type of access permission
no	not accessible
read	read only
write	read and write
trap	user is notified of trapmessages

❖ Protocol configuration

msh> snmp {ipv4|ipv6|ipx} {on|off}

- Use the following command to set protocols “active” or “inactive”: If you set a protocol “inactive”, all access settings for that protocol are disabled.
- Specify “ipv4” for IPv4, “ipv6” for IPv6, or “ipx” for IPX/SPX.
- {on} means “active” and {off} means “inactive”.
- All protocols cannot be turned off concurrently.

❖ Configuration of protocol for each registration number

6

msh> snmp "number" active {ipv4|ipv6|ipx} {on|off}

- To change the protocol of access settings, use the following command. However, if you have disabled a protocol with the above command, activating it here has no effect.

❖ Access configuration

msh> snmp "number" {ipv4|ipv6|ipx} "address"

- You can configure a host address according to the protocol used.
- The network interface board accepts requests only from hosts that have IPv4, IPv6, and IPX addresses with access types of “read-only” or “read-write”. Enter “0” to have network interface board accept requests from any host without requiring a specific type of access.
- Enter a host address to deliver “trap” access type information to.
- To specify IPv4 or IPv6, enter “ipv4” or “ipv6” followed by a space, and then the IPv4 or IPv6 address.
- To specify IPX/SPX, enter “ipx” followed by a space, the IPX address followed by a decimal, and then the MAC address of the network interface board.

❖ sysLocation configuration

msh> snmp location

❖ Deleting sysLocation

msh> snmp clear location

❖ **sysContact setting**

```
msh> snmp contact
```

❖ **Deleting sysContact**

```
msh> snmp clear contact
```

❖ **SNMP v1v2 function configuration**

```
msh> snmp v1v2 {on|off}
```

- Specify “on” to enable, and “off” to disable.

❖ **SNMP v3 function configuration**

```
msh> snmp v3 {on|off}
```

- Specify “on” to enable, and “off” to disable.

❖ **SNMP TRAP configuration**

```
msh> snmp trap {v1|v2|v3} {on|off}
```

- Specify “on” to enable, and “off” to disable.

❖ **Remote Configuration Authorization configuration**

```
msh> snmp remote {on|off}
```

- Specify “on” to enable, and “off” to disable the SNMP v1v2 setting.

❖ **SNMP v3 TRAP configuration display**

```
msh> snmp v3trap
```

```
msh> snmp v3trap {1-5}
```

- If a number from 1-5 is entered, settings are displayed for that number only.

❖ **Configuring a sending address for SNMP v3 TRAP**

```
msh> snmp v3trap {1-5} {ipv4|ipv6|ipx} "address"
```

❖ **Configuring a sending protocol for SNMP v3 TRAP**

```
msh> snmp v3trap {1-5} active {ipv4|ipv6|ipx} {on|off}
```

❖ **Configuring a user account for SNMP v3 TRAP**

```
msh> snmp v3trap {1-5} account "account_name"
```

- Enter an account name using up to 32 alphanumeric characters.

❖ **Deleting an SNMP v3 TRAP user account**

```
msh> snmp v3trap {1-5} clear account
```

❖ **Configuring an SNMP v3 encryption algorithm**

```
msh> snmp v3auth {md5|sha1}
```

❖ **Configuring SNMP v3 encryption**

```
msh> snmp v3priv {auto|on}
```

- Set “auto” for automatic encryption configuration
- Set “on” for mandatory encryption configuration.

sntp

The printer clock can be synchronized with a NTP server clock using Simple Network Time Protocol (SNTP). Use the “sntp” command to change SNTP settings.

❖ **View settings**

```
msh> sntp
```

❖ **NTP server address configuration**

You can specify the IP address of the NTP server.

```
msh> sntp server "IP_address"
```

❖ **Interval configuration**

```
msh> sntp interval "polling_time"
```

- You can specify the interval at which the printer synchronizes with the operator-specified NTP server. The default is 60 minutes.
- The interval can be entered from 0, or between 16 and 10,080 minutes.
- If you set 0, the printer synchronizes with the NTP server only when you turn the printer on. After that, the printer does not synchronize with the NTP server.

6

❖ **Time-zone configuration**

```
msh> sntp timezone "+/-hour_time"
```

- You can specify the time difference between the printer clock and NTP server clock. The values are between -12:00 and +13:00.

spoolsw

Use the “spoolsw” command to view and configure Job Spool settings.

You can only specify diprint, lpr, ipp, ftp, smband sftp protocol.

- The “spoolsw” command for configuring Job Spool settings is available only when the optional hard disk is installed.

❖ **View settings**

The Job Spool setting appears.

```
msh> spoolsw
```

❖ **Job Spool setting**

```
msh> spoolsw spool {on | off}
```

 **Note**

□ Specify “on” to enable Job Spool, or “off” to disable it.

❖ Resetting Job spool setting

msh> spoolsw clear job {on | off}

- When the printer power is cut during job spooling, this determines whether to reprint the spooled job.

❖ Protocol configuration

```
msh> spoolsw diprint {on | off}
msh> spoolsw lpr {on | off}
msh> spoolsw ipp {on | off}
msh> spoolsw smb {on | off}
msh> spoolsw ftp {on | off}
msh> spoolsw sftp {on|off}
```

- You can specify the settings for diprint, lpr, ipp, smb and sftp.

ssdp

Use the “ssdp” command to view and configure SSDP settings.

6

❖ View settings

msh> ssdp

❖ Setting effective time

msh> ssdp profile {1801-86400}

The default is 10800 seconds.

❖ Advertise packet TTL settings

msh> ssdp ttl {1-255}

The default is 4.

ssh

Use the “ssh” command to view and configure SSH settings.

❖ View settings

msh> ssh

❖ Data compression communication settings

msh> ssh compression {on|off}

The default is “on”.

❖ SSH/SFTP communication port setting

msh> ssh port {22, 1024-65535}

The default is 22.

❖ **SSH/SFTP communication timeout setting**

```
msh> ssh timeout {0-65535}
```

The default is 300.

❖ **SSH/SFTP communication login timeout setting**

```
msh> ssh logintimeout {0-65535}
```

The default is 300.

❖ **Setting an open key for SSH/SFTP**

```
msh> ssh genkey {512|768|1024} "character string"
```

Create an open key for SSH/SFTP communication.

Usable characters are ASCII 0x20-0x7e (32 bytes) other than “0”.

The default key length is 1024, and the character string is blank.

❖ **Deleting open key for ssh/sftp communication**

```
msh> ssh delkey
```

 **Note**

- If you do not specify a character string, current setting is displayed.

status

Use the “status” command to display the printer status.

❖ **Messages**

```
msh> status
```

 **Reference**

For details, see p.231 “Current Printer Status”.

syslog

Use the “syslog” command to display the information stored in the printer’s system log.

❖ **View message**

```
msh> syslog
```

 **Note**

- For details about the information displayed, see p.246 “System Log Information”.

upnp

Use the “upnp” command to display and configure the universal plug and play.

❖ **Public URL display**

msh> upnp url

❖ **Public URL configuration**

msh< upnp url “string”

- Enter the URL string in the character string.

web

Use the “web” command to display and configure parameters on Web Image Monitor.

❖ **View Settings**

msh> web

❖ **URL Configuration**

You can set URLs linked by clicking **[URL]** on Web Image Monitor.

Specify “1” or “2” for x as the number corresponding to the URL. Up to two URLs can be registered and specified.

msh> web url http://“The URL or IP address you want to register”/

❖ **Deleting URLs registered as link destinations**

msh> web x clear url

Specify “1” or “2” for x as the corresponding number to the URL.

❖ **Link name configuration**

You can enter the name for **[URL]** that appears on Web Image Monitor.

Specify “1” or “2” for x as the corresponding number to the link name.

msh> web name “Name you want to display”

❖ **Resetting URL names registered as link destinations**

msh> web x clear name

Specify “1” or “2” for x as the number corresponding to the link name.

❖ **Help URL Configuration**

You can set URLs linked by clicking **[Help]** or **[?]** on Web Image Monitor.

msh> web help http://“Help URL or IP address”/help/

❖ **Deleting Help URL**

msh> web clear help

wiconfig

Use the “wiconfig” command to make settings for IEEE 802.11b.

❖ View settings

msh> wiconfig

❖ View IEEE 802.11b settings

msh> wiconfig cardinfo

- If IEEE 802.11b is not working correctly, its information is not displayed.

❖ Configuration

msh> wiconfig “parameter”

Parameter	Value configured
mode {ap adhoc 802.11adhoc}	You can set the infrastructure mode (ap) , the 802.11 ad hoc mode (802.11adhoc), or the ad hoc mode (adhoc). The default is ad hoc mode.
ssid “ID value”	You can make settings for the SSID in the infrastructure mode. Usable characters are ASCII 0x20-0x7e (32 bytes). An SSID value is set automatically to the nearest access point if no setting is made. If no setting is made for the ad hoc mode, the same value as for the infrastructure mode or an ASSID value is automatically set. The default is blank.
channel frequency “channel no.”	You can enable or disable the WEP function. To enable the WEP function, specify [on]; to disable it, specify [off]. To start the WEP function, enter the correct WEP key. The default is “11”.
key “key value” val {1 2 3 4}	You can specify the WEP key when entering in hexadecimal. With a 64-bit WEP, you can use 10 digit hexadecimals. With a 128-bit WEP, you can use 26 digit hexadecimals. Up to four WEP keys can be registered. Specify the number to be registered with “val”. When a WEP is specified by key, the WEP specified by key phrase is overwritten. To use this function, set the same key number and WEP key for all ports that transmit data to each other. Put “0x” on the front of WEP key. You can omit the numbers with “val”. The key number is set to 1 when making these omissions. The default is blank.

Parameter	Value configured
keyphrase "phrase" val {1 2 3 4}	<p>You can specify the WEP key when entering in ASCII.</p> <p>With a 64-bit WEP, you can use 10 digit hexadecimals. With a 128-bit WEP, you can use 26 digit hexadecimals.</p> <p>Up to four WEP keys can be registered. Specify the number to be registered with "val".</p> <p>When a WEP is specified by key phrase, the WEP specified by key is overwritten.</p> <p>To use this function, set the same key number and WEP key for all ports that transmit data to each other.</p> <p>You can omit the numbers with "val". The key number is set to 1 when making these omissions.</p>
encval {1 2 3 4}	<p>You can specify which of the four WEP keys is used for packet encoding. "1" is set if a number is not specified.</p>
wepauth [open shared]	<p>You can set an authorization mode when using WEP. The specified value and authorized mode are as follows:</p> <p>open: open system authorized (default)</p> <p>shared: shared key authorized rate</p>
rate [auto 11m 5.5m 2m 1m]	<p>You can set the IEEE 802.11b transmitting speed.</p> <p>The speed you specify here is the speed at which data is sent. You can receive data at any speed.</p> <p>auto: automatically set (default)</p> <p>11m: 11 Mbps fixed</p> <p>5.5m: 5.5 Mbps fixed</p> <p>2m: 2 Mbps fixed</p> <p>1m: 1 Mbps fixed</p>
security {none wep wpa}	<p>You can specify the security mode.</p> <p>none: No encryption(default)</p> <p>wep: WEP encryption</p> <p>wpa: WPA encryption</p>
wpaenc {tkip ccmp}	<p>You can specify WPA encryption key when using WPA encryption.</p> <p>tkip: TKIP (default)</p> <p>ccmp: CCMP (AES)</p>
wpaauth {wpapsk wpa}	<p>You can specify the WPA authentication mode when using WPA encryption.</p> <p>wpapsk: WPA-PSK authentication(default)</p> <p>wpa: WPA(802.1X) authentication</p>

Parameter	Value configured
psk "character string"	You can specify the Pre-Shared key. Usable characters: ASCII 0x20-0x7e (8 to 63 bytes). The default is blank.
eap {tls ttls leap peap} {chap mschap mschapv2 pap md5 tls}	You can specify the EAP authentication type. tls: EAP-TLS (default) ttls: EAP-TTLS leap: LEAP peap: PEAP chap, mschap, mschapv2, pap, md5, or tls are settings for the phase 2 method, and must be set when using EAP-TTLS or PEAP. Do not make these settings when using other EAP authentication types. If you select EAP-TTLS, you can select chap, mschap, mschapv2, pap, or md5. If you select PEAP, you can select mschapv2 or tls.
username "character string"	You can specify the login user name for the Radius server. Usable characters: ASCII 0x20-0x7e(31 bytes) other than "@". The default is blank.
username2 "character string"	You can specify the phase 2 username for EAP-TTLS/PEAP phase 2 authentication. Usable characters: ASCII 0x20-0x7e (31 bytes) other than "@". The default is blank.
domain "character string"	You can specify the login domain name for the Radius server. Usable characters: ASCII 0x20-0x7e (31 bytes) other than "@". The default is blank.
password "character string"	You can specify the login password for the Radius server. Usable characters: ASCII 0x20-0x7e(128 bytes). The default is blank.
srvcert {on off}	You can set the server certificate. The default is "off".
imca {on off}	You can enable or disable the certificate when the intermediate certificate authority is present. The default is "off".
srvid "character string"	You can set the server ID and subdomain of the certificate server.

wins

Use the “wins” command to configure WINS server settings.

❖ Viewing settings

msh> wins

- If the IPv4 address obtained from DHCP differs from the WINS IPv4 address, the DHCP address is the valid address.

❖ Configuration

msh> wins “interface_name” {on | off}

- {on} means “active” and {off} means “inactive”.
- Be sure to specify the interface.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface configured
ether	Ethernet interface
wlan	IEEE 802.11b interface

❖ Address configuration

Use the following command to configure a WINS server IP address:

msh> wins “interface_name” {primary|secondary} “IP address”

- Use the “primary” command to configure a primary WINS server IPv4 address.
- Use the “secondary” command to configure a secondary WINS server IPv4 address.
- Do not use “255.255.255.255” as the IPv4 address.

❖ NBT (NetBIOS over TCP/IP) Scope ID Selection

You can specify the NBT scope ID.

msh> wins “interface_name” scope “scope ID”

- The scope ID can be entered using up to 31 alphanumeric characters.
- Be sure to specify the interface.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface configured
ether	Ethernet interface
wlan	IEEE 802.11b interface

SNMP

The SNMP agent operating on UDP and IPX is incorporated into the built-in Ethernet board and optional IEEE 802.11b interface unit of this printer.

Using the SNMP manager, you can get information about the printer.

Important

- If you changed the printer's community name, change the configuration of the connected computer accordingly, using SNMP Setup Tool. For details, see SNMP Setup Tool Help.

The default community names are **[public]** and **[admin]**. You can get MIB information using these community names.

❖ Start SNMP Setup Tool

- Windows 95/98/Me, Windows 2000, Windows NT 4.0:
Click the **[Start]** button.
Point to **[SmartDeviceMonitor for Admin]** on the **[Programs]** menu.
Click **[SNMP Setup Tool]**.
- Windows XP:
Click the **[Start]** button.
Point to **[SmartDeviceMonitor for Admin]** on the **[All Programs]** menu.
Click **[SNMP Setup Tool]**.

6

❖ Supported MIBs(SNMPv1/v2)

- MIB-II
- PrinterMIB
- HostResourceMIB
- RicohPrivateMIB

❖ Supported MIBs(SNMPv3)

- MIB-II
- PrinterMIB
- HostResourceMIB
- RicohPrivateMIB
- SNMP-FRAMEWORK-MIB
- SNMP-TARGET-MIB
- SNMP-NOTIFICATION-MIB
- SNMP-USER-BASED-SM-MIB
- SNMP-VIEW-BASED-ACM-MIB

Getting Printer Information over the Network

This section explains details of each item displayed in the printer status and information.

Current Printer Status

The printer status can be checked using the following commands:

- UNIX: Use the “lpq” command and “rsh”, “rcp”, “ftp” and “sftp” parameters.
- mshell: Use the “status” command.

Messages	Description
Access Restricted	The job was canceled because user have no authority.
Add staples (Booklet: Back)	The staple of booklet finisher (back) is exhausted.
Add staples (Booklet: Both)	The staple of booklet finisher is exhausted.
Add staples (Booklet: Front)	The staple of booklet finisher (front) is exhausted.
Adjusting...	The printer is initializing or calibrating.
Call Service Center	There is a malfunction in the printer.
Canceled	The job is reset.
Canceling Job...	The job is being reset.
Key Card/Counter not inserted	The printer is waiting for prepaid card or key.
Coin or amount not inserted	The printer is waiting for coin to be inserted.
Coin/Key Counter not inserted	The printer is waiting for coin or key counter.
Configuring...	Setting is being changed.
Paper Misfeed: ADF	The document feeder is open.
Cover Open: Duplex Unit	The cover of the duplex unit is open.
Cover Open: Finisher	The cover of Finisher is open.
Cover Open: Front	The front cover is open.
Cover Open: Front/Left	The front cover or left cover is open.
Cover Open: Top	The top cover is open.
Data Size Error	The data size error occurred.
Empty: Black Toner	The black toner cartridge is almost empty.
Empty: Cyan Toner	The cyan toner cartridge is almost empty.
Empty: Magenta Toner	The magenta toner cartridge is almost empty.
Empty: Yellow Toner	The yellow toner cartridge is almost empty.
Energy Saver Mode	The printer is in Energy Saver Mode.
Error	An error has occurred.

