



Introduction10
How to Read This Manual.....12
Checking the Network Environment14
 Print Server Configuration..... 15
 Netware Configuration 16

1. Combined Function Operations

Copy Mode17
 Changing to Copy Mode..... 17
 Interrupt copying to make urgently needed copies..... 18
Document Server Mode20
 Printing the Stored Documents in the Document Server..... 20
 Storing Documents in the Document Server 21
 Interrupt the Operating Function and Start Storing 23
Facsimile Mode25
 Changing to Facsimile Mode..... 25
Printer Mode.....26
 Changing to Printer Mode 26
 Printing 27
Scanner Mode28
 Changing to Scanner Mode 28
 Using the Network TWAIN Scanner..... 28
 Using the Network Delivery Scanner 29
 Interrupting Scanning 30
Multi-Access.....33





2. Windows 2000 Print Server Configuration

Configuring Protocols	35
Configuring TCP/IP and IPP for Printing.....	35
Configuring NetBEUI for Printing	37
Installing Software.....	39
Installing SmartNetMonitor for Client	39
Installing the PCL 5c or RPCS Printer Driver.....	40
Installing the PostScript Printer Driver.....	45
Changing Port Settings	49
Setting Up Options	51
Settings for Printer Share	54

3. Windows XP Print Server Configuration

Configuring Protocols	55
Configuring TCP/IP and IPP for Printing.....	55
Installing Software.....	58
Installing SmartNetMonitor for Client	58
Installing the PCL 5c or RPCS Printer Driver.....	59
Installing the PostScript Printer Driver.....	64
Changing Port Settings	68
Setting Up Options	69
Settings for Printer Share	72





4. Windows NT 4.0 Print Server Configuration

Configuring Protocols	73
Configuring TCP/IP and IPP for Printing.....	73
Configuring NetBEUI for Printing	75
Installing Software.....	77
Installing SmartNetMonitor for Client	77
Installing the PCL 5c or RPCS Printer Driver.....	78
Installing the PostScript Printer Driver.....	83
Changing Port Settings	87
Setting Up Options	88
Settings for Printer Share	91

5. NetWare Configuration

NetWare 3.x - Advanced Settings.....	93
Installing SmartNetMonitor for Admin	94
Setting Up as a Print Server.....	94
Setting Up as a Remote Printer.....	96
NetWare 4.x, 5/5.1, 6 - Advanced Settings	100
Installing SmartNetMonitor for Admin	101
Setting Up as a Print Server.....	101
Setting Up as a Remote Printer.....	105



6. Document Server

Overview	109
Process	111
Relationship between Document Server and Other Functions	112
Features and Benefits	113
On Demand Printing	113
File Merge Printing.....	115
Facsimile Resend	117
Operation from a Computer.....	118
Scanning Originals	119
Scanning in Document Server Mode	119
Printing Saved Documents	125
Sample Copy.....	129
Print First Page	130
Deleting Saved Documents	133
Searching Saved Documents	135
To Search by File Name	135
To Search by User Name.....	136
To Check the Details of Stored Documents	138



7. User Tools (System Settings)

Accessing the User Tools (System Settings)	140
Changing the Settings	140
Exiting from the User Tools	141
User Tools Menu (System Settings)	142
Settings You Can Change with the User Tools	149
General Features	149
Tray Paper Settings	153
Timer Setting	158
Interface Settings/Network	162
Interface Settings/Parallel Interface	163
Interface Settings/IEEE 1394	165
Interface Settings/IEEE 802.11b	167
File Transfer.....	169
Key Operator Tools	171
User Code	177
Changing the User Code	182
Clearing the User Code.....	184
To delete all user codes.....	187
To display the counter for each user code	189
Printing the Counter.....	191
Clearing the Counter.....	194
Entering Text	198
Available Characters.....	198
Keys	199
How to Enter Text	200



8. Using SmartNetMonitor for Admin

Installing SmartNetMonitor for Admin	203
Changing the Network Interface Board Configuration.....	204
Changing Names and Comments	206
Displaying Printer Status.....	209
Locking Menus on the Printer's Control Panel	210
Changing the Paper Type	211
Managing the Number of Copies to be Printed	212
Configuring Energy Save Mode	213
Setting a Password.....	214