Messages	Description
Error at Printer: Red LED	An error has occurred.
Error in Printer	An error has occurred.
Error: Address Book	An error has occurred in the data of the address book.
Error: Command Transmission	An error has occurred in the printer.
Error: DIMM Value	A memory error occurred.
Error: Ethernet Board	An Ethernet board error has occurred.
Error: HDD Board	A hard disk drive board error has occurred.
Error: Memory Switch	A memory switch error has occurred.
Error: Optional Font	An error has occurred in the font file of the printer.
Error: Optional RAM	An error has occurred in the optional memory unit.
Error: Parallel I/F Board	An error has occurred in the parallel interface.
Error: PDL	An error has occurred in the page description language.
Error: USB Interface	An error has occurred in the USB interface.
Error: Wireless Card	Wireless card is not inserted during start up, or the IEEE 802.11b interface unit or the wireless card is taken out after start up.
Exceed Booklet Stapling Limit	The printing has exceeded the stapling limit of the booklet finisher.
Full: Finisher	Finisher tray is full.
Full: Finisher Shift Tray	Shift tray of Finisher is full.
Full: Finisher Shift Tray 1, 2	The shift tray 1 and 2 of Finisher are full.
Full: Finisher Upper Tray	The upper tray of Finisher is full.
Full: Hole Punch Receptacle	Punch Chip receptacle for hole punch is full.
Full: Waste Toner	Waste toner is full.
Hex Dump Mode	It is a hex dump mode.
Immed. Trans. not connected	It did not connect directly with the other party of the transmission.
Immediate Transmission Failed	An error has occurred while transmitting directly.
In Use: Copier	The copier is being used.
In Use: Fax	The fax is being used.
In Use: Finisher	Other functions is using Finisher.
In Use: Input Tray	Other functions is using the input tray.
In Use: Staple Unit	Other functions is using the staple unit.
Independent-supplier Toner	Toner that is not recommended is set.
Key Card not inserted	The printer is waiting for key card to be inserted.

Messages	Description
Key Card/Counter not inserted	The printer is waiting for key card or key counter to be inserted.
Key Counter not inserted	The printer is waiting for key counter to be left in it.
Loading Toner...	Toner is being supplied.
Low: Black Toner	The black toner cartridge is not set correctly, or toner is almost running out.
Low: Cyan Toner	The cyan toner cartridge is not set correctly, or toner is almost running out.
Low: Magenta Toner	The magenta toner cartridge is not set correctly, or toner is almost running out.
Low: Toner	The black toner cartridge is not set correctly, or toner is almost running out.
Low: Yellow Toner	The yellow toner cartridge is not set correctly, or toner is almost running out.
Malfunction: Booklet Processor	There is a problem with booklet finisher.
Malfunction: Ext. Charge Unit	There is a problem with external charge unit.
Malfunction: Finisher	There is a problem with Finisher.
Malfunction: Interposer	There is a problem with Interposer.
Malfunction: Output Tray	There is a problem with output tray.
Malfunction: Staple Unit	There is a problem with the staple unit.
Malfunction: Tray 1	There is a problem with tray 1.
Malfunction: Tray 2	There is a problem with tray 2.
Malfunction: Tray 3	There is a problem with tray 3.
Malfunction: Z-folding unit	There is a problem with the Z-fold unit.
Memory Low: Copy	Memory shortage has occurred while the copy was operating.
Memory Low: Data Storage	Memory shortage has occurred while the document was being accumulated.
Memory Low: Fax Scanning	Memory shortage has occurred while transmitting the fax.
Memory Low: Scanning	Memory shortage has occurred while the scanner was working.
Miscellaneous Error	Other error has occurred.
Mismatch: Paper Size	Indicated paper tray does not contain paper of selected size.
Mismatch: Paper Size and Type	Indicated paper tray does not contain paper of selected size and type.
Mismatch: Paper Type	Indicated paper tray does not contain paper of selected type.
Near Replacing: Black PCU	Prepare the new black photoconductor unit.

Messages	Description
Near Replacing: Color PCU	Prepare the new color photoconductor unit.
Near Replacing: Develop. Unit C	Prepare the new development unit (cyan).
Near Replacing: Develop. Unit K	Prepare the new development unit (black).
Near Replacing: Develop. Unit M	Prepare the new development unit (magenta).
Near Replacing: Develop. Unit Y	Prepare the new development unit (yellow).
Near Replacing: Fusing Unit	Prepare the new fusing unit.
Near Replacing: Maintenance Kit	Prepare the new maintenance kit.
Near Replacing: Transfer Unit	Prepare the new transfer unit.
Nearly Full: Waste Toner	Waste toner bottle is nearly full.
Need more Staples	Stapler has almost run out of staples.
No Paper: Interposer Tray	There is no paper in interposer unit.
No Paper: Selected Tray	There is no paper in specified tray.
No Paper: Tray 1	There is no paper in tray 1.
No Paper: Tray 2	There is no paper in tray 2.
No Paper: Tray 3	There is no paper in tray 3.
Not Detected: B2 Lever	B2 lever is not correctly set.
Not Detected: Black Toner	Black toner is not correctly set.
Not Detected: Cyan Toner	Cyan toner is not correctly set.
Not Detected: Develop. Unit (C)	The development unit (cyan) is not correctly set.
Not Detected: Develop. Unit (K)	The development unit (black) is not correctly set.
Not Detected: Develop. Unit (M)	The development unit (magenta) is not correctly set.
Not Detected: Develop. Unit (Y)	The development unit (yellow) is not correctly set.
Not Detected: Duplex Feed Unit	The duplex feed unit is not correctly set.
Not Detected: Finisher	Finisher is not correctly set.
Not Detected: Fusing Unit	The fusing unit is not correctly set.
Not Detected: Input Tray	The paper feed tray is not correctly set.
Not Detected: Interposer	Interposer unit is not correctly set.
Not Detected: Magenta Toner	Magenta toner is not correctly set.
Not Detected: PCU (C)	The photoconductor unit (cyan) is not correctly set.
Not Detected: PCU (K)	The photoconductor unit (black) is not correctly set.
Not Detected: PCU (M)	The photoconductor unit (magenta) is not correctly set.
Not Detected: PCU (Y)	The photoconductor unit (yellow) is not correctly set.
Not Detected: Transfer Unit	The transfer unit is not correctly set.

Messages	Description
Not Detected: Tray 1	Tray 1 is not correctly set.
Not Detected: Tray 2	Tray 2 is not correctly set.
Not Detected: Tray 3	Tray 3 is not correctly set.
Not Detected: WasteToner Bottle	Waste toner bottle is not correctly set.
Not Detected: Yellow Toner	Yellow toner is not correctly set.
Not Detected: Z-fold'g Internal	The Z-fold unit is not correctly set.
Not Reached, Data Deleted	Unreached job is deleted.
Not Reached, Data Stored	Unreached job is preserved.
Offline	Printer is offline.
Original on Exposure Glass	The original remains on the exposure glass.
Panel Off Mode	The printer is in Panel-Off mode.
Panel Off Mode>>Printing ava.	The printer is in Control Panel-Off mode.
Paper in Duplex Unit	The paper remains in the duplex unit.
Paper in Finisher	The paper remains in Finisher.
Paper Misfeed: ADF	The paper has jammed in Document Feeder.
Paper Misfeed: Duplex Unit	The paper has jammed in the duplex unit.
Paper Misfeed: Input Tray	The paper has jammed in the input tray.
Paper Misfeed: Internal/Output	The paper has jammed inside the printer.
Paper on Finisher Shift Tray 2	The paper remains in Finisher Shift Tray 2.
Paper on FinisherShiftTray1, 2	The paper remains in Finisher Shift Tray 1 and 2.
Prepaid Card not inserted	The printer is waiting for prepaid card to be inserted.
Print Complete	The print was completed.
Printing	Printing is in progress.
Processing	Data is being processed.
RC Gate Connection Error	Failed connection with RC Gate.
Ready	The printer is ready to print.
Replace Black PCU	It is time to replace the black photoconductor unit.
Replace Charger Kit	It is time to replace the charger kit.
Replace Cleaning Web	It is time to replace the Cleaning Web.
Replace PCU (Color)	It is time to replace the photoconductor unit (color).
Replace Develop. Unit	It is time to replace the development unit.
Replace Develop. Unit (Black)	It is time to replace the development unit (black).
Replace Develop. Unit (Color)	It is time to replace the development unit (color).
Replace Develop. Unit (Cyan)	It is time to replace the development unit (cyan).

Messages	Description
Replace Develop. Unit (Magenta)	It is time to replace the development unit (magenta).
Replace Develop. Unit (Yellow)	It is exchange time of the development unit (yellow).
Replace Fusing Unit	It is time to replace the fusing unit.
Replace Maintenance Kit	It is time to replace the maintenance kit.
Replace PCU	It is time to replace the photoconductor unit.
SD Card Authentication failed	SD card authentication failed.
Setting Remotely	The RDS setting is being processed.
Skipped due to Error	Skipped the error.
Storage Complete	The storage is complete.
Storage Failed	The storage has failed.
Supplies Order Call failed	The supply order call has failed.
Suspend / Resume Key Error	Finisher stop button was pressed.
Transmission Aborted	The transmission was interrupted.
Transmission Complete	The transmission completion was completed.
Transmission Failed	The transmission has failed.
Tray Error: Chaptering	The paper feed tray specification error has occurred because chaptering as well as the normal paper use the same tray for printing.
Tray Error: Duplex Printing	Selected paper tray cannot be used for duplex printing.
Unit Left Open: ADF	Document feeder is opened.
Warming Up...	The printer is warming up.

Note

- For details about UNIX commands, see UNIX Supplement.
- Check the error contents that may be printed in the configuration page. For details about printing a configuration page, see p.147 "List/Test Print Menu".

Printer configuration

You can check the printer configuration using telnet.

This section explains the checking procedure for input/output tray and printer language.

- UNIX: Use the “info” command and “rsh”, “rcp”, “ftp” and “sftp” parameters.
- mshell: Use the “info” command.

❖ Input Tray

Item	Description
No.	ID number of the paper tray
Name	Name of the paper tray
PaperSize	Size of paper loaded in the paper tray
status	Current status of the paper tray <ul style="list-style-type: none"> • Normal:Normal • NoInputTray: No tray • PaperEnd:No paper

❖ Output Tray

Item	Description
No.	ID number of the output tray
Name	Name of the output tray
status	Current status of the output tray <ul style="list-style-type: none"> • Normal:Normal • PaperExist:Paper exist • OverFlow:Paper is full • Error:Other errors

❖ Emulation

Item	Description
No.	ID number of the printer language used by the printer
Name	Name of the printer language used in the printer
Version	Version of the printer language

>Note

- For details about UNIX commands and parameters, see UNIX Supplement.
- For details about mshell “info” commands, see p.210 “info”.

Understanding the Displayed Information

This section explains how to read status information returned by the network interface board.

Print Job Information

Use the following command to display print job information:

- UNIX: Use the “info” command and “rsh”, “rcp”, and “ftp” parameters.
- mshell: Use the “info” command.

Item	Description
Rank	Print job status. <ul style="list-style-type: none"> • active Printing or preparing for printing. • Waiting Waiting to be transferred to the printer.
Owner	Print request user name.
Job	Print request number.
Files	The name of the document.
Total Size	The size of the data (spooled). The default is 0 bytes.

Note

- For details about UNIX commands and parameters, see UNIX Supplement.
- For details about mshell “info” commands, see p.210 “info”.

Print Log Information

This is a record of the most recent 16 jobs printed.

Use the following command to display print log information:

- UNIX: Use the “prnlog” command and “rsh”, “rcp”, and “ftp” parameters.
- telnet : Use the “prnlog” command. See p.213 “prnlog”.

Item	Description
ID	Print request ID.
User	Print request user name.
Page	Number of pages printed

Item	Description
Result	Print Request Result Communication Result <ul style="list-style-type: none"> • OK Print was completed normally. However, the print result may not be as required due to printer problems. • NG Printing was not completed normally. • Canceled An “rcp”, “rsh”, or “lpr” command print request was canceled, possibly due to the printing application. Not applicable to the “ftp” or “rprinter” command.
Time	Time the print requested was received. Time of print request reception
User ID	Printer driver-configured User ID. Appears when the print request ID is specified.
JobName	Name of the document for printing Appears when the print request ID is specified.

Note

- For details about UNIX commands and parameters, see UNIX Supplement.
- For details about mshell prnlog commands, see p.213 “prnlog”.

Configuring the Network Interface Board

Use the following command to display network interface board settings:

- telnet : Use the “show” command.

Item	Description
Common Mode Protocol Up/Down AppleTalk NetWare SMB SCSI print PictBridge Device Up/Down Parallel USB Bluetooth Ethernet interface	Protocol Settings Device Settings

Item	Description
Syslog priority NVRAM version Device name Comment Location Contact Soft switch	
AppleTalk Mode Net Object Type Zone	AppleTalk Settings
TCP/IP Mode (IPv4) Mode (IPv6) ftp lpr rsh telnet diprint web http ftpc snmp ipp autonet Bonjour ssl nrs rfu nbt ssdp ssh sftp	TCP/IP Settings

Item	Description
IPv4 DHCP Address Netmask Broadcast Gateway IPv6 Stateless Manual Gateway EncapType Host name DNS Domain	
Access Control IPv4 Access Entry [X] IPv6 Access Entry [X] Time server Time Zone Time server polling time SYSLOG server Home page URL1 Home page link name1 Home page URL2 Home page link name2 Help page URL	Access Control Settings X can be set between 1 and 5. X can be set between 1 and 5. Time Settings Websys Settings URL of home page
NetWare EncapType RPRINTER number Print server name File server name Context name Switch Mode	

Item	Description
NDS/Bindery Packet negotiation Login Mode Print job timeout Protocol SAP interval time NDS Tree Name Transfer Protocol	NDS tree name
SMB Switch Mode Direct print Notification Workgroup name Computer name Comment Share name[1] Protocol	SMB Settings
SCSI print Bidi	
IEEE 802.11b Host name Communication Mode SSID Channel range Channel TX Rate Security WEP Authentication WEP Encryption key number WEP Encryption keys[X] WPA Encryption WPA Authentication Pre-Shared Key User name	IEEE 802.11b Settings X can be set between 1 and 5.

Item	Description
Domain name EAP Type Password Phase 2 user name Phase 2 Method TTLS Phase 2 Method PEAP Server cert Intermediate CA Server ID	
DNS IPv4 Server[X] Select IPv4 DNS Server IPv6 Server[X]	DNS Settings X can be set between 1 and 3. X can be set between 1 and 3.
Domain Name ether wlan	
DDNS ether wlan	
WINS ether Primary WINS Secondary WINS wlan Primary WINS Secondary WINS	WINS Settings
Bluetooth Bluetooth mode	Bluetooth Settings
SSDP UUID Profile TTL	SSDP Settings

Item	Description
UPnP URL	UPnP Settings
Bonjour Computer Name (cname) Local Hostname (ether) Local Hostname (wlan) Location Priority (diprint) Priority (lpr) Priority (ipp) IP TTL LinkLocal Route for Multi I/F:	Bonjour (Rendezvous) Settings
SNMP SMNPv1v2 SMNPv3 protocol v1Trap v2Trap v3Trap SNMPv1v2 Remoto Setting SNMPv3 Privacy	SNMP Settings
ssh Compression Port Timeout LoginTimeOut	ssh Settings
AuthFree IPv4 AuthFree Entry[X] IPv6 AuthFree Entry[X] Parallel USB	Authfree Settings X can be set between 1 and 5. X can be set between 1 and 5.
LPR Iprm check host	

Item	Description
Certificate Verification	
Shell mode	Remote maintenance tool mode

Message List

This is a list of messages that appear in the printer's system log. The system log can be viewed using the "syslog" command.

System Log Information

Use the following command to display the system log information:

- UNIX: Use the "syslog" command and "rsh", "rcp", "ftp", and "sftp" parameters.
- telnet : Use the "syslog" command.

Message	Problem and solutions
Access to NetWare server <file server name> denied. Either there is no account for this print server on the NetWare server or the password was incorrect.	(In the print server mode) Login to the file server failed. Make sure that the print server is registered on the file server. If a password is specified for the print server, deleteit.
account is unavailable: Same account name be used.	User account is disabled. This could be because it use the same account name as the administrator account.
account is unavailable: The authentication password is not set up.	User account is disabled. This could be because the authentication password is not set, and only the encryption account is set.
account is unavailable: encryption is impossible.	Encryption is not possible and account is disabled. This could be because: <ul style="list-style-type: none"> • Security option is not installed. • Encryption password has not been specified.
add_sess_IPv4: bad trap<IPv4 address>, community:<community name>	The IPv4 address (0.0.0.0) is unavailable when the community access type is TRAP. Specify the host IPv4 address for the TRAP destination.
add_sess_IPv6: bad trap<IPv6 address>, community:<community name>	The IPv6 address [::] is unavailable when the community access type is TRAP. Specify the host IPv6 address for the TRAP destination.
add_sess_IPv4: community<community name> already defined.	The same community name already exists. Use another community name.
add_sess_IPv6: community <community name> already defined.	The same community name already exists. Use another community name.
add_sess_IPX: bad trap<IPX address>community <community name>	The IPX address (00:00:00:00:00:00) is unavailable when the community access type is TRAP. Specify the host IPX address for the TRAP destination.
add_sess_IPX: community <community name> already defined.	The same community name already exists. Use another community name.
Attach FileServer= <file servername>	Connection to the file server as the nearest server has been established.
Attach to print queue <print queue name>	(In the print server mode) Attached to the print queue.

Message	Problem and solutions
Authentication mode mismatch< SSID >	Authentication mode is different to the AP. The required SSID is the SSID of the access point connected to when in infrastructure mode.
btd is disabled.	Communication via Bluetooth is unavailable because btd is disabled in the security mode. Enable the btd in the security mode.
centrod is disabled.	Communication via parallel connection is unavailable because centrod is disabled in the security mode. Enable centrod in the security mode.
Cannot create service connection	(In the remote printer mode) Connection to the file server has not been established. The number of file server users may have exceeded the maximum capacity of the file server.
Cannot find rprinter (<print server name>/<printer number>)	The printer with the number displayed on the print server does not exist. Make sure that the printer number is registered on the print server.
Change IP address from DHCP Server.	The IP address changes when DHCP lease is renewed. To always assign the same IP address, set a static IP address to the DHCP server.
child process exec error! (process name)	The network service failed to start. Turn the printer off and then on. If this does not work, contact your service or sales representative.
Client password rejected	The client's password was rejected. Check the client password.
Client tls certificate rejected	The client's TLS certificate was rejected. Check the certificate.
Connected DHCP Server(<DHCP server address>).	The IP address was successfully received from the DHCP server.
Could not attach to FileServer<error number>	(In the remote printer mode) Connection to the file server has not been established. The file server has refused the connection. Check the file server configuration.
Could not attach to PServer<print server>	(In the remote printer mode) Connection to the print server has not been established. The print server has refused the connection. Check the print server configuration.
Current Interface Speed: xxxMbps	Speed of the network (10Mbps, 100 Mbps, or 1Gbps).
Current IP address <currentIP address>	Current IPv4 address.
Current IPX address<IPX address>	Current IPX address
DHCP lease time expired.	DHCP lease time has expired. The printer tries to discover the DHCP server again. The IP address until now becomes invalid.
DHCP server not found.	The DHCP server was not found. Make sure that the DHCP is on the network.

Message	Problem and solutions
dhcpcd start.	The DHCPCD service (dhcp client service) has started.
dpsd is disabled.	Communication via PictBridge is unavailable because PictBridge is disabled in the security mode. Enable PictBridge in the security mode.
Duplicate IP=<IP address>(from<MAC address>).	The same IP address (IPv4, or IPv6 address) was used. Each IP address (IPv4, or IPv6 address) must be unique. Check the address of the device indicated in [MAC address].
Established SPX Connection with PServer, (RPSocket=<socketnumber>, connID=<connection ID>)	(In the remote printer mode) Connection to the print server has been established.
exiting	The lpd service has ended and the system is exiting the process.
Exit pserver	(In the print server mode) The print server function is disabled because the necessary print server settings have not been made.
Frametype =<frame typename>	The frame type name is configured to be used on NetWare.
httpd start.	The httpd service has started.
IEEE 802.11b <communication mode> mode	Displays IEEE 802.11b communication mode.
inetd start.	The inetd service has started.
Interface (interface name): Duplicate IP Address (IP address).	The same IP (IPv4 or IPv6) address was used. Each IP address must be unique. Check the address of the device indicated in [IP address].
< Interface > started with IP: < IP address >	IP address (IPv4, or IPv4 address) has been set for the interface and is operating.
< Interface >: Subnet overlap.	The same IP address (IPv, or IPv6 address) and the subnet mask is used with other device.
IPP cancel-job: permission denied.	The printer could not authenticate the name of the user attempting to cancel a job.
IPP job canceled. jobid=%d.	The spooled job was canceled due to error or user request.
LeaseTime=<lease time>(sec), Renew-Time=<renewtime>(sec).	The resource lease time received from the DHCP server is displayed in [lease time] in seconds. The renewal time is displayed in [renew time] in seconds.
Login to fileserver <file server name> (<IPX IPv4 IPv6>,<NDS BINDERY>)	(In the print server mode) Login to the file server is in the NDS or BINDERY mode.
Memory allocate error.	Data cannot be obtained. Disconnect the USB cable, and then connect it.
Name registration success. WINS Server=<WINS server address> NetBIOS Name=<NetBIOS name>	Name registration of <NetBIOS Name> to <WINS server address> was successful.

Message	Problem and solutions
Name registration success in Broadcast name=<NetBIOS Name>	Name registration by Broadcast name of <NetBIOS Name> was successful.
Name registration failed. name=<NetBIOS name>	Name registration of <NetBIOSName> failed. Change to different NetBIOS name.
nbtd start.	The nbtd service has started.
nprinter start (Netware)	(In the remote printer mode) The NetWare service has started.
nwstart start. (NetWare)	The service for NetWare protocol stack setting has started.
Open log file <file name>	(In the print server mode) The specified log file has been opened.
phy release file open failed.	Replacing the network interface board is required. Contact your sales or service representative.
Print queue <print queue name> cannot be serviced by printer 0, <print server name>	(In the print server mode) The print queue cannot be established. Make sure that print queue exists on the specified file server.
Print server <print servername> has no printer.	(In the print server mode) The printer is not assigned to the print server. Using NWadmin, assign the printer, and then restart it.
print session full	No more print jobs can be accepted.
Printer <printer name> has no queue	(In the print server mode) The print queue is not assigned to the printer. Using NWadmin, assign the print queue to the printer, and then restart it.
pserver start. (NetWare)	(In the print server mode) The NetWare service has started.
Required file server (<file servername>) not found	The required file server is not found.
received EAP Failure	EAP reception failed.
restarted.	The lpd service has started.
sap enable, saptype=<SAP type>, sap-name=<SAP name>	The SAP function has started. The SAP packet is issued to advertise the service on the SAP table on the NetWare server.
server identity invalid	The server ID is disabled. Check the server authentication.
session IPv4 <community name> not defined.	The requested community name is not defined.
session IPv6 <community name> not defined.	The requested community name is not defined.
session <community name> already defined.	The requested community name is not defined.
session_ipx <community name> not defined.	The requested community name is not defined.
Set context to <NDS contextname>	An NDS context name has been set.
smbd start. (NETBIOS)	The smbd service has started.

Message	Problem and solutions
SMTPC: failed to get smtp server ip-address.	<p>The SMTP server IP address could not be obtained. This could be because:</p> <ul style="list-style-type: none"> • The specified DNS server could not be found. • No connection to the network has been established. • The specified DNS server could not be found. • An incorrect DNS server is specified. • The specified SMTP server IP address could not be found in the DNS server.
SMTPC: failed to connect smtp server. timeout.	<p>Connection to the SMTP server failed due to timeout. This could be because the specified SMTP server name is incorrect, or no connection to the network has been established, or the network configuration is incorrect, so there is no response from the SMTP server. Check the SMTP server name, or the network connection and configuration.</p>
SMTPC: refused connect by smtp server.	<p>Connection to the SMTP server is denied. This could be because server other than the SMTP server has been specified, or the specified SMTP server port number is incorrect. Check the SMTP server name, port number, or the SMTP server port number.</p>
SMTPC: no smtp server. connection close.	<p>Connection to the SMTP server failed due to no response from SMTP. This could be because a server other than the SMTP server has been specified, or the specified SMTP server port number is incorrect. Check the SMTP server name, port number, or the SMTP server port number.</p>
SMTPC: failed to connect smtp server.	<p>Connection to the SMTP server failed. This could be because no connection to the network has been established, or the network configuration is incorrect, so there is no response from the SMTP server, or the specified SMTP server name is incorrect, or the specified SMTP server IP address could not be found in the DNS server, or a server other than the SMTP server has been specified, or the specified SMTP server port number is incorrect. Check the DNS Server's IP address and SMTP server's IP address, or the SMTP server name and SMTP port number, or the SMTP server's SMTP port number, or the network connection and configuration.</p>
SMTPC: username or password wasn't correct. [response code] (information)	<p>Connection to the SMTP server failed, because the specified SMTP user name is incorrect, or the specified SMTP password is incorrect. Check the SMTP user name and password.</p>
Snmp over IPv4 is ready	<p>Communication over IPv4 with snmp is available.</p>

Message	Problem and solutions
Snmp over IPv6 is ready.	Communication over IPv6 with snmp is available.
Snmp over IPX is ready.	Communication over IPX with snmp is available.
snmpd start.	The snmpd service has started.
started.	The direct print service has started.
Started.	The bonjour (rendezvous) function is enabled.
Terminated.	The bonjour (rendezvous) function is disabled.
The print server received error <error number> during attempt to log in to the network. Access to the network was denied. Verify that the print server name and password are correct.	Login to the file server failed. The print server is not registered or a password is specified. Register the print server without specifying a password.
too many pictures.	PictBridge printing failed because too many image are sent during one print transaction. Reduce images at one print transaction.
trap account is unavailable.	v3Trap cannot be sent. This could be because the Trap destination account is different from the account specified by the printer.
usbd is disable.	Plug and Play function and printing is disabled because usbd is disabled in the security mode. Enable usbd in the security mode.
WINS name registration: No response to server<WINS server address>	There was no response from the WINS server. Check the correct WINS server address is entered. Alternatively, check the WINS server is functioning properly.
WINS wrong scopeID=<Scope ID>	An invalid scope ID was used. Use a valid scope ID.
wpa authentication Failed	WPA authentication failed. Check the WPA configuration.
wpa authentication started	WPA authentication has started.
wpa IEEE802.1X started	WPA authentication has started.
wpa connecting to authenticator	WPA is connecting to authenticator.
wpa link up	WPA key exchange has finished, and communication has been terminated.
wpa probe response doesn't have IE.	WPA probe response does not have IE.
wpa success authenticated	WPA authentication was successful.
wpa success key received	WPA key reception was successful.
wpa waiting for key	Waiting for WPA key.
wpasupd start	wpasupd has started.
wpasupd stop	wpasupd has ended.

Note

- For details about UNIX commands and parameters, see UNIX Supplement.
- For details about “syslog” command, see p.224 “syslog”.

7. Using a Printer Server

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.

Important

- Under Windows 2000, Windows XP Professional, or Windows Server 2003, to change printer properties in the **[Printer]** folder, you need Printer Management access authentication; under Windows NT 4.0, Full Control access authentication. Log on to the file server as an Administrator or member of the PowerUsers group.

1 Open the **[Printers]** window from the **[Start]** menu.

The **[Printers]** window appears.

Preparing Printer Server Server 2003, **[Printers and Faxes]** window appears.

2 Click the icon of the printer you want to use. On the **[File]** menu, click **[Properties]**. The printer properties appear.

3 On the **[Sharing]** tab, click **[Shared as:]**.

4 To share the printer with users using a different version of Windows, click **[Additional Drivers...]**.

If you have installed an alternative driver by selecting **[Shared as:]** during the printer driver installation, this step can be ignored.

5 Click **[OK]**, and then close the printer properties.

Printing notification via SmartDeviceMonitor for Client

Follow the procedure below to configure the printer to use the printing notification function of SmartDeviceMonitor for Client.

Setting the print server

Important

- Under Windows 2000, Windows XP Professional, or Windows Server 2003, to change printer properties in the **[Printer]** folder, you need Printer Management access authentication; under Windows NT 4.0, Full Control access authentication. Log on to the file server as an Administrator or member of the PowerUsers group.

1 On the [Start] menu, point to [Programs], [DeskTopBinder], [SmartDeviceMonitor for Client], and then click [Print Server Setting].

The print server setting dialog box appears.

2 Select the [Notify client PCs of printout/data-transmission] check box, and then click [OK].

After print server setting is made, a dialog box appears. Confirm the dialog box content, and click [OK].

Click [Cancel] to interrupt the procedure.

A dialog box appears for client setting.

3 A dialog box appears for client setting. Click [OK].

The print server setting is complete. Each client must be set to receive print notification.

 **Note**

- Current printing jobs restart from the beginning after the spooler pauses briefly.
- When the expansion function is not used, the function is automatically set as available.
- If you log on using an account that does not have Administrator privileges, the client may not be notified.

Setting a Client

1 On the [Start] menu, point to [Program], [DeskTopBinder], [SmartDeviceMonitor for Client], and then click [Extended Features Settings].

A dialog box for setting the expansion function appears.

2 Select the [Notify of printout/data-transmission when using print server] check box.

3 Select the [Notify when using the print server] check box.

4 Click [OK].

The dialog box for setting the expansion function closes.

The client setting is completed.

 **Note**

- Set the printing notification function on the printer driver as well as on SmartDeviceMonitor for Client.

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”.

Important

IPv6 cannot be used on this function.

Setting procedure

- When using the printer as a print server
 - ① Installing SmartDeviceMonitor for Admin
 - ② Setting the network interface board.
 - ③ Turning the printer off and then back on.
- When using the printer as a remote printer
 - ① Installing SmartDeviceMonitor for Admin.
 - ② Setting the network interface board.
 - ③ Setting NetWare.
 - ④ Starting the print server.

Note

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's name ...CAREE
- Print server's name ...PSERV
- Printer's name ...R-PRN
- Queue name ...R-QUEUE

7

Using SmartDeviceMonitor for Admin

To use the printer in a NetWare environment, use SmartDeviceMonitor for Admin to set the NetWare printing environment.

Note

The NetWare Client provided by Novell is required to set the printing environment using SmartDeviceMonitor for Admin under the following environments:

- NDS mode in Windows 95/98/Me
- NDS or Bindery mode in Windows 2000/XP, Windows NT 4.0

Reference

For details about installing SmartDeviceMonitor for Admin, see p.181 “Installing SmartDeviceMonitor for Admin”.

❖ Printers listed by SmartDeviceMonitor for Admin

SmartDeviceMonitor for Admin lists printers connected to the network. If you cannot identify the printer you want to configure, print configuration page, and then check the printer name.

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.

1 Start Web Image Monitor.

2 Click [Login].

A dialog box for entering the login user name and password appears.

3 Enter the login user name and password, and then click [Login].

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

4 Click [Configuration] in the left area, and then click [NetWare].

- 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 on 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 on 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.

5 Confirm the settings, and then click [OK].

Configuration is now complete. Wait several before restarting Web Image Monitor.

6 Click [Logout].

Note

- To check that the configuration is made correctly, 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 with the configuration page printed from the printer. For details about printing a configuration page, see p.147 "List/Test Print Menu".
- If no printer names appear in the list, match the frame types of IPX/SPXs for the computer and printer. Use the [Network] dialog box of Windows to change the frame type of the computer.

Reference

For details about changing the printer's frame type ("NW Frame Type"), see Hardware Guide.

Setting Up as a Print Server (NetWare 4.x, 5/5.1, 6/6.5)

7

Follow the procedure below to connect the printer as a print server using NetWare 4.x, NetWare 5/5.1, or NetWare 6.0.

Important

- When using the printer as a print server in NetWare 4.x, NetWare 5/5.1, or NetWare 6.0, set it to the NDS mode.
- When using NetWare 5/5.1 or NetWare 6.0, set the printer as a print server.

1 Start Web Image Monitor.

2 Click [Login].

A dialog box for entering the login user name and password appears.

3 Enter the login user name and password, and then click [Login].

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

4 Click [Configuration] in the left area, and then click [NetWare].

- 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 on 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 on 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.