9. Using a Web Browser

Going to the Top Page.....	216
Configuring the Network Interface Board Settings	217
Changing Names and Comments	222
Displaying Printer Status.....	225





10. Making Printer Settings Using the Control Panel

Menu Chart	226
Accessing the Printer Features	229
Exiting from the Printer Features	230
Paper Input Menu	231
Paper Input Parameters	231
Specifying a custom paper size.....	232
List/Test Print Menu	235
List/Test Print Parameters.....	235
Printing a Configuration Page	236
Interpreting the Configuration Page	237
Maintenance Menu	240
Maintenance Menu Parameters	240
Changing the Maintenance Menu	242
System Menu	243
System Parameters	244
Changing the System Menu	249
Host Interface Menu	250
Host Interface Parameters	250
Changing the Host Interface Menu	251
PCL/PS Menu	252
PCL/PS Parameters	253
Changing the PCL/PS Menu.....	257



11. Appendix

SNMP	258
Spool Printing	259
Remote Maintenance by telnet	261
Using telnet.....	261
Commands List	262
Getting Printer Information over the Network	288
Printer current status	288
Printer configuration	293
Understanding the Displayed Information	297
Print Job Information	297
Print Log Information	298
Configuring the Network Interface Board	299
Message List	304
System Log Information	304
Precautions	313
Connecting a Dial Up Router to a Network.....	313
PostScript Printing from Windows	315
NetWare Printing	315
Using DHCP	317
Configuring a WINS Server	318
Other Functions	321
Changing the Display Language.....	321
Displaying the Total Counter.....	321
Memory Capacity and Paper Size	323



Specifications.....	325
Mainframe.....	325
Options.....	330
Information about Installed Software	338
expat.....	338
JPEG LIBRARY.....	339
NetBSD.....	339
INDEX	343





Introduction

To get maximum versatility from this machine all operators should carefully read and follow the instructions in this manual. Please keep this manual in a handy place near the machine.

Please read the Safety Information before using this machine. It contains important information related to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS.

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.

Software Version Conventions Used in This Manual

- NetWare 3.x means NetWare 3.12 and 3.2.
- NetWare 4.x means NetWare 4.1, 4.11 and IntranetWare.

Trademarks

Apple, AppleTalk, EtherTalk, LaserWriter, Macintosh are registered trademarks of Apple Computer, Inc.

Ethernet is a registered trademark of Xerox Corporation.

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

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

Novell, NetWare, NDS are registered trademarks of Novell, Inc.

PostScript is a registered trademark of Adobe Systems, Incorporated.

PCL is a registered trademark of Hewlett-Packard Company.





Solaris is a trademark or registered trademark of Sun Microsystems, Inc. in the United States and other countries.

Bluetooth is a Trademark of the Bluetooth SIG, Inc. (Special Interest Group) and licensed to RICOH Company Limited.

Copyright © 2001 Bluetooth SIG, Inc.

The Bluetooth Trademarks are owned by Bluetooth SIG, Inc. USA

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights to 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[®] XP are as follows:
 - Microsoft[®] Windows[®] XP Professional
 - Microsoft[®] Windows[®] XP Home Edition
- 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 NT[®] 4.0 are as follows:
 - Microsoft[®] Windows NT[®] Server 4.0
- Microsoft[®] Windows NT[®] Workstation 4.0



How to Read This Manual

Symbols

In this manual, the following symbols are used:

WARNING:

This symbol indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

CAUTION:

This symbol indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury, or damage to property.

* The statements above are notes for your safety.

Important

If this instruction is not followed, paper might be misfed, or data might be lost. Be sure to read this.

Preparation

This symbol indicates the prior knowledge or preparations required before operating.

Note

This symbol indicates precautions for operation, or actions to take after mal-operation.

Limitation

This symbol indicates numerical limits, functions that cannot be used together, or conditions in which a particular function cannot be used.

Reference

This symbol indicates a reference.





[]

Keys that appear on the machine's display.

Keys and buttons that appear on the computer's display.