5 Confirm the settings, and then click [OK].

Configuration is now complete. Wait several minutes before restarting Web Image Monitor.

6 Click [Logout].

Note

- To check that the configuration is made correctly, enter the following from the command prompt.
F:> NLIST USER/A/B
- 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 with the configuration page printed from the printer. For details about printing a configuration page, see p.147 "Printing a Configuration Page".
- If no printer names appear in the list, match the frame types of IPX/SPXs for the computer and printer. Use the [Network] dialog box of Windows to change the frame type of the computer.

Reference

For details about changing the printer's frame type ("NW Frame Type"), see *Hardware Guide*.

When using the printer in a pure IP environment of NetWare 5/5.1 or NetWare 6.0/6.5, see p.259 "Using Pure IP in the NetWare 5/5.1 or 6/6.5 Environment".

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.

Important

- When creating a queued print server in a pure IP environment of NetWare 5/5.1 or NetWare 6.0, 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 TCP/IP.

Setting up using NWadmin

1 From Windows, start NWadmin.

For details about NWadmin, see the NetWare manuals.

2 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.

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** Click [**Assignments**], and then click [**Add**] in the [**Assignments**] area.
- 13** In the [**Available objects**] box, click the queue you, 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 using NIB Setup Tool, 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 Sever (Non NDPS)**].
- 19** In the [**Print Server Name**] box, enter the print server name.
Use the same print server name specified using NIB Setup Tool.
- 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**].

7

- 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"

Setting up using Web Image Monitor

- 1** Start Web Image Monitor.
- 2** Click [**Login**].
A dialog box for entering the [**Login User Name**] and [**Login Password**] appears.
- 3** Enter the login user name and password, and then click [**Login**].
For details about the login name and password, consult your network administrator.
- 4** Click [**Configuration**] in the left area, and then click [**NetWare**].

5 Confirm the settings, and then click [OK].

Configuration is now complete. Wait several minutes before restarting Web Image Monitor.

6 Click [Logout].

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 “P_CONSOLE” from the command prompt.

F:> P_CONSOLE

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.

7 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.

Use the same printer name specified using NIB Setup Tool.

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].

Use the same printer number specified as the remote printer number using NIB Setup Tool.

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"

 **Note**

If the printer works as configured, the message "Waiting for job" appears.

Setting up using Web Image Monitor**1** Start Web Image Monitor.**2** Click [Login].

A dialog box for entering the [Login User Name] and [Login Password] appears.

3 Enter the login user name and password, and then click [Login].

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

4 Click [Configuration] in the left area, and then click [NetWare].

5 Confirm the settings, and then click [OK].

Configuration is now complete. Wait several minutes before restarting Web Image Monitor.

6 Click [Logout].

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.

Important

- To use the printer as a remote printer under NetWare 4.x/5/5.1, set it to NDS mode.
- Do not use the printer as a remote printer when Pure IP is used.

Setting up using NWadmin

1 From Windows, start NWadmin.

For details about NWadmin, see the NetWare manuals.

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].

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 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].
- 15** 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 using NIB Setup Tool, 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.
Use the same print server name specified using NIB Setup Tool.
- 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].
Use the same printer number specified as the remote printer number using NIB Setup Tool.
- 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 [OK] key.
- 26** Select the printer name on the context menu, and then press the [OK] key.

Setting up using Web Image Monitor

- 1** Start Web Image Monitor.
- 2** Click [Login].

3 Enter the login user name and password, and then click [Login].

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

4 Click [Configuration] in the left area, and then click [NetWare].**5** Confirm the settings, and then click [OK].

Configuration is now complete. Wait several minutes before restarting Web Image Monitor.

6 Click [Logout].

8. Special Operations under Windows

Printing Files Directly from Windows

You can print files directly using Windows commands. For example, you can print PostScript files for PostScript 3.

❖ Windows 95/98/Me

You can print files directly using “ftp” or “sftp” command.

❖ Windows 2000/XP, Windows Server 2003, Windows NT 4.0

You can print files directly using “lpr”, “rcp”, “ftp” or “sftp” command.

Setup

Follow the procedure below to make network environment settings.

1 Enable TCP/IP with the control panel, and then set up the printer's network environment about TCP/IP including IP addresses.

TCP/IP of the printer is set as default.

2 Install a TCP/IP in Windows to set up the network environment.

Consult the network administrator for the local setting information.

3 To print under Windows 2000/XP, Windows Server 2003, or Windows NT 4.0, install “Printing service for UNIX” as the network application. To print under Windows NT 4.0, install “Microsoft TCP/IP printing” as the network application.

🔍 Reference

For details about setting up IPv4 address, see Hardware Guide.

For details about setting the IPv4 address of the printer using DHCP, see p.323 “Using DHCP”.

This completes the setup for specifying a printer using an IPv4 address when printing. When using a host name to specify a printer, proceed to p.268 “Using a Host Name Instead of an IPv4 Address” and continue the setup.

Using a Host Name Instead of an IPv4 Address

When a host name is defined, you can specify a printer by host name instead of IPv4 address. The host names vary depending on the network environment.

When using DNS

Use the host name set to the data file on the DNS server.

When setting the IPv4 address of a printer using DHCP

Use the printer name on the configuration page as the host name.

Reference

For details about printing a configuration page, see p.147 “Printing a Configuration Page”.

In other cases

Add the IPv4 address and host name of the network printer to the hosts file on the computer used for printing. Methods of addition vary depending on operating systems.

Windows 95/98/Me

8

1 Copy \WINDOWS\HOSTS.SAM to the same directory and name it “HOSTS” with no extension.

2 Open the “\WINDOWS\HOSTS” file created using memo pad files, for instance.

3 Add an IP address and host name to the hosts file using the following format:

192.168.15.16 host # NP

“192.168.15.16” is the IPv4 address, “host” is the printer’s host name, and “#NP” is replaced by comments. Insert a space or tab between “192.168.15.16” and “host”, between “host” and “#NP” respectively, using one line for this format.

4 Save the file.

Windows 2000/XP, Windows Server 2003, Windows NT 4.0

1 Open the hosts file using memo pad files, for instance.

The hosts file is in the following folder:

\WINNT\SYSTEM32\DRIVERS\ETC\HOSTS

“\WINNT” is the directory of the installation destination for Windows 2000/XP, Windows Server 2003, and Windows NT 4.0.

2 Add an IPv4 address and host name to the hosts file using the following format:

192.168.15.16 host # NP

“192.168.15.16” is the IPv4 address, “host” is the printer’s host name, and “#NP” is replaced by comments. Insert a space or tab between “192.168.15.16” and “host”, between “host” and “#NP” respectively, using one line for this format.

3 Save the file.

 **Note**

- When using a host name under Windows Server 2003 with IPv6 protocol, perform host name resolution using an external DNS server. The host file cannot be used.

Printing Commands

The following explains printing operations using the “lpr”, “rcp”, “ftp”, and “sftp” commands.

8

Enter commands using the command prompt window. The location of the command prompts varies depending on operating systems:

- Windows 95/98
[Start] - [Programs] - [MS-DOS Prompt]
- Windows Me
[Start] - [Programs] - [Accessories] - [MS-DOS Prompt]
- Windows 2000
[Start] - [Programs] - [Accessories] - [Command Prompt]
- Windows XP, Windows Server 2003
[Start] - [All Programs] - [Accessories] - [Command Prompt]
- Windows NT 4.0
[Start] - [Programs] - [Command Prompt]

 **Note**

- Match the data format of the file to be printed with the emulation mode of the printer.
- If the message “print requests full” appears, no print jobs can be accepted. Try again when sessions end. For each command, the amount of possible sessions is indicated as follows:
 - lpr: 10
 - rcp, rsh: 5
 - ftp: 3
 - sftp: 3
- Enter the file name in a format including the path from the directory executing commands.

 **Reference**

The “option” specified in a command is an intrinsic printer option and its syntax is similar to printing from UNIX. For details, see UNIX Supplement.

lpr

❖ When specifying a printer by IP address

```
c:> lpr -Sprinter's IP address [-Poption] [-ol] \pass  
name\file name
```

❖ When using a host name instead of an IP address

```
c:> lpr -Sprinter's host name [-Poption] [-ol] \pass  
name\file name
```

When printing a binary file, add the “-ol” option (lowercase O, and lowercase L).

When using a printer with the host name “host” to print a PostScript file named “file 1” located in the “C:\PRINT” directory, the command line is as follows:

```
c:> lpr -Shost -Pfiletype=RPS -ol C:\PRINT\file1
```

rcp

First, register the printer's host name in the hosts file.

```
c:> rcp [-b] \pass name\file name [\pass name\file name...]  
printer's host name:[option]
```

 **Note**

- In file names, “*” and “?” can be used as wild cards.
- When printing a binary file, add the “-b” option.

When using a printer with the host name “host” to print a PostScript file named “file 1” or “file 2” located in the “C:\PRINT” directory, the command line is as follows:

```
c:> rcp -b C:\PRINT\file1 C:\PRINT\file2 host:filetype=RPS
```

🔍 Reference

For details about registering the printer's host name in the hosts file, see p.268 "Using a Host Name Instead of an IPv4 Address".

ftp

Use the "put" or "mput" command according to the number of files to be printed.

❖ When one file is printed

```
ftp> put \pass name\file name [option]
```

❖ When multiple files are printed

```
ftp> mput \pass name\file name [\pass name\file name...] [option]
```

1 Formulate the printer's IP address or the host name of the hosts file printer as an argument and use the "ftp" command.

```
% ftp printer's IP address
```

2 Enter the user name and password, and then press the [OK] key.

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

User:

Password:

3 When printing a binary file, set the file mode to binary.

```
ftp> bin
```

When printing a binary file in ASCII mode, print may not come out correctly.

4 Specify files to be printed.

The following shows the examples of printing a PostScript file named "file 1" in the "C:\PRINT" directory and printing file 1 and file 2.

```
ftp> put C:\PRINT\file1 filetype=RPS
ftp> mput C:\PRINT\file1 C:\PRINT\file2
```

5 Quit ftp.

```
ftp> bye
```

📎 Note

- "=","/", "_" , and ";" cannot be used for filenames. File names will be read as option strings.
- For "mput" command, option can not be defined.
- For "mput" command, "*" and "?" can be used as wild cards in file names.
- When printing a binary file in ASCII mode, print may not come out correctly.

sftp

To use the “sftp” command, a client software is required.

Use the client software that is compliant with ssh ver2.

1 Start the client software.

“psftp>open “host name”” appears.

2 Enter the host name, and then press the [Enter] key.

“Login as: “user name”” appears.

3 Enter the user name, and then press the [Enter] key.

When you access the “sftp” command initially , “Store key in cache? (y/n)” message appears. Select whether or not to store the key and key information, and then press the [Enter] key.

The entered “user name” and “host name” appears.

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

The entered password will not appear.

 **Note**

Not all client can use this function.

 **Reference**

For details, see the client software help or the manual help.

9. Mac OS Configuration

Mac OS

This section explains how to configure a Mac OS to use EtherTalk and USB.

The following explains how to configure Mac OS 9.1. If you are not using Mac OS 9.1, see the manual of the Mac OS you are using for details.

Important

For Mac OS 8.6 and higher. (Mac OS X Classic environment is supported.)

Note

The PostScript 3 printer driver is stored in the following folder on the CD-ROM.

Mac OS 8 and 9:PS Driver:(language):Disk1

Installing the PostScript 3 Printer Driver and PPD File

It is necessary to install a printer driver and PostScript Printer Description (PPD) files to print from a Mac OS.

Follow the procedure below to install a printer driver and a PPD file into a Mac OS using Mac OS 8.6 and higher.

PostScript 3 Printer Driver

- 1** Insert the CD-ROM into the CD-ROM drive.
- 2** Double-click the CD-ROM drive icon.
- 3** Double-click the [Mac OS 8 and 9] folder.
- 4** Double-click the [PS Driver] folder.
- 5** Double-click the folder of the language you use.
- 6** Open [Disk1], and then double-click the installer icon.
- 7** Follow the instructions on the screen.

PPD Files

- 1** Double-click the CD-ROM drive icon.
- 2** Double-click the [Mac OS 8 and 9] folder.
- 3** Double-click the [Printer Descriptions] folder.

- 4** Double-click the folder of the language you use.
- 5** Open the [Disk1] folder.
- 6** Drag the PPD file and the plugin file into [Printer Descriptions] in [Extensions] under [System Folder].
- 7** Restart the Mac OS.

Setting Up PPD Files

Important

Make sure that the printers are connected to an AppleTalk network before performing the following procedure.

- 1** On the [Apple] menu, click [Chooser].
- 2** Click the Adobe PS icon.
- 3** In the [Select a PostScript Printer:] list, click the name of the printer you want to use.
- 4** Click [Create].
- 5** Click the printer you want to use, and then click [Select].

A PPD file is set up and the Adobe PS icon appears at the left of the printer name in the list. Follow the procedure on p.275 "Setting Up Options" to make option settings; otherwise close the [Chooser] dialog box.

Creating a Desktop Printer Icon

9

Important

Make sure that printers are connected to the USB before performing the following procedure.

To use a printer connected by USB, create a desktop printer icon.

- 1** Double-click [Desktop Printer Utility] in the [AdobePS Components] folder.
- 2** Click [AdobePS] in [With], click [Printer (USB)] in [Create Desktop], and then click [OK].
- 3** Click [Change] in [USB Printer Selection].
- 4** Select the model you are using in [Select a USB Printer:], and then click [OK].
- 5** Click [Create].
- 6** Enter the printer name, and then click [Save].
- The printer icon appears on the desktop.
- 7** Quit Desktop Printer Utility.

Setting Up Options

- 1** On the [Apple] menu, click [Chooser].
- 2** Click the Adobe PS icon.
- 3** In the [Select the PostScript Printer:] list, click the name of the printer you want to use, and then click [Setup].
- 4** Click [Configure].
A list of options appears.
- 5** Select the option you want to set up, and then select an appropriate setting for it.
- 6** Click [OK].
The list of options closes.
- 7** Click [OK].
The [Chooser] dialog box appears.
- 8** Close the [Chooser] dialog box.

 **Note**

If the option you want to select is not displayed, PPD files may not be set up correctly. To complete the setup, check the name of the PPD file displayed in the dialog box.

Installing the ColorSync Profiles

ColorSync profiles enable a printer to print colors consistent with those on the computer display. You must install the ColorSync profile to use this function.

Follow the procedure below to install the ColorSync profiles.

- 1** Start a Mac OS.
- 2** Double-click the hard disk icon, and then open the appropriate folder for installing the ColorSync profiles.
The location of the appropriate folder may vary depending on the version of the Mac OS. The following are examples:
 - System: Preferences: ColorSync profiles
 - System: ColorSync profiles
- 3** Insert the CD-ROM into the CD-ROM drive.
The CD-ROM drive icon appears.
- 4** Double-click the CD-ROM drive icon.
The contents of the CD-ROM appear.

- 5** Double-click the [Mac OS 8 and 9] folder.
- 6** Double-click the [ColorSync Profiles] folder.

- 7** Drag the file to the [ColorSync Profiles] folder under [System Folder].

The ColorSync profiles are installed.

 **Note**

- The ColorSync profiles are consistent with color characteristics defined by the International Color Consortium (ICC).
- For some computer displays, particular settings need to be created by ColorSync. For details, see the appropriate manuals for your computer display.

Installing Adobe Type Manager

 **Important**

- Quit all applications currently running before installation. Install ATM after you restart the computer.

- 1** Start a Mac OS.
- 2** Insert the CD-ROM into the CD-ROM drive.
- 3** Double-click the CD-ROM drive con.
- 4** Double-click the [Mac OS 8 and 9] folder.
- 5** Double-click the [ATM] folder.
- 6** Double-click the ATM 4.6.2 installer icon.
- 7** Follow the instructions on the screen.
- 8** When the procedure is complete, restart the computer. ATM will be completely installed only after restarting.
- 9** On the [Apple] menu, open [Control Panel], and then click [~ATM].
- 10** The ATM control panel opens.

 **Note**

- For details about installation, see the operating instructions in the ATM folder.

Installing Screen fonts

Follow the procedure below to install screen fonts.

The screen fonts described below can be found in the [Fonts] folder on the CD-ROM.

- 1** Start a Mac OS.
- 2** Insert the CD-ROM into the CD-ROM drive.
The CD-ROM drive icon appears.
- 3** Double-click the CD-ROM drive icon.
The contents of the CD-ROM appear.
- 4** Double-click the [Mac OS 8 and 9] folder.
- 5** Double-click the [Fonts] folder.
- 6** Double-click the [Screen font] folder.
- 7** Double-click the [TrueType] or [Type1] folder.
Select the font type you want to use.
- 8** Copy the fonts you want to install in [Fonts] under [System Folder].
A confirmation message appears.
- 9** Click [OK].
The fonts are installed.
- 10** Restart the Mac OS.

Changing to EtherTalk

Follow the procedure below to configure to a Mac OS to use EtherTalk.

- 1** Open [Control Panel], and then double-click the AppleTalk icon.
- 2** On the [Connect via:] pop-up menu, click [Ethernet].
- 3** If you change zones, select a name on the [Current zone:] pop-up menu.
- 4** Close the AppleTalk control panel.
- 5** Restart the computer.

Note

- The procedures used to configure Mac OS may vary depending on the Mac OS version. The following describes how to configure Mac OS 9.1. If you are using a different version of Mac OS, use the following procedures as a reference and see the manuals for your Mac OS version.
- Confirm the Connection to the Printer with TCP/IP.

Reference

For information about installing applications required for EtherTalk, see the Mac OS manuals.

Mac OS X

This section explains how to configure a Mac OS X to use EtherTalk and USB. Follow the procedure below to configure Mac OS X 10.1. If you are not using Mac OS X 10.1, see the manual of the Mac OS X you are using for details.

Important

- For Mac OS X 10.1 or higher.

Note

- The PPD files are stored in the following folder on the CD-ROM.

Mac OS X:PPD Installer

Installing the PPD Files

Follow the procedure below to install a PPD file to print from Mac OS X.

Important

- You need an administrator name and a password (phrase). For details, consult your network administrator.

- 1** Insert the CD-ROM into the CD-ROM drive.
- 2** Double-click the CD-ROM drive icon.
- 3** Double-click the [Mac OS X] folder.
- 4** Double-click the [MacOSX PPD Installer] folder.
- 5** Double-click the installer icon.
- 6** Follow the instructions on the screen.

9

Setting Up the PPD File

- 1** Start Printer Setup Utility.
- 2** Click [Add].
 - ❖ **Mac OS X 10.4 or later**
Click [**More Printers...**]. Then select the zone from the second pop-up menu.
 - ❖ **Other Mac OS X**
Click [**AppleTalk**] on the first pop-up menu.
If the zone is set, select the zone from the second pop-up menu.

3 Select the printer, and then select its manufacturer from the [Printer Model:] pop-up menu.

Under Mac OS X 10.4 or later, select the printer you are using from the [Model Name] popup menu.

A list of printer types appears.

4 Select the PPD file for the model you are using, and then click [Add].

5 Quit Printer Setup Utility.

Setting Up Options

1 Start System Preferences.

2 Click [Print & Fax].

3 In the [Printer] list, click the name of the printer you want to use, and then click [Printer Setup...].

4 Select the option you want to set up, and then select an appropriate setting for it.

5 Click [Apply Changes].

 **Note**

If the option you want to select is not displayed, PPD files may not be set up correctly. To complete the setup, check the name of the PPD file displayed in the dialog box.

Using USB Interface

9

Follow the procedure below to setup USB connection.

1 Start Printer Setup Utility.

2 Click [Add].

❖ **Mac OS X 10.4 or later**

Click a printer that has “USB” indicated in the “Connection” column.

❖ **Other Mac OS X**

Click [USB] on the pop-up menu.
The connected printer appears.

3 Select the printer, and then select its manufacturer from the [Printer Model:] pop-up menu.

Under Mac OS X 10.4 or later, you are using from the [Print Using] pop-up menu.
A list of printer types appears.

4 Select the connected printer from the list of printer models, and then click [Add].

5 Quit Printer Setup Utility.

 **Note**

- When printing with a USB connection to a Macintosh computer, printer language does not change automatically. Use the control panel on this printer to change printer language to [Auto Detect] or [PS] before printing.
- USB2.0 can be used only with Mac OS X 10.3.3 or higher.

Using Bonjour (Rendezvous)

Follow the procedure below to print using Bonjour (Rendezvous) under Mac OS X 10.2.3 or higher. Ethernet, wireless LAN connections can also be used.

1 Start Printer Setup Utility.

2 Click [Add].

❖ **Mac OS X 10.4 or later**

Click a printer that has “Bonjour” indicated in the “Connection” column. If the zone is set, click [More Printers...], and then select the zone from the second pop-up menu.

❖ **Other Mac OS X**

Click [Rendezvous] on the pop-up menu. If the zone is set, select the zone from the second pop-up menu.

3 Select the name of the connected printer from the list of printer models, and then click [Add].

Under Mac OS X 10.4 or later, Installable Options window appears. Select the option you want to set up, and then select an appropriate setting for it, and then [Continue].

4 Quit Printer Setup Utility.

 **Note**

- When printing with a Rendezvous connection to a Macintosh computer, printer language does not change automatically. Use the control panel on this printer to change printer language to [Auto Detect] or [PS] before printing.

Changing to EtherTalk

Follow the procedure below to configure a Mac OS X to use EtherTalk.

Important

You need an administrator name and a password (phrase). For details, consult your network administrator

- 1** Open [System Preference], and then click the Network icon.
- 2** Click [Built-in Ethernet] in the [Show:] list box.
- 3** Click the [AppleTalk] tab.
- 4** Select the [Make AppleTalk Active] check box.
- 5** To change AppleTalk zones, select a name from the [AppleTalk Zone:] pop-up menu.
- 6** When the settings are made, click [Apply Now].
- 7** Quit [System Preference].

Reference

For information about installing applications required for EtherTalk, see the Mac OS manuals.

Configuring the Printer

Use the control panel to enable AppleTalk. (The default is active.)

Using PostScript 3

Job Type

Use this to select the type of print job.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Job Type:] on [Job Log] in the print dialog box.
Mac OS X	[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.

Note

- The "User ID:" can contain up to eight alphanumeric (a- z, A- Z, 0- 9) characters.
- Entering the "User ID:" helps you distinguish your print job from others.

Reference

p.285 "Using Sample Print"

❖ Locked Print

Use this function to save documents in the printer memory with a password, and then edit and print them as you want.

Note

- The "User ID:" can contain up to eight alphanumeric (a-z, A-Z, 0-9) characters. The "Password:" must be 4-8 digits.
- Entering the "User ID:" helps you distinguish your print job from others.

Reference

p.287 "Using Locked Print"

❖ 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.

Note

- The "User ID:" can contain up to eight alphanumeric (a- z, A- Z, 0- 9) characters.
- The "File Name" can contain to 16 alphanumeric (a-z, A-Z, 0-9) characters.
- Entering the "User ID:" helps you distinguish your print job from others.

Reference

p.289 "Using Hold Print"

❖ 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.

Note

- The "User ID:" can contain up to eight alphanumeric (a- z, A- Z, 0- 9) characters. The "Password" must be 4-8 digits.
- The "File Name" can contain to 16 alphanumeric (a-z, A-Z, 0-9) characters.
- You can assign a password to a saved document, but password assignment is not mandatory.
- Entering the "User ID:" helps you distinguish your print job from others.

Reference

p.291 "Using Stored Print"

❖ Stored Print

Use this function to prints the file at once and also stores the file in the printer.

Note

- The "User ID:" can contain up to eight alphanumeric (a- z, A- Z, 0- 9) characters. The "Password" must be 4-8 digits.
- The "File Name" can contain to 16 alphanumeric (a-z, A-Z, 0-9) characters.
- You can assign a password to a saved document, but password assignment is not mandatory.
- Entering the "User ID:" helps you distinguish your print job from others.

Reference

p.291 "Using Stored Print"

Using Sample Print

Important

- You need Mac OS X v10.2 or higher to use this function.
- To use this function, the optional hard disk must be 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, make sure that it is not selected before sending a print job. By default, sample print jobs are automatically collated by the printer driver. If the collate option is selected in the application 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.

1 In the application, on the **[File]** menu, click **[Print]**.

The **[Print]** dialog box appears.

9

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]**.

5 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.

If you want to delete a saved job, see "Deleting a Sample Print File".

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

8 Select [Sample Print Jobs], and then press [Job List].

A list of sample print files stored in the printer appears.
User ID, Date/Time and File Name also appear.

9 Select the file you want to print by pressing it.

A list of print files stored in the printer appears.

10 Press [Print] to change the number of sets to be printed.**11** Enter the new number of sets using the number keys.

If you do not want to change the set quantity, perform the following steps.
You can enter up to 999 sets.
Press [Escape] to correct any entry mistakes.

12 Press [Print].

The remaining sets are printed.

 **Note**

- Press [Cancel] to cancel printing.
- When printing finishes, the stored file is deleted.
- To stop printing after printing has started, press the [Job Reset] key. The file will be deleted.
- If there is a print job outstanding, this is printed before the sample print job.

Deleting a Sample Print File

If a printed document is not as required, you can delete the Sample Print file.

9

1 Press [Prt.Jobs].

A list of print files stored in the printer appears.

2 Select [Sample Print Jobs], and then press [Job List].

A list of sample print files stored in the printer appears.

3 Select the file you want to delete by pressing it.

To cancel a selection, press the highlighted jobs again.
Only one file can be selected at a time.

4 Press [Delete].

A confirmation screen appears.

5 Press [Delete] to delete the file.

After the file is deleted the printer screen reappears.
Press [Cancel] to cancel the delete request.

Using Locked Print

Important

- You need Mac OS X v10.2 or higher to use this function.
- To use this function, the optional hard disk must be 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, make sure that it is not selected before sending a print job. By default, locked print jobs are automatically collated by the printer driver. If the collate option is selected in the application 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.

1 In the application, click **[Print]** on the **[File]** menu.

The **[Print]** dialog box appears.

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.

To delete the document, see “Delete a Locked Print File”.

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

A list of print files stored in the printer appears.

7 Select [Locked Print Jobs], and then press [Job List].

A list of locked print files stored in the printer appears.

User ID, Date/Time and File Name also appear.

8 Select the file you want to print by pressing it.

9 Press [Print].

The password screen appears.

10 Enter the password using the scroll keys, and then press [OK].

A confirmation screen appears.

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

11 Press [Print].

The locked file is printed.

 **Note**

Press [Cancel] to cancel printing.

To stop printing after printing has started, press the [Job Reset] key. The file will be deleted.

Deleting a Locked Print File

If a printed document is not as required, you can delete the Locked Print file.

1 Press [Prt.Jobs].

A list of print files stored in the printer appears.

9

2 Select [Locked Print Jobs], and then press [Job List].

A list of locked print files stored in the printer appears.

3 Select the file you want to delete by pressing it.

To cancel a selection, press the highlighted job again.

Only one file can be selected at a time.

4 Press [Delete].

A password screen appears.

5 Enter the password using the scroll keys, and then press [OK].

A confirmation screen appears.

A confirmation screen will reappear if the password was entered incorrectly. Press [Clear] to enter the password again.

When multiple files are selected, the printer deletes only files that correspond to the entered password. The number of files to be deleted is displayed on the confirmation screen.

6 Press [Delete].

After the file is deleted, the printer screen reappears.

Note

- Press [Cancel] to cancel the delete request.

Using Hold Print

Important

- You need Mac OS X v10.2 or higher to use this function.
- To use this function, the optional hard disk must be 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, make sure that it is not selected before sending a print job. By default, Hold print jobs are automatically collated by the printer driver. If the collate option is selected in the application 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.

1 In the application, click [Print] on the [File] menu.

The [Print] dialog box appears.

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.

To delete the document, see "Deleting a Hold Print File".

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

A list of print files stored in the printer appears.

7 Select [**Hold Print Jobs**], and then press [**Job List**].

A list of Hold print files stored in the printer appears.

User ID, Date/Time and File Name also appear.

8 Select the file you want to print by pressing it.

9 Press [**Print**].

The Hold Print file is printed.

 **Note**

- Press [**Cancel**] to cancel printing.
- To stop printing after printing has started, press the [**Job Reset**] key. The file will be deleted.
- When printing is completed, the stored file is deleted.

Deleting a Hold Print File

If a printed document is not as required, you can delete the Hold Print file.

1 Press [**Prt.Jobs**].

A list of print files stored in the printer appears.

2 Select [**Hold Print Jobs**], and then press [**Job List**].

A list of Hold print files stored in the printer appears.

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

3 Select the file you want to delete by pressing it.

To cancel a selection, press the highlighted job again.

Only one file can be selected at a time.

4 Press [**Delete**].

A confirmation screen appears.

5 Press [**Delete**].

After the file is deleted, the printer screen reappears.

 **Note**

- Press [**Cancel**] to cancel the delete request.

Using Stored Print

Important

- You need Mac OS X v10.2 or higher to use this function.
- To use this function, the optional hard disk must be 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, make sure that it is not selected before sending a print job. By default, Stored print jobs are automatically collated by the printer driver. If the collate option is selected in the application 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.

1 In the application, click [**Print**] on the [**File**] menu.

The [**Print**] dialog box appears.

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.

To delete the document, see “Deleting Stored Print File”.

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

A list of print files stored in the printer appears.

7 Select [**Stored Print Jobs**], and then press [**Job List**].

A list of Stored print files stored in the printer appears.

User ID, Date/Time and File Name also appear.

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

8 Select the file you want to print by pressing it.

9 Press [**Print**].

A confirmation screen appears.

If you have already set a password, proceed to the following step.

10 Enter the password using the scroll keys, and then press [**OK**].

A confirmation screen appears.

A confirmation screen will appear if the password is not entered correctly.
Press [**OK**] to enter the password again.

If you have not set the password, proceed to the following step.

11 Press [**Print**].

The Stored file is printed.

 **Note**

Press [**Cancel**] to cancel printing.

Stored Print files sent to the printer is not deleted unless you delete them in the printer or select [**Auto Delete Stored Print Jobs**].

Deleting a Stored Print File

If a printed document is not as required, you can delete the Stored Print file.

1 Press [**Prt.Jobs**].

A list of print files stored in the printer appears.

2 Select [**Stored Print Jobs**], and then press [**Job List**].

A list of Stored print files stored in the printer appears.

3 Select the file you want to delete by pressing it.

To cancel a selection, press the highlighted job again.

4 Press [**Delete**].

A confirmation screen appears.

5 Enter the password using the scroll keys, and then press [OK].

A confirmation screen appears.

A confirmation screen will reappear if the password was entered incorrectly. Press [OK] to enter the password again.

6 Press [Delete].

After the file is deleted, the printer screen reappears.

Note

- Press [Cancel] to cancel the delete request.
- If you have already set a password in the printer driver, enter it to delete.

User Code

Use this to set a user code for print logging.

Enter a user code using up to eight digits. A user code identifies a group of users and allows you to check the number of sheets printed under each code with SmartDeviceMonitor for Admin.

The following table shows the tabs or menus where you can select this function.

Mac OS	Select the [Enable User Code] check box, and then enter a user code in the [User Code:] box on [Job Log] in the print dialog box.
Mac OS X	Select the [Enable User Code] check box, and then enter a user code in the [User Code:] box on [Job Log] in the print dialog box.

Paper Size

9

Use this to select the size of paper you want to use.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Paper:] on the [Page Attributes] tab in the Page Setup dialog box.
Mac OS X	[Paper Size:] in the Page Setup dialog box.

Reference

For details about the paper sizes supported by this printer, see Hardware Guide.

Fit to Paper

When the size of the document and paper size differ, set whether or not to print according to paper size.

Mac OS	[Fit to Paper] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Fit to Paper] on the [Features x] tab 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

When the paper size is smaller than the size of document to be printed, print is adjusted to meet the paper size.

Input Slot

Use this to select the paper sources.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Paper Source:] on [General] in the print dialog box.
Mac OS X	[Paper Feed] in the print dialog box.

🔍 Reference

For details about the paper sources, see Hardware Guide.

Resolution

Use this to set the resolution types.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Resolution] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Resolution] on the [Features x] tab on [Printer Features] in the print dialog box.

🔍 Reference

For more information about the resolution types, see Hardware Guide.

Orientation Override

Use this to set the paper orientation.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Orientation Override] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Orientation Override] on the [Features x] tab on [Printer Features] in the print dialog box.

You can select the following items:

- Off
- Landscape
- Portrait

Duplex Printing

Use this function to select duplex printing.

Important

To use this function, the optional duplex unit must be installed on the printer.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Print on Both Sides] on [Layout] in the print dialog box.
Mac OS X	<ul style="list-style-type: none"> • 10.3 or higher The [Two Sided Printing] check box on [Layout] in the print dialog box. • Other Mac OS X The [Print on both Sides] check box on [Duplex] in the print dialog box.

❖ None

Disables duplex printing.

❖ Flip on Long Edge

Prints so you can open it to the long edge when bound along the long edge.

❖ Flip on Short Edge

Prints so you can open it to the short edge when bound along the short edge.