【 】

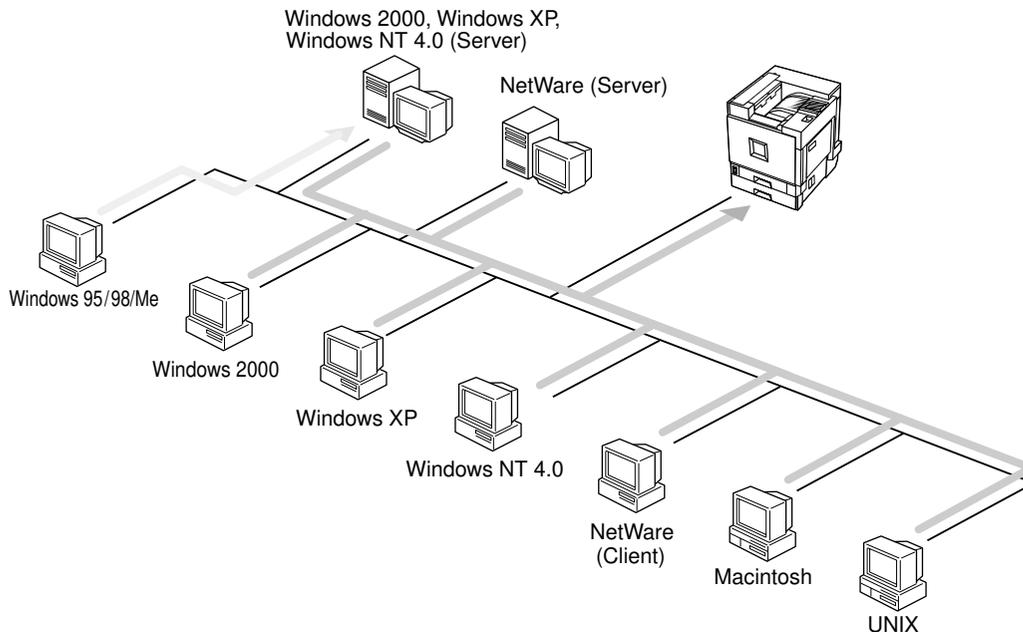
Keys built into the machine's control panel.

Keys on the computer's keyboard.





Checking the Network Environment



❖ Connecting Printer and Computer

- Network connection (Ethernet cable, IEEE 1394 cable (IP over 1394), IEEE 802.11b (wireless LAN))
- Parallel connection (parallel cable)

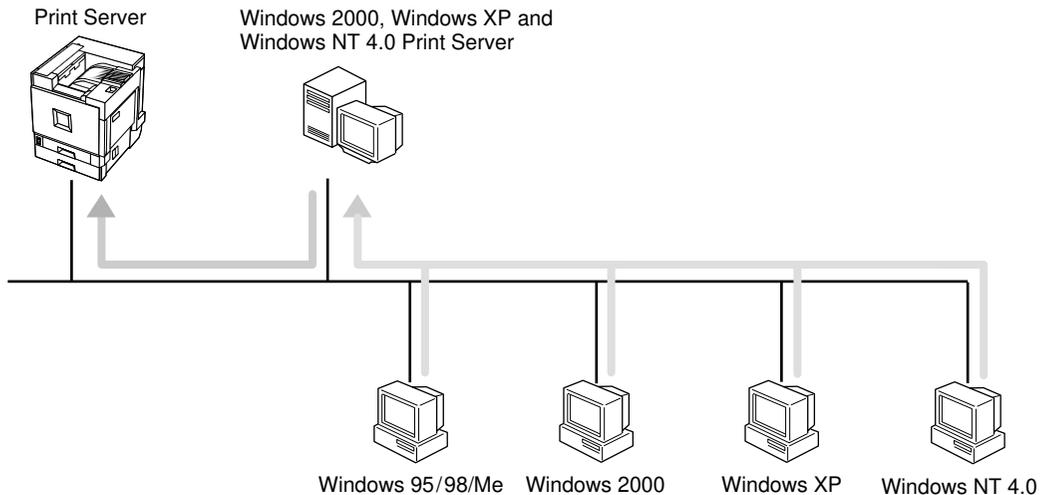




- USB connection (USB cable)
- IEEE 1394 (SCSI print) connection (IEEE 1394 cable)
- Bluetooth™ connection

Print Server Configuration

You can use Windows 2000, Windows XP, or Windows NT 4.0 as a Print Server.