Color Mode

Use this function to select whether the document is printed in color or black and white.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Color Mode] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Color Mode] on the [Features x] tab on [Printer Features] in the print dialog box.

❖ Color

Prints color documents in full color.

Note

- Color images are printed using CMYK toner, Cyan, Magenta, Yellow, and Black. CMYK represents the three primary subtractive colors.
- If you want to adjust the print color, use the settings in the Advanced dialog box accessed from the Advanced button on the [Print Quality] tab.

❖ Black and White

Prints everything, including color documents, in black and white. Black and White printing is faster than Color. To stop black and white areas being printed with CMYK toner, select [Black and White] in the printer driver as well as in the application.

Gradation

Use this function to select a type of gradation suited to your requirements.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Printer Specific Options] in the print dialog box.
Mac OS X	[Gradation] on the [Features x] tab on [Printer Features] in the print dialog box.

❖ Fast

Prints quickly but loses smoothness.

❖ Standard

Prints with good gradation.

Color Profile

Use this function to select the color profile pattern.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Color Profile] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Color Profile] on the [Features x] tab on [Printer Features] in the print dialog box.

❖ Auto

Use this setting to automatically configure the best color profile pattern based on the appearance of the document to be printed.

❖ Photographic

Use this setting to enhance reproduction of photos and graphics that include midtones.

❖ Presentation

Use this setting to enhance reproduction of documents containing text and graphics. This CRD is best for printing colored charts, graphs, presentation materials and so on. If you use this CRD for printing photographs, color and gradation might not reproduce so well.

❖ Solid Color

Use this setting to print specific single colors, logos and so on.

❖ User Setting

Use this setting to print images using a CRD downloaded from your application.

❖ CLP Simulation

Prints the output colors similar to the colors displayed on the computer screen.

Note

- Use this function to select a color rendering dictionary (CRD). The CRD is referred to color matching, so you should select the appropriate CRD for the document you are printing. The selected CRD is also referred to when [Fine] or [Fine] is selected for "Colour Setting". The following items are available: [Auto], [Photographic], [Presentation], and [Solid Color].

Color Setting

Use this function to select the correction method used for color conversion.

Important

The color rendering dictionary selected in the Color Profile setting is used. The following table shows the tabs or menus where you can select this function.

Mac OS	[Color Profile] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Color Profile] on the [Features x] tab on [Printer Features] in the print dialog box.

❖ Off

No modification to the color setting.

❖ Fine

Select this setting to perform color matching based on the printer's built-in color rendering dictionaries, and to perform CMYK conversion. This setting performs printing at an output target of Monitor $\gamma = 1.8$.

❖ Super Fine

Select this setting to use a color rendering dictionary similar to the Fine setting but is capable of producing output that is more vivid. Use this setting to emphasize lighter colors. This setting performs printing at an output target of Monitor $\gamma = 2.2$.

Note

Use this function to select a color rendering dictionary (CRD). The CRD is referred to color matching, so you should select the appropriate CRD for the document you are printing. The selected CRD is also referred to when [Fine] or [Super Fine] is selected for "Color Setting". The following items are available: [Auto], [Photographic], [Presentation], and [Solid Color].

Toner Saving/Level Color

Use this function to reduce the amount of toner used when printing.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Toner Saving] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Toner Saving] on the [Features: Set x] tab on [Printer Features] in the print dialog box.

Reference

For details about this function, see printer driver Help.

Collate

Use this function to enable collation. With this feature, the printer can efficiently print collated sets of multiple-page documents.

Important

- To use this function, a memory unit of at least 192 MB or hard disk drive must be installed on the printer.
- If you are using Mac OS or Mac OS X, make sure that the following check boxes have not been selected.
 - Mac OS
The **[Collate]** check box in the print dialog box.
 - Mac OS X
The **[Collate]** check box on **[Copies & Pages]** in the printer dialog box.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Collate] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Collate] on the [Features: Set x] tab on [Printer Feature] in the printer dialog box.

Paper Type

Use this to select the paper type.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Paper Type] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Paper Type] on the [Features: Set x] tab on [Printer Features] in the print dialog box.

Reference

For details about the media type supported by this printer, see **Hardware Guide**.

Black Over Print

Select whether or not to apply a black color over any other colors when printing.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Black Over Print] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Black Over Print] on the [Features: Set x] tab on [Printer Features] in the print dialog box.

Image Smoothing

Use this to select the image smoothing type.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Image Smoothing] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Image Smoothing] on the [Features: Set x] tab on [Printer Features] in the print dialog box.

❖ 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 - 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.

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.

Separate into CMYK

Use this to select the print separation type.

You can separate the printing data into CMYK to specify a specific color combination.

Mac OS	[Separate into CMYK] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Separate into CMYK] on the [Features: Set x] tab on [Printer Features] in the print dialog box.

CMYK Simulation Profile

You can simulate the color tone of the printing ink.

You can select the printing ink standard from US OffsetPrint, Euroscale, Japan-Color and PaletteColor.

Mac OS	[CMYK Simulation Profile] on [Printer Specific Options] in the print dialog box.
Mac OS X	[CMYK Simulation Profile] on the [Features: Set x] tab on [Printer Features] in the print dialog box.

Dithering

Use this function to set the Image Rendering mode.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Dithering] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Dithering] on the [Features: Set x] tab on [Printer Features] in the print dialog box.

You can select 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 half tone in your application.

Gray Reproduction

Use this function to select Black Color mode for text and line art.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Gray Reproductions (Text/LineArt)] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Gray Reproductions (Text/LineArt)] on the [Features: Set x] tab on [Printer Features] in the print dialog box.

❖ Black by K

Select this setting to use a black toner.

❖ Black/Gray by K

Black portions are printed in gray.

❖ CMY+K

Select this setting to use all toners.

❖ Black/Gray by K (Text only)

Prints black text in gray.

❖ Black by K (Text only)

Prints text using black toner.

Color Matching

Use this function to select whether or not you want the colors in the documents to be adjusted before printing, so that the printed page matches the colors on the screen closer.

9

❖ Image Color Control

Open the [Image Color Matching] dialog box, and then click this button to specify exactly how you want the colors on your screen adjusted before printing.

Printer Utility for Mac

By using Printer Utility for Mac, you can download fonts, change the name of the printer and so on.

Important

If a Macintosh and printer are connected by USB, you cannot use Printer Utility for Mac.

Note

Printer Utility for Mac is included on the CD-ROM labeled "Printer Drivers and Utilities".

Printer Utility for Mac requires Mac OS 7.6.1-9.x, or Mac OS X 10.1.x or 10.2.1. Mac OS X 10.0.x and 10.2 are not supported.

Installing Printer Utility for Mac

Follow these steps to install Printer Utility for Mac on the printer.

1 Start the Macintosh.

2 Insert the CD-ROM into the CD-ROM drive.

The CD-ROM icon appears.

3 Double-click the CD-ROM icon.

The contents of the CD-ROM appear.

4 Double-click the [Mac OS 8 and 9] icon to open it.

Under Mac OS X, double-click the [Mac OS X] folder.

5 Double-click the [PS Utility] folder on the CD-ROM, and then drag the [Printer Utility for Mac] file, and then drop it into the Macintosh hard disk.

6 Drag the CD-ROM icon and drop it into [Trash] to eject the CD-ROM.

Printer Utility for Mac is installed.

Note

Printer Utility for Mac is included on the CD-ROM labeled "Printer Drivers and Utilities".

Printer Utility for Mac requires Mac OS 8.1 or higher. (Mac OS X Classic environment is supported.)

Printer Utility for Mac cannot use Mac OS X (native mode).

Starting Printer Utility for Mac

Mac OS

Important

Before starting Printer Utility for Mac, make sure the printer is selected in **[Chooser]** on the Apple menu.

1 Double-click the Printer Utility for Mac icon.

The **[Printer Utility for Mac]** dialog box appears.

2 Click [OK].

Printer Utility for Mac will take a few seconds to start.

Mac OS X

1 Double-click the Printer Utility for Mac icon.

The **[Printer Utility for Mac]** dialog box appears.

2 Click [OK].

3 In the [Available Printers:] box, select the printer you want to use.

If you change zones, select a name from **[Available Network Zones:]**.

Click **[Choose Printer...]** on the Printer Utility for Mac menu if you want to change the printer.

4 Select the printer you want to use.

Printer Utility for Mac will take a few seconds to start.

5 Click [Choose].

Printer Utility for Mac Functions

Downloading PS Fonts

You can download the PS fonts to the printer memory or hard disk drive.

Important

- The following procedure to download the fonts assume that you are a system administrator. If you are not, be sure to consult your system administrator.
- During the download, do not turn off the power switch, operate the panel or open or close the cover.
- If the printer restarts, all the printer settings return to the defaults.
- Confirm that a Macintosh and the printer are connected with Appletalk.

1 Select [Download PS Fonts...] on the [File] menu.

2 Click [Add to list].

The dialog box to select fonts appears.

3 Select the desired font files, and then click [Open].

The list of selectable font names appears.

4 After adding all the fonts you want to download, click [OK].

The dialog box of selected fonts to download appears.

5 Click [Download].

The fonts begin to download, and the download status is shown.

6 When the completion message appears, click [OK].

7 Click [Cancel].

Note

- Some fonts cannot be downloaded.
- Before downloading, read the documentation about the fonts you want to use.

9

Displaying Printer Fonts

You can display the available fonts currently downloaded to the printer. Fonts in the printer memory and hard disk drive can be displayed.

1 Select [Display Printer's Fonts...] on the [File] menu.

A dialog box appears.

2 Select [Printer's memory] or [Printer's disk].

3 Click [OK].

Note

- The fonts displayed in italics are the default fonts.

Deleting Fonts

You can delete fonts from the printer's memory or hard disk drive.

Important

You cannot delete the fonts displayed in italic.

1 Select [Display Printer's fonts] on the [File] menu.

A dialog box appears.

2 Select [Printer's memory] or [Printer's disk].

3 Select the fonts you want to delete.

4 Click [Delete].

A confirmation message appears.

5 Confirm the fonts you want to delete and the printer name from which you want to delete the fonts.

6 Click [Continue], and then click [OK].

7 Click [OK].

Initializing the Printer Disk

When initializing the printer hard disk, all the fonts downloaded to the printer hard disk drive are deleted. Before initializing, be sure to check the fonts on the hard disk drive.

Important

When initializing the printer hard disk drive from the control panel, all of the data on the printer hard disk drive is deleted. Before initializing, be sure to check the data on the hard disk drive.

Do not turn off the power switch until initializing is completed, otherwise the hard disk drive might be damaged.

1 Select [Initialize Printer's Disk...] on the [File] menu.

The confirmation message appears. To cancel initialization, click [Cancel].

2 Click [Execute].

Initializing starts.

3 When the completion message appears, click [OK].

Page Setup

You can set the paper size on which to print "Print Fonts Catalogue" and "Prints Fonts Sample".

1 Select [Page Setup...] on the [File] menu.

2 Select the paper size.

3 Click [OK].

Printing Font Catalog

You can print the names of fonts available on the printer.

1 Select [Print Fonts Catalog...] on the [File] menu.

2 Click [Print].

 **Note**

The paper selected under [Page Setup] is used.

Printing Font Sample

You can print samples of fonts downloaded to the hard disk drive or memory.

1 Select [Print Fonts Sample...] on the [File] menu.

2 Click [Print].

 **Note**

Print by using the paper selected on [Page Setup].

Renaming the Printer

You can change the printer name displayed under Appletalk. If you connect several printers on the network, assign different names so you can identify them. If several printers have the same name, a digit appears next to the printer name in [Chooser].

 **Important**

You can enter up to 31 digits and letters.

Do not use symbols, for example "*", ":", "=", "@", "~".

Mac OS

1 On the [File] menu, click [Rename Printer...].

2 In the [New Name:] field enter a new name.

3 Click [Rename].

The printer name is changed.

4 Click [OK].

5 On the Apple menu, click [Chooser].

6 Click the [AdobePS] icon.

7 Select the printer whose name you changed, and then close the [Chooser] dialog box.

If there are several AppleTalk zones, select the zone the printer belongs to.

Mac OS X

1 On the [File] menu, click [Rename Printer...].

2 In the [New Name:] field enter a new name.

3 Click [Rename].

The printer name is changed.

4 Click [OK].

5 On the [Printer Utility for Mac] menu, click [Choose Printer...].

6 In the [Available Network Zones:] list, select the zone for the Macintosh in use.

7 In the [Available Printers:] list, select the printer whose name you changed, and then click [Choose].

Restarting the Printer

You can restart the printer.

1 Select [Restart Printer] on the [File] menu.

2 Confirm the message that appears on the screen, and then click [Restart].

The printer restarts.

The fonts downloaded in the printer memory will be deleted.

If the printer restarts, all the printer settings return to the defaults.

9

Downloading PostScript Files

You can download a Postscript file to the printer.

1 Select [Download PostScript File...] on the [Utility] menu.

2 Select the file name to download, click the file name, and then click [Open].

3 Type the log file name, and then click [Save].

The selected file is downloaded.

Errors are recorded in the log file.

Selecting the Zone

You can change the zone to which the printer belongs under Appletalk.

 **Important**

Confirm that a Macintosh and printer are connected with Appletalk.

Mac OS

1 On the [Utility] menu, click [Select Zone...].

The zone to which the printer belongs and the available zone list appear.

2 Select the zone in which you want to locate the printer, and then click [Change].

A confirmation message appears.

3 Click [Continue].

A confirmation message appears.

4 Click [OK].

5 On the Apple menu, click [Chooser].

6 Click the [AdobePS] icon.

7 In the [AppleTalk zone:] list, select the zone you changed.

8 In the [Select a PostScript Printer:] list, select the printer you want to use.

9 Close the [Chooser] dialog box.

Mac OS X

9

1 On the [Utility] menu, click [Select Zone...].

The zone to which the printer belongs and the available zone list appear.

2 Select the zone which you want to locate the printer in, and then click [Change].

A confirmation message appears.

3 Click [Continue].

A confirmation message appears.

4 Click [OK].

5 On the [Printer Utility for Mac] menu, click [Choose Printer...].

6 In the [Available Network Zones:] list, select the zone you changed.

7 In the [Available Printers:] list, select the model of printer in use, and then click [Choose].

Displaying the Printer Status

You can display and confirm the current status of the printer.

1 Select [Display Printer Status...] on the [Utility] menu.

The current status of the printer appears.

2 Confirm the current status of the printer.

You can confirm the memory capacity, the VM (Virtual Memory) space, the hard disk drive status and available space on the hard disk drive. You can also confirm the zone to which the printer belongs.

3 Click [OK].

Launching the Dialogue Console

You can create and edit a PostScript file for printing, and then download it to the printer.

Important

- “Launch Dialogue Console” is recommended for users with an understanding of PostScript.
- Do not download any file other than PostScript files to the printer.
- “Launch Dialogue Console” must be used at your own responsibility.

1 Select [Launch Dialogue Console...] on the [Utility] menu.

Open the editing screen. The Dialogue Console menu bar appears.

2 Type the PostScript command in the editor screen.

To edit a PostScript file, select [Open] on the [File] menu to open it.

You can search or replace a character string by using the [Search] menu.

3 After editing the PostScript file, select [Download Top Window] on [Console] menu to start printing.

The PostScript file is sent to the printer.

The [Reply from Printer] box opens, depending on the PostScript file you sent.

4 Select [Return To Main Menu] on the [Console] menu to close the PostScript file.

10. Security Measures Provided by this Printer

Using Authentication and Managing Users

This section explains how to improve this printer's security.

The setting can be done only by the administrator.

❖ Enabling Authentication

To control administrators' and users' access to the printer, perform administrator authentication and user authentication using login user names and login passwords. To perform authentication, the authentication function must be enabled.

❖ Specifying Authentication Information to Log on

Users are managed using the personal information managed in the printer's address book.

Enabling user authentication limits usage of printer to people registered in the address book to use the printer. Users can be managed in the address book by the user administrator.

❖ Specifying Which Functions are Available

This can be specified by the user administrator. Specify the functions available to registered users. By making this setting, administrators can limit the functions available to users.

Preventing Information Leaks

❖ Guarding Against Unauthorized Copying (Unauthorized Copy Prevention)

Using the printer driver, mask and pattern can be embedded in the printed document.

❖ Guarding Against Unauthorized Copying (Data security for copying)

Using the printer driver with the data security for the copying function, a document can be printed with an embedded pattern of hidden text.

To gray out the copy or stored file of a copy-guarded document when the document is copied or stored, the optional security module is required.

❖ Printing confidential files

Using the printer's Locked Print, files can be stored in the printer as confidential files and then print them. Those file can be printed using the printer's control panel and collected on the spot to prevent others from seeing it.

❖ Preventing Data Leaks Due to Unauthorized Transmission

You can specify in the address book which users are allowed to send files using the scanner or fax function.

You can also limit the direct entry of destinations to prevent files from being sent to destinations not registered in the address book.

❖ Protecting Registered Information in the Address Book

This function allows administrator to specify which users have permission to access the data in the address book. Usage of the data in the address book by unregistered users can be prevented.

Administrator can also encrypt the data in the address book to protect the data from unauthorized reading.

❖ Managing Log Files

Data security can be improved by deleting log files stored in the printer. By transferring the log files, administrator can check the history data and identify unauthorized access.

To transfer the log data, the log collection server is required.

❖ Overwriting the Data on the Hard Disk

Before disposing of the printer, make sure all data on the hard disk is deleted. Prevent data leakage by automatically deleting transmitted printer jobs from memory.

To overwrite the hard disk data, the optional ipp unit is required.

Limiting and Controlling Access

❖ Preventing Modification or Deletion of Stored Data

Users with access permission to stored files can be specified. Permit selected users who have to access permissions to stored files to modify or delete the files.

❖ Preventing Modification of Printer Settings

The printer settings that can be modified depend on the type of administrator account.

Register the administrators so that users cannot change the administrator settings.

❖ Limiting Available Functions

This function allows administrator to specify which users have accessibility to each of the printer's functions, to prevent unauthorized operation.

Enhanced Network Security

❖ Preventing Unauthorized Access

Limit IP addresses or disable ports to prevent unauthorized access over the network and protect the address book, stored files, and default settings.

❖ Encrypting Transmitted Passwords

Prevent login passwords, group passwords for PDF files, and IPP authentication passwords being revealed by encrypting them for transmission.

Also, encrypt the login password for administrator authentication and user authentication.

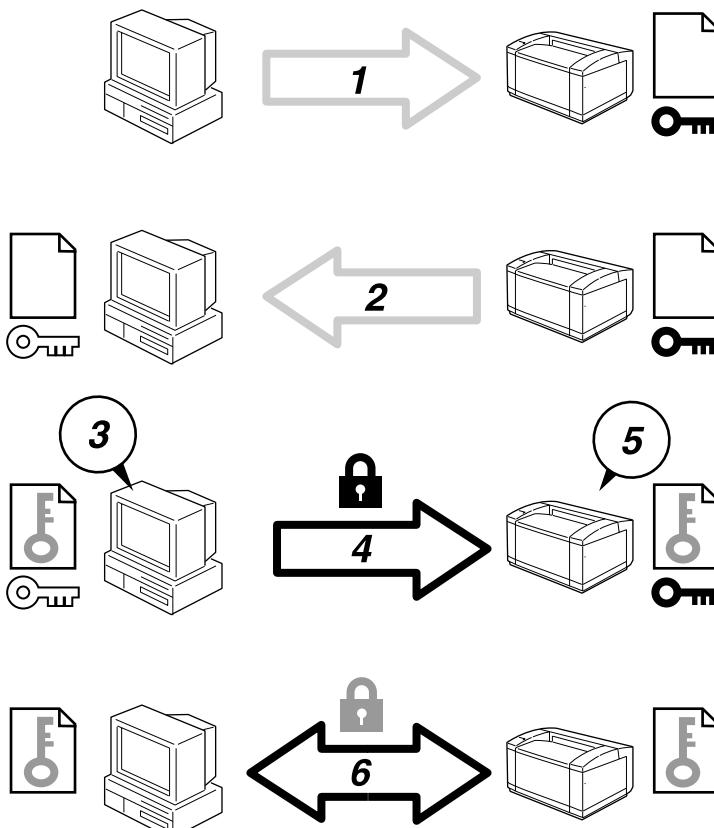
Configuring SSL Encryption

When accessing the printer using a Web Image Monitor or IPP, encrypted communication can be established using SSL. When accessing the printer using an application such as SmartDeviceMonitor for Admin, encrypted communication can be established using SNMPv3 or SSL.

To protect data from interception, analysis, and tampering, install a server certificate in the printer, negotiate a secure connection, and encrypt transmitted data.

Important

- When using SSL, the optional hard disk or the data storage card are required.
- ❖ **SSL (Secure Sockets Layer)**



AQC899S

- ① To access the printer from a user's computer, request for the SSL server certificate and public key.
- ② The server certificate and public key are sent from the printer to the user's computer.
- ③ Create shared key from the user's computer, and then encrypt it using public key.
- ④ The encrypted shared key is sent to the printer.

- ⑤ The encrypted shared key is decrypted in the machine using private key.
- ⑥ Transmit the encrypted data using the shared key, and then decrypt the data at the machine to attain secure transmission.

 **Note**

- To establish encrypted communication using SSL, the printer must have the printer and scanner functions.

11. Appendix

Software and Utilities Included on the CD-ROM

The following softwares and utilities are included in the CD-ROMs that come with the printer.

❖ **Font Manager 2000**

For installing new screen fonts, or organizing and managing fonts already in the system. For details about Font Manager 2000, see the manual on the CD-ROM labeled "Printer Drivers and Utilities".

❖ **SmartDeviceMonitor for Admin**

For the system administrator to manage network printers.

Reference

SmartDeviceMonitor for Admin Help.

❖ **DeskTopBinder - SmartDeviceMonitor for Client**

For users to manage their network print status.

Reference

DeskTopBinder - SmartDeviceMonitor for Client Help.

❖ **USB Printing Support**

For connection to Windows 98 SE/Me computers via USB.

Viewing the contents of the CD-ROM

Follow the procedure below to view the contents of the CD-ROM.

1 Insert the CD-ROM into the CD-ROM drive.

The installer starts.

2 Click [Browse This CD-ROM].

Explorer starts and displays the contents of the CD-ROM.

Printer Drivers for This Printer

Printing requires installing a printer driver appropriate to your operating system. The following drivers are included on the CD-ROM provided with this printer.

❖ PCL 5c/6 printer driver

This printer driver allows the computer to communicate with the printer via a printer language.

The following operating system is supported.

- Windows 95/98/Me, Windows 2000/XP, and Windows Server 2003

 **Note**

- For Windows NT 4.0, Service Pack 6 or higher is required.

❖ RPCS printer driver

This printer driver allows the computer to communicate with the printer using a printer language. In addition to the conventional user interface, another preset user interface is provided.

The following operating system is supported.

- Windows 95/98/Me, Windows 2000/XP, and Windows Server 2003

❖ PostScript Printer Drivers and PPD files

PostScript printer drivers and the PPD files are included on the CD-ROM provided with this printer. PostScript printer drivers allow the computer to communicate with the printer using a printer language. PPD files allow the printer driver to enable specific printer functions.

The following operating system is supported.

- Windows 95/98/Me, Windows 2000/XP, Windows Server 2003, Mac OS, and Mac OS X

 **Note**

- The PostScript printer drivers and PPD files are included on the CD-ROM labeled "Printer Drivers and Utilities".
- For Mac OS, version 8.6 or higher is required. (Mac OS X Classic environment is supported.)

❖ PPD files

PPD files are included on the CD-ROM provided with this printer. PPD files allow the printer driver to enable specific printer functions.

SmartDeviceMonitor for Admin

SmartDeviceMonitor for Admin is an application that uses TCP/IP and IPX/SPX to monitor network printers. It can monitor multiple network printers using IP address. We recommend that network administrators use this application.

❖ File path

SmartDeviceMonitor for Admin is stored in the following folder on the CD-ROM.

NETWORK\DEVMON\ADMIN\DISK1

Operating system	Protocol stack
Windows 95/98/Me	TCP/IP provided with Windows 95/98/Me IPX/SPX provided with Windows 95/98/Me NetWare Client provided with Windows 95/98 Novell Client provided with Windows 95/98
Windows 2000	TCP/IP provided with Windows 2000 IPX/SPX provided with Windows 2000 NetWare Client provided with Windows 2000 Novell Client provided with Windows 2000 or Window NT
Windows XP	TCP/IP provided with Windows XP IPX/SPX provided with Windows XP NetWare Client provided with Windows XP Novell Client provided with Windows XP
Windows Server 2003	TCP/IP provided with Windows Server 2003 IPX/SPX provided with Windows Server 2003 NetWare Client provided with Windows Server 2003 Novell Client provided with Windows Server 2003
Windows NT 4.0	TCP/IP provided with Windows NT IPX/SPX provided with Windows NT Client Service for NetWare provided with Windows NT Novell Client provided with Windows 2000 or Windows NT

❖ Available functions

SmartDeviceMonitor for Admin has the following functions to check:

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

🔍 Reference

For information about using SmartDeviceMonitor for Admin, see SmartDeviceMonitor for Admin Help.

DeskTopBinder - SmartDeviceMonitor for Client

SmartDeviceMonitor for Client has the following functions. We recommend that users install this application.

- Printing in a peer-to-peer network, using TCP/IP, and IPP from Windows 95/98/Me/2000/XP, Windows Server 2003, and Windows NT 4.0.
- Constantly monitoring the status of devices on the network using TCP/IP and IPX/SPX.

❖ File path

SmartDeviceMonitor for Client is stored in the following folder on the CD-ROM.

NETWORK\DEVMON\CLIENT\DISK1

Operating system	Protocol stack
Windows 95/98/Me	TCP/IP provided with Windows 95/98/Me IPX/SPX provided with Windows 95/98/Me NetWare Client provided with Windows 95/98/Me Novell Client provided with Windows 95/98/Me
Windows 2000	TCP/IP provided with Windows 2000 IPX/SPX provided with Windows 2000 NetWare Client provided with Windows 2000 Novell Client provided with Windows 2000 or NT
Windows XP	TCP/IP provided with Windows XP IPX/SPX provided with Windows XP NetWare Client provided with Windows XP Novell Client provided with Windows XP
Windows Server 2003	TCP/IP provided with Windows Server 2003 IPX/SPX provided with Windows Server 2003 NetWare Client provided with Windows Server 2003 Novell Client provided with Windows Server 2003
Windows NT 4.0	TCP/IP provided with Windows NT IPX/SPX provided with Windows NT Client Service for NetWare provided with Windows NT Novell Client provided with Windows 2000 or Windows NT

❖ Available functions

SmartDeviceMonitor for Client has the following functions.

- Peer-to-peer print function
- Prints directly on the network printer without sending any data to a print server.
- Prints on a substitute printer when there are too many jobs waiting on the specified printer, or when an error disables printing (Recovery Printing).
- Allocates multiple print jobs to multiple printers (Parallel Printing).
- Executes prior group registration of printers specified for Recovery Printing or Parallel Printing.

- Notification function
 - Displays an error message when there is an error on the specified printer while transferring or printing data.
 - Notifies a print completion. You can also be notified of the print condition, such as displaying the notice only when Recovery Printing is executed.
- Monitoring function
 - Checks printer supplies such as paper or toner.
 - Simultaneously monitors multiple printers in use.
 - Checks the printer's network settings and detailed information of printers.
 - Enables you to check the print job log using the user ID

Important

- For Recovery Printing or Parallel Printing, the options on the printers must be the same. If a necessary option is not installed, a printer cannot be used for Recovery Printing or Parallel Printing.
- For Recovery Printing or Parallel Printing, the paper loaded in the printers must be the same. When a tray is selected for printing, load the same paper in that tray in all printers.
- For Recovery Printing or Parallel Printing, the print results may be different if the printers are not the same model or have exactly the same options.
- If you select Sample Print or Locked Print, you cannot select Recovery Printing or Parallel Printing.

Reference

For details about using SmartDeviceMonitor for Client, see SmartDeviceMonitor for Client Help.

Cautions to Take When Using in a network

Connecting a Dial-up Router to a Network

When the NetWare file server and printer are on opposite sides of a router, packets are sent back and forth, causing communication charges to be incurred. Because packet transmission is a specification 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 that they do not pass over the dial-up router.

Note

- The MAC address of the printer doing the filtering is printed on the printer configuration page. For details about printing a configuration page, see p.147 "Printing a Configuration Page".
- For details about configuring the printer if the router cannot be configured, see the instructions below.

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.

Reference

For details about selecting a frame type, see p.168 "NW Frame Type".

Configuring the printer without NetWare

- 1** When not printing, the network interface board sends packets over the network. Set NetWare to "inactive".

Reference

For details about selecting protocols, see p.167 "Host Interface menu parameters".

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.

Note the following points when an Ethernet interface is simultaneously installed.

❖ When static IPv4 addresses are set for each interface

- IPv4 address: When set at the same value, the Ethernet interface is preferred.
- Subnet mask: When a value overlaps, the Ethernet interface is preferred.
- Gateway address: The value set is used. For the gateway address, set the gateway address located in the subnetwork set by the interface. If the value is outside the subnet range set by the interface, it operates as "0.0.0.0".

❖ When obtaining addresses from the DHCP server

- IP Address, Subnet Mask: you can configure addresses assigned by a DHCP server. If IPv4 addresses overlap or the same subnet IP addresses are selected, the effective value is assigned only to the prioritized interface. Ethernet has default interface priority.
- AutoNet: A temporary IPv4 address starting with 169.254 and not used on the network, is assigned to the prioritized interface.
- Gateway Address, DNS Server Address, and Domain Name: You can configure the addresses assigned by DHCP to the prioritized interface. If the gateway address is beyond the range of the subnet selected for the interface, the printer operates using "0.0.0.0".
Ethernet has default interface priority.

❖ When there are static IPv4 addresses and addresses assigned by DHCP

- IPv4 Address and subnet mask: if a static IPv4 address is the same as an address assigned by DHCP, or the static subnet mask address and the subnet mask address assigned by DHCP overlap, the printer uses the static IPv4 address in interface. The interface with the DHCP setting is set by default.
- Gateway Address: operates using the address entered manually. If a static address is not selected, or is set to 0.0.0.0, the interface using the address assigned by DHCP is used.

Note

- NetBIOS name on a WINS server must be configured for the WINS server.
- Supported DHCP servers are Microsoft, and then press the with Windows 2000 Server, Windows Server 2003, and Windows NT 4.0, 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 IPv4 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.

Using AutoNet

If the printer IPv4 address is not assigned by a DHCP server automatically, a temporary IPv4 address starting with 169.254, which is not used on the network, can be automatically selected by the printer.

You must change this setting to "on" to use AutoNet.

 **Note**

- 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.148 "Interpreting the configuration page".
- 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.

 **Reference**

See p.201 "autonet".

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 SmartDeviceMonitor for Admin even in a DHCP environment.

This section explains configuring the WINS server.

 **Note**

- The WINS server is supported with Windows NT 4.0 Server Service Pack 4 or higher, and Windows 2000 Servers WINS Manager.
- 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

1 Start a Web browser.

2 Enter "http://(printer's address)://" in the address bar to access the printer whose settings you want to change.

Top Page of Web Image Monitor appears.

3 Click [Login].

The dialog box for entering the user name and password appears.

4 Enter the user name and password, and then click [OK].
 Contact your network administrator for information about the settings.

5 In the left area, click [Configuration], and then click [Network].

6 Click [TCP/IP].

7 Check that [Enable] is selected for [WINS] in the [Ethernet+IEEE 802.11b] column, and then enter the WINS server IPv4 address in [Primary WINS Server] and [Secondary WINS Server].

8 Click [Apply].

9 Quit Web Image Monitor.

Using telnet

See p.199 "Using telnet".

Using the Dynamic DNS Function

Dynamic DNS is a function which dynamically updates (registers and deletes) records (A record 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.

 **Note**

- 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.

❖ For a static IP 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 IEEE 802.11b
 RNPXXXXXX (XXXXXX represents the last 3 hexadecimal bytes of the MAC address)

❖ For DHCP 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 IEEE 802.11b
RNPXXXXXX (XXXXXX represents the last 3 hexadecimal bytes of the MAC address)

Important

- Dynamic update using message authentication (TSIG, SIG(0)) is not supported.

DNS servers targeted for operation

❖ For static IP setting

- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003 features
- BIND 8.2.3 or higher

❖ For DHCP setup, when the printer updates the A record

- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003 features
- BIND 8.2.3 or higher

❖ For DHCP setup, when the DHCP server updates records

- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003 features
- BIND 8.2.3 or higher
- DNS servers with standard NetWare 5 (or a higher version) features

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 2000 Server (Service Pack 3 or higher versions)/Windows Server 2003 features
- ISC DHCP 3.0 or higher
- DHCP server with standard NetWare 5 features

Setting the dynamic DNS function

Make settings with telnet using the “dns” command. For details, see p.206 “dns”.