See [p.35 “Windows 2000 Print Server Configuration”](#).

See [p.55 “Windows XP Print Server Configuration”](#).

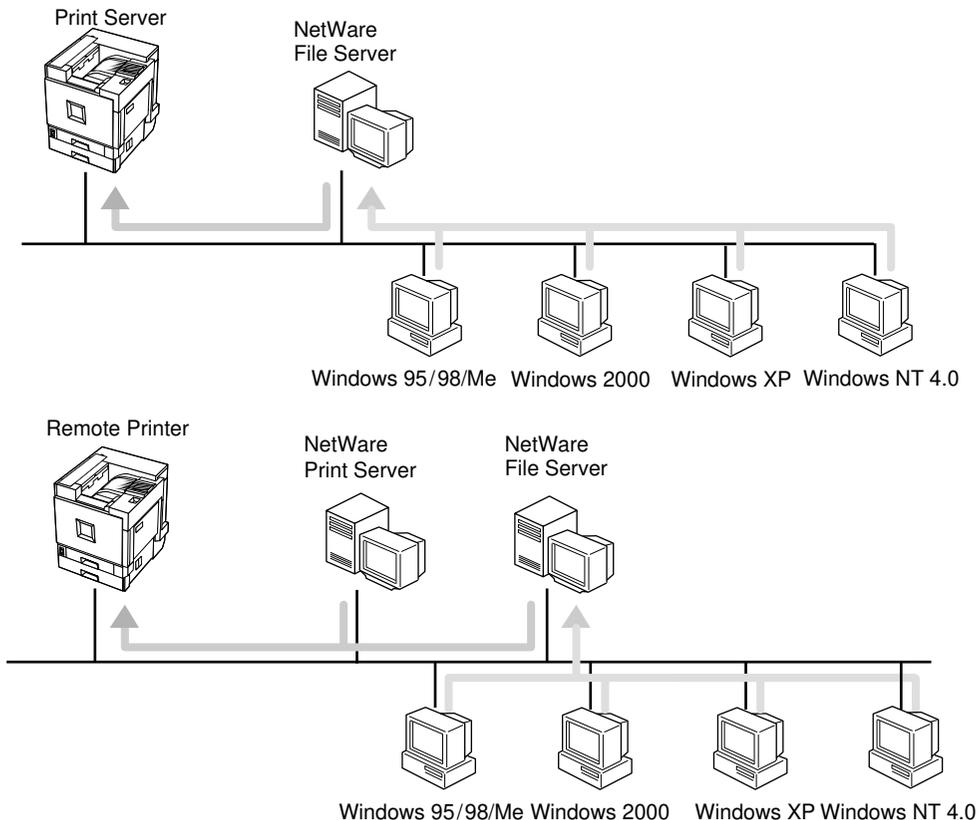
See [p.73 “Windows NT 4.0 Print Server Configuration”](#).





Netware Configuration

To set the machine up as a network printer in a NetWare environment. The network interface board allows you to use the machine as a print server or remote printer.



See p.92 “NetWare Configuration”.



1. Combined Function Operations

Copy Mode

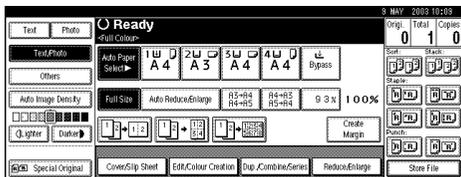
You can make basic copies, and enlarge/reduce, combine, or use other various functions to make copies. You can also add options to further increase the number of functions; For more details, see *Copy Reference*.

Changing to Copy Mode

You can always make a copy when the machine isn't printing or scanning originals for faxes.

1 Press the **[Copy]** key.

The copier display appears on the panel display.



Reference

For more information, see *Copy Reference <Basic Features>*.



Interrupt copying to make urgently needed copies

You can interrupt the current job to make a copy.