Installing Font Manager 2000

Important

□ Under Windows 2000/XP, Windows Server 2003, or Windows NT 4.0, installing applications by Auto Run requires administrator permission. To install a printer driver by Auto Run, log on using an account that has administrator permission.

- 1** Quit all applications currently running.
- 2** Insert the CD-ROM into the CD-ROM drive.
The installer starts.
- 3** Click [Font Manager 2000].
- 4** Follow the instructions on the screen.

Using Adobe PageMaker Version 6.0, 6.5, or 7.0

Under Windows 95/98/Me/2000/XP, Windows Server 2003, or Windows NT 4.0 with Adobe PageMaker, you need to copy PPD files to the PageMaker folder.

PPD files have the .ppd extension in the folder “DRIVERS\PS\WIN9X_ME\Language\DISK1\” on the CD-ROM.

The “WIN9X_ME” folder inside the “PS” folder is for Windows 95/98/Me. Use the folder at this level that is appropriate for the operating system you are currently using.

The third folder “(Language)” may be substituted by an appropriate language name.

Copy the .ppd file to the PageMaker folder.

- **For PageMaker 6.0 default installation**
The directory is “C:\PM6\RSRC\PPD4”.

- **For PageMaker 6.5 default installation**
The directory is “C:\PM65\RSRC\USENGLISH\PPD4”.
The “USENGLISH” may vary depending on your language selection.

- **For PageMaker 7.0 default installation**
The directory is “C:\PM7\RSRC\USENGLISH\PPD4”.
The “USENGLISH” may vary depending on your language selection.

Note

- If the driver is not set correctly after copying the “.ppd” file, printing may not be performed properly.
- When using PageMaker, the optional features that can be selected by the printer driver will not be active. The following procedure describes how to activate the optional printer features.
 - ① On the **[File]** menu, click **[Print]**.
The **[Print Document]** dialog box appears.
 - ② Make the necessary settings in the **[Features]** box.

When Using Windows Terminal Service/ MetaFrame

The following explains how to use Windows Terminal Service and Maintenance.

Operating Environment

The following operating systems and MetaFrame versions are supported.

❖ Windows NT Server 4.0 Terminal Server Edition with SP6 or higher

- MetaFrame 1.8 SP3/FR1+SP3/SP4
- MetaFrame XP 1.0 SP1/SP2/FR1

❖ Windows 2000 Server/Advanced Server

- MetaFrame 1.8 SP3/FR1+SP3/SP4
- MetaFrame XP 1.0 SP1/SP2/SP3/SP4/FR1/FR2/FR3
- MetaFrame Presentation Server 3.0
- Citrix Presentation Server 4.0

❖ Windows Server 2003

- MetaFrame XP 1.0 FR3
- MetaFrame Presentation Server 3.0
- Citrix Presentation Server 4.0

Supported Printer Drivers

❖ When Windows Terminal Service is operating

- PCL printer drivers
- PostScript 3
- RPCS drivers

Note

Some RPCS printer driver functions do not work if Windows Terminal Service is installed.

11

Limitations

The following limitations apply to the Windows Terminal Service environment. These limitations are built in Windows Terminal Service or MetaFrame.

❖ Windows Terminal Service

In an environment where Windows Terminal Service is installed, some printer driver functions are unavailable, even if no Windows Terminal Service functions are used. Use the install mode to install SmartDeviceMonitor for Client in an environment where Terminal Service is running on a Windows NT Server 4.0 Terminal Server Edition or Windows 2000 Server family computer. The following are the two methods of installation using the install mode:

- ① Use **[Add/Remove Programs]** in **[Control Panel]** to install SmartDeviceMonitor for Client.

- ② Enter the following command in the MS-DOS command prompt:

CHANGE USER /INSTALL

To quit the install mode, enter the following command in the MS-DOS command prompt:

CHANGE USER /EXECUTE

🔍 Reference

For more information, see Windows Help.

❖ MetaFrame's [Auto-creating client printers]

Using **[Auto-creating client printers]**, you can select a logical printer created by copying the client's local printer data to the MetaFrame server. 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.
- When using MetaFrame XP 1.0 or higher versions, we recommend making settings in **[Client Printer bandwidth]** under **[Citrix Management Console]** according to the environment.
- If a print error occurs on the server and the print job or a printer created in **[Auto-creating client printers]** cannot be deleted, we recommend the following:
 - MetaFrame 1.8 SP3, MetaFrame XP 1.0 SP1/FR1
Make settings in **[Delete unfinished print jobs]** in the registry. For details, see the Readme file provided with MetaFrame.
 - MetaFrame XP 1.0 FR2
Make settings in **[Delete pending print jobs at logout]** under **[Printer Properties Management]** of Citrix Management Console.

❖ MetaFrame's [Printer driver replication]

Using **[Printer driver replication]**, you 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.

Cautions When Using Bluetooth Interface Unit

The optional Bluetooth interface unit operation mode is set to [**Public**] as default. If the setting is changed to [**Private**], only registered computers can use this printer via the Bluetooth interface unit.

Check the operation mode settings using Web Image Monitor or telnet.

🔗 Reference

For details about using Web Image Monitor, see p.173 “Using Web Image Monitor”. For details about setting items, see Web Image Monitor Help.

For details about making operation mode settings using telnet, see p.203 “bt-config”.

Copyright Information about Installed Applications

expat

Use of the software installed on this product, including the controller (hereinafter "software") and the expat Version 1.95.2 application software (hereinafter "expat 1.95.2"), is subject to the following conditions:

The product manufacturer provides warranty and support to the software of the product including expat 1.95.2 and the product manufacturer allows the initial developer of expat 1.95.2 to be free from these obligations.

Copyright © 1998, 1999, 2000 Thai Open Source Software Center Ltd

and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Note

Information on expat 1.95.2 is available at:

<http://expat.sourceforge.net/>

JPEG LIBRARY

- The software installed on this product is based in part on the work of the Independent JPEG Group.

NetBSD

Copyright Notice of NetBSD

For all users to use this product:

This product contains NetBSD operating system:

For the most part, the software constituting the NetBSD operating system is not in the public domain; its authors retain their copyright.

The following text shows the copyright notice used for many of the NetBSD source code. For exact copyright notice applicable for each of the files/binaries, the source code tree must be consulted.

A full source code can be found at <http://www.netbsd.org/>.

Copyright © 1999, 2000 The NetBSD Foundation, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- ① Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- ② Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- ③ All advertising materials mentioning features or use of this software must display the following acknowledgment:
This product includes software developed by the NetBSD Foundation, Inc. and its contributors.
- ④ Neither the name of The NetBSD Foundation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Authors Name List

All product names mentioned herein are trademarks of their respective owners. The following notices are required to satisfy the license terms of the software that we have mentioned in this document:

- This product includes software developed by the University of California, Berkeley and its contributors.
- This product includes software developed by Jonathan R. Stone for the NetBSD Project.
- This product includes software developed by the NetBSD Foundation, Inc. and its contributors.
- This product includes software developed by Manuel Bouyer.
- This product includes software developed by Charles Hannum.
- This product includes software developed by Charles M. Hannum.
- This product includes software developed by Christopher G. Demetriou.
- This product includes software developed by TooLs GmbH.
- This product includes software developed by Terrence R. Lambert.
- This product includes software developed by Adam Glass and Charles Hannum.
- This product includes software developed by Theo de Raadt.
- This product includes software developed by Jonathan Stone and Jason R. Thorpe for the NetBSD Project.
- This product includes software developed by the University of California, Lawrence Berkeley Laboratory and its contributors.
- This product includes software developed by Christos Zoulas.
- This product includes software developed by Christopher G. Demetriou for the NetBSD Project.
- This product includes software developed by Paul Kranenburg.
- This product includes software developed by Adam Glass.
- This product includes software developed by Jonathan Stone.
- This product includes software developed by Jonathan Stone for the NetBSD Project.
- This product includes software developed by Winning Strategies, Inc.
- This product includes software developed by Frank van der Linden for the NetBSD Project.
- This product includes software developed for the NetBSD Project by Frank van der Linden
- This product includes software developed for the NetBSD Project by Jason R. Thorpe.
- The software was developed by the University of California, Berkeley.
- This product includes software developed by Chris Provenzano, the University of California, Berkeley, and contributors.

Samba(Ver 2.2.2-1.1)

Copyright © Andrew Tridgell 1994-1998

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

RSA BSAFE®



- This product includes RSA BSAFE® cryptographic or security protocol software from RSA Security Inc.
- RSA is a registered trademark and BSAFE is a registered trademark of RSA Security Inc. in the United States and/or other countries.
- RSA Security Inc. All rights reserved.

INDEX

A

Access Control, 200
appletalk
 telnet, 201
AutoNet, 324
Autonet
 telnet, 201

B

Black Over Print, 299
Bluetooth
 telnet, 203
Bonjour, 202

C

Cancelling a job
 Windows, 108
canceling a print job
 Mac OS, 109
Cautions When Using
 Bluetooth Interface Unit, 331
Changing the Network Interface Board
 Configuration
 SmartDeviceMonitor for Admin, 182
Changing the Paper Type
 SmartDeviceMonitor for Admin, 183
Changing to EtherTalk, 277, 281
CMYK Simulation Profile, 301
Collate, 112, 299
Color Matching, 302
Color Mode, 296
Color Profile, 297
Color Setting, 298
Configuring a WINS Server
 Web browser, 324
 Web Image Monitor, 324
Configuring SSL Encryption, 315
Configuring the Energy Saver Mode
 SmartDeviceMonitor for Admin, 187
Configuring the WINS Server, 324
Control keys, 88
Control panel
 hold print, 95
 locked print, 92
 sample print, 89
 stored print, 98
Creating a Desktop Printer Icon
 Mac OS, 274

D

Deleting a Hold Print File, 290
Deleting a Locked Print File, 288
Deleting a Sample Print File, 286
Deleting a Stored Print File, 292
Deleting Fonts, 306
DHCP, 204, 323
Dial-up Router, 322
Direct Printing from a Digital Camera, 119
Displaying Printer Fonts, 305
Displaying the Printer Status, 310
Displaying Web Image Monitor Help, 179
Dithering, 301
DNS, 206
dns
 telnet, 206
Domain Name, 207
Downloading PostScript Files, 308
Downloading PS Fonts, 305
Duplex Printing, 295

E

Error log, 110

F

Fit to Paper, 294
Font Manager 2000, 327
Functions
 Printer Utility for Mac, 305

G

Getting Printer Information over the
 Network, 231
Going to the Top Page
 Web Image Monitor, 175
Gradation, 296
Gray Reproduction, 302

H

Hold Print, 283
Hold print
 deleting, 98
 printing, 96
Host Interface, 166
Host Name, 208

IEEE 802.11b, 226

ifconfig, 209

Image Smoothing, 300

info, 210

information

Network Interface Board configuration,
239

Network interface board configuration,
217

print job, 238

print log, 238

system log, 224, 246

Initializing Printer Disk, 306

Input Slot, 294

Installing, 303

Printer Utility for Mac, 303

SmartDeviceMonitor for Admin, 181

Installing Adobe Type Manager

Mac OS, 276

Installing Screen fonts

Mac OS, 277

Installing the ColorSync Profiles

Mac OS, 275

Installing the PostScript 3 Printer Driver
and PPD File

Mac OS, 273

Installing the PPD Files

Mac OS X, 278

Installing the Printer Driver

Quick Install, 1

Installing the Printer Driver Using USB

Windows 2000, 39

IPP, 210

ipv6, 211

J

Job Spool, 222

Job Type, 283

L

Language Menu, 172

Launching the Dialogue Console, 310

Level Color, 298

List Per User ID

printing all print jobs, 104
printing the selected print job, 103

List/Test Print, 147

Locked Print, 283

Locked print

deleting, 94

printing, 93

Locking the Menus on the Printer's
Control Panel

SmartDeviceMonitor for Admin, 183

lpr, 211

M

Mac OS, 273, 285, 287, 289, 291, 295, 296,
297, 298, 301, 302, 304

Mac OS X, 278, 295, 296, 297, 298, 301,
302, 304

Maintenance Menu, 140

Managing User Information

SmartDeviceMonitor for Admin, 184

Memory Capacity and Paper Size, 116

Memory Erase Status Menu, 134

menu, changing, 172

Menu Chart, 131

message, 246

MIB, 230

N

netware, 211

NetWare 5/5.1, 257, 259

NetWare 6/6.5, 257, 259

Notify by e-mail function, 193

PageMaker, 328
 Page Setup, 306
 Paper Input Menu, 135
 Paper Settings Menu, 156
 Paper Size, 293
 Paper Type, 299
 passwd, 213
 Password, 213
 PDF Direct Print, 77
 Printing a PDF File Directly, 77
 Printing Method, 77
 PictBridge, 119
 Camera Memo Printing, 126
 Color Matching, 126
 Date and File Name Printing, 123
 Exiting PictBridge, 127
 Form Printing, 126
 Image Print Size, 124
 Index Printing, 122
 Other Reference Information, 129
 Paper Size, 123
 PictBridge Printing, 120
 Printing Quality, 126
 Print Number of Pages, 125
 Trimming, 123
 What Can Be Done on This printer, 122
 What is PictBridge?, 119
 When PictBridge Printing Does Not Work, 128
 PostScript 3, 283
 printer driver, 318
 Printer Status Notification by E-mail
 Notify by e-mail function, 193
 Printer Utility for Mac, 303, 304, 305, 306, 307, 308, 309, 310
 Printing a Configuration Page, 147
 Printing Commands
 Printing Files Directly from Windows, 269
 Printing Files Directly from Windows, 267
 Printing Font Catalog, 307
 Printing Font Sample, 307
 Printing with Bluetooth Connection
 Windows, 48
 Printing with Parallel Connection
 Windows 2000, 44
 Print Job List, 85
 prnlog, 213
 Pure IP, 259

remote printer, setup
 NetWare4.x, 5/5.1, 6/6.5, 263
 Renaming the Printer, 307
 Resolution, 294
 Restarting the Printer, 308
 route, 213

Sample Print, 283
 Sample print
 deleting, 91
 printing, 90
 Security Options, 164
 Selecting the Zone, 309
 Separate into CMYK, 300
 set, 215
 Setting a Password
 SmartDeviceMonitor for Admin, 187
 Setting Up as a Print Server, 259
 NetWare3.x, 256
 NetWare 4.x, 257
 Setting Up as a Remote Printer
 NetWare3.x, 261
 NetWare4.x, 5/5.1, 6/6.5, 263
 Setting Up Options
 Mac OS, 275
 Mac OS X, 279
 Setting Up PPD Files
 Mac OS, 274
 Setting Up the PPD File
 Mac OS X, 278
 Setup
 Printing Files Directly from Windows, 267
 show, 217
 slp, 217
 SmartDeviceMonitor for Admin, 319
 Installing, 181
 SmartDeviceMonitor for Client, 320
 smb, 218
 SNMP, 230
 snmp, 219
 sntp, 222
 spoolsw, 222
 SSL (Secure Sockets Layer), 315
 status
 telnet, 224
 Stored Print, 283
 Stored print
 deleting, 101
 printing, 99
 System Menu, 151

T

- TCP/IP address, 209
- telnet, 199
 - Autonet*, 201
 - WINS, 229
- Toner Saving, 298
- Types of Menu Configuration and Mode
 - Web Image Monitor*, 177

U

- Unauthorized copy control, 81
 - data security for copying*, 81
 - mask type*, 83
- User Code, 293
- Using a Host Name Instead of an IP Address
 - Printing Files Directly from Windows*, 268
- Using Hold Print, 289
- Using Locked Print, 287
- Using Rendezvous
 - Mac OS X*, 280
- Using Sample Print, 285
- Using Stored Print, 291
- Using the Dynamic DNS Function, 325
- Using USB Interface
 - Mac OS X*, 279

W

- Web Image Monitor, 173
- Windows
 - canceling a job*, 108
- Windows 2000
 - printer properties, PCL*, 56
 - printer properties, PostScript 3*, 71
 - printer properties, RPCS*, 63
- Windows 95/98/Me
 - printer properties, PCL*, 55
 - printer properties, PostScript 3*, 70
 - printer properties, RPCS*, 62
- Windows NT 4.0
 - document defaults, PCL 5c*, 60
 - document defaults, PostScript 3*, 75
 - document defaults, RPCS*, 68
 - printer properties, PCL*, 59
 - printer properties, PostScript 3*, 74
 - printer properties, RPCS*, 67
- Windows Server 2003
 - printer properties, PCL*, 58
 - printer properties, PostScript 3*, 73
 - printer properties, RPCS*, 65
- Windows XP
 - printer properties, PCL*, 58
 - printer properties, PostScript 3*, 73
 - printer properties, RPCS*, 65
- WINS
 - telnet*, 229

Operating Instructions Software Guide