Note

- The display may vary depending on the settings described on [p.140 “User Tools \(System Settings\)”](#).

Limitation

- You cannot use the interrupt copy function in the following cases:
 - During fax immediate transmission
 - While scanning an original for memory transmission
 - During interrupt copying

When Scanning in the Copy or Document Server

During copying or scanning into the document server, you can use the following procedure to interrupt the current job and make a copy.

Limitation

- During interrupt copying, you cannot perform another interrupt copying.

1 Press the **[Interrupt]** key

If the machine is scanning originals, the scanning job will stop immediately and the interrupt display will appear on the panel display.

2 Remove the previous original and place the new original to be done by interrupt copying.

3 Press the **[Start]** key.

Interrupt copying starts.





4 After interrupt copying is complete, remove the original and delivered copies.

5 Press the **[Interrupt]** key again.

The display shown before interrupt copying started reappears.

6 Replace the previous original, and then press the **[Start]** key.

The previous job settings will be restored and the machine will continue from where it left off.

Printing with Copier, Document Server, Facsimile or Printer

During printing, you can use the following procedure to interrupt the current job and make a copy.

1 Press the **[Interrupt]** key.

The interrupt display appears on the panel display.

 **Note**

- Printing does not stop yet.

2 Place the originals used for interrupt copying, and then press the **[Start]** key.

Printing stops and interrupt copying starts.

3 When copying is complete, remove the originals and the copies.

4 Press the **[Interrupt]** key.

The display shown before interrupt copying started reappears.

5 Press the **[Start]** key.





Document Server Mode

The Document Server stores scanned copies and scanned documents for faxing. You can also combine stored jobs and print them.

In addition, you can forward stored fax transmissions.

Limitation

- The Document Server function requires the optional Hard Disk Unit.

Note

- If you want to re-send fax documents, go back to the Facsimile display.

Reference

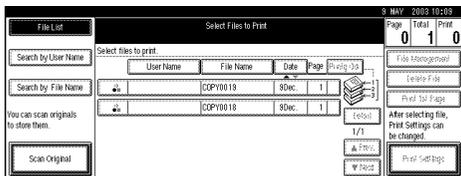
For more information about the Document Server, see [p.109 “Document Server”](#).

Printing the Stored Documents in the Document Server

You can print the stored documents in the Document Server while using other functions.

1 Press the **[Document Server]** key.

The Document Server display appears on the panel display.





2 Select the desired documents, and then press the **[Start]** key.

 **Note**

- If the optional SR770 (2 Tray Finisher) or PT460 (Multi-bin) is installed on the machine, you can specify an output tray to which to deliver documents. For more information, see [p.140 “User Tools \(System Settings\)”](#).

Storing Documents in the Document Server

Storing Documents in the Document Server

1 Place originals.

2 Press the **[Document Server]** key.

The Document Server display appears on the panel display.

3 Press **[Scan Original]**.

4 Press the **[Start]** key.

Documents are stored for the Copier function.

Storing Documents while Copying

You can copy while storing files.

1 Place originals.

**2** Press the **[Copy]** key.

The Copier display appears on the panel display.

3 Press **[Store File]**, and then press **[OK]**.**4** Press the **[Start]** key.

Both copying and storing documents will be started.

Storing Documents from the Fax Display

You can select to store and transmit documents at the same time or store documents only.

! **Limitation**

- Documents stored with the Facsimile function do not appear in the file list of the Document Server display. For more information, see *Facsimile Reference <Advanced Features>*.

1 Place originals.**2** Press the **[Facsimile]** key.

The Facsimile display appears on the panel display.

3 Press the **[Store File]** key.**4** Press **[Store & Transmit]** or **[Store only]**, and then press the **[OK]** key.**5** If you selected **[Store & Transmit]**, enter the numbers. If you selected **[Store only]**, go to step **6**.



6 Press the **[Start]** key.

If you selected **[Store & Transmit]**, the machine starts storing documents and transmitting them. If you selected **[Store only]**, the machine starts storing documents.

Reference

For more information about this function, see "*Using the Document Server*", *Facsimile Reference <Advanced Features>*.

Interrupt the Operating Function and Start Storing

Even if another function is operating, you can use the Document Server.

Refer to the following procedure.

While Copying

1 Press the **[Clear/Stop]** key.

Copying is interrupted, and a confirmation dialog box appears.

2 Press **[Stop]**.

3 Remove the originals.

4 Press the **[Document Server]** key.

The Document Server display appears on the panel display.

5 Place originals to be stored.



6 Press **[Scan Original]**.

7 Press the **[Start]** key.

The machine starts storing documents.

 **Note**

- After using the Document Server, press the **[Copy]** and **[Start]** key to resume the interrupted job.



Printer Mode

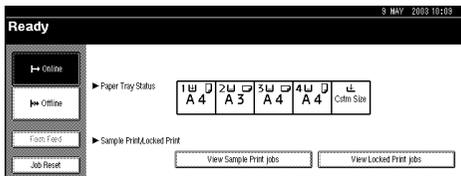
Changing to Printer Mode

To print from an application being run on a personal computer, you need not switch to Printer mode on this machine. You must switch to Printer mode, however, to perform the following operations:

- Form Feed
- Job Reset
- Sample Print
- Locked Print

1 Press the **[Printer]** key.

The Printer display appears on the panel display.





Printing

The machine can receive print data while another mode is functioning.

 **Note**

- If “Function Priority” in the System Settings is not set as “Printer”, printing is done after the current job. For more information, see [p.140 “User Tools \(System Settings\)”](#).

1 **Print the job from your computer.**

Printing starts.

 **Note**

- If User Codes have been set for the Printer function as described in Administrator Reference Copier System Edition, you must enter your User Code from the Printer Driver.



Scanner Mode

Changing to Scanner Mode

This optional Scanner Unit has two scanner functions: “Network TWAIN Scanner” and “Network Delivery Scanner”.

Reference

To configure the function priority, see *Scanner Reference*.

Limitation

- In the following cases, the machine cannot be used as a scanner.
 - While scanning originals for copying
 - While scanning a fax message for transmission
 - During Immediate Fax transmission

Using the Network TWAIN Scanner

- 1** Place originals.
- 2** Configure the scan options using the computer.
- 3** Start the scan.

Reference

For more information, see *Scanner Reference*.

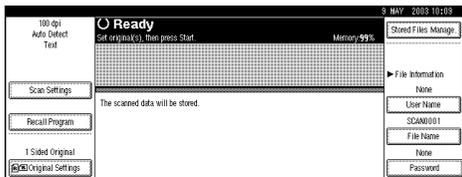




Using the Network Delivery Scanner

- 1** Place originals.
- 2** Press the **[Scanner]** key.

The Scanner display appears on the panel display.



- 3** Specify **[Scan Settings]**, **[Original Settings]** and **[Recall Program]**.
- 4** Press the **[Start]** key.

Reference

For more information, see *Scanner Reference*.



Interrupting Scanning

If you want to scan while copying or faxing, follow the procedure below.

Scanning while copying

Usually, you cannot use this machine as a scanner until it finishes copying.

1 Press the **[Clear/Stop]** key.

Copying is interrupted, and a confirmation dialog box appears.

2 Press **[Stop]**.

3 Remove the originals.

4 Place originals to be scanned.

5 Start the scan.

 **Note**

- When the scan is completed, press the **[Copy]** key and restart copying.



Scanning while scanning a fax message for memory transmission

Usually, you cannot use the Scanner function until scanning a fax message for memory transmission is completed.

1 Press **[Clear/Stop]** key.

The fax message scan is interrupted.

 **Note**

- When using Quick Memory delivery, previously scanned originals will be delivered. For more information, see *Facsimile Reference*.

2 Remove the originals.

3 Place originals to be scanned.

4 Start the scan.

 **Note**

- When the scan is completed, press the **[Facsimile]** key and restart faxing.
- 



Scanning while performing immediate fax transmission

Usually, you cannot use the Scanner function while the machine is performing immediate fax transmission.

Preparation

Select Function Reset Timer to set “Instant”. For more information, see [p.140 “User Tools \(System Settings\)”](#).

1 Press **[Clear/Stop]** key.

The immediate fax transmission is interrupted.

Note

- Previously scanned originals will be delivered.

2 Remove the originals.

3 Place originals to be scanned.

4 Start the scan.

Note

- When the scan is completed, press the **[Facsimile]** key and restart faxing.

Scanning while printing

You can scan without interrupting printing.



Multi-Access

You can carry out another job using a different function while the current job is being performed. This allows you to handle your jobs efficiently regardless of how the machine is being used. For example:

- While making copies, you can scan documents to store in the Document Server.
- While printing documents saved in the Document Server, the machine can receive print data.
- You can make copies while receiving fax data.
- While printing print data, you can make operations for copying.

Performing multiple functions simultaneously like this is called Multi-accessing.

Note

- To specify which function to give priority to, use **[Print Priority]**. The default setting is **[Copy]**. For more information, see [p.140 "User Tools \(System Settings\)"](#).
- If the optional SR770 (2 Tray Finisher) or PT460 (Multi-bin) is installed on the machine, you can specify an output tray to which to deliver documents. For more information, see [p.140 "User Tools \(System Settings\)"](#).



Multi-Access Operation

⊙: If the desired operation is set as "Function Priority", it interrupts the current operation after the current page has been completed. If the current operation is set as "Function Priority", the interrupting operation is carried out automatically after the current operation ends.

○: If the desired operation is set as "Function Priority", it interrupts the current operation after the current job has been completed. If the current operation is set as "Function Priority", the interrupting operation is carried out automatically after the current operation ends.



2. Windows 2000 Print Server Configuration

To use a network printer, click **[SmartNetMonitor]**, **[Standard TCP/IP Port]**, or **[LPR Port]** when installing the printer driver.

- SmartNetMonitor
See p.35 “Configuring Protocols”, p.39 “Installing Software”, p.40 “Installing the PCL 5c or RPCS Printer Driver”, and p.45 “Installing the PostScript Printer Driver”.
- Standard TCP/IP Port, LPR Port
See p.35 “Configuring Protocols”, p.40 “Installing the PCL 5c or RPCS Printer Driver”, and p.45 “Installing the PostScript Printer Driver”.

Note

- If you want to use LPR Port, Print Services for UNIX must be installed. For details, see Windows 2000 Help.

Configuring Protocols

Configuring TCP/IP and IPP for Printing

This describes how to configure the network interface board and Windows 2000 to use TCP/IP and IPP.

Preparation

To use NetBEUI, use the SmartNetMonitor for Client port.



Configuring the printer

Configure the printer to use TCP/IP.

- Check TCP/IP is set to active. (Default is active.)
- Assign an IP address and make other settings required for TCP/IP.



Reference

For more information about how to make the above settings, see “Windows 2000 Configuration”, *Printer Client Reference Copier System Edition*.

If DHCP is used to assign IP addresses, see [p.317 “Using DHCP”](#).



Note

- ❑ After setting the IP address, use the ping command to confirm that it has been set correctly.
 - ① On the **[Start]** menu, point to **[Programs]**, point to **[Accessories]** and then click **[Command Prompt]**.
 - ② Enter the following: (Example: IP address is 192.168.15.16)
C:> ping 192.168.15.16
If the address is configured correctly, the following message appears:
Reply from 192.168.15.16 : bytes=32 time<10ms TTL=32
If the address is configured incorrectly, the following message appears:
Request timed out.

Configuring a Windows 2000 computer

Follow the procedure below to configure a Windows 2000 computer to use TCP/IP.

- 1** On the **[Start]** menu, point to **[Settings]**, and then click **[Network and Dial-up Connections]**.
- 2** Click **[Local Area Connection]**. On the **[File]** menu, click **[Properties]**.



3 Check **[Internet Protocol (TCP/IP)]** is selected in the **[Components checked are used by this connection:]** box on the **[General]** tab.

 **Note**

- If the check box for TCP/IP is not selected, select it.
- If TCP/IP is not installed, click **[Install]** on the **[General]** tab and install it. For more information about installing TCP/IP, see Windows 2000 Help.

4 **Configure TCP/IP with an appropriate IP address, subnet mask, and other settings.**

Check with the network administrator that the settings are correct.

Configuring NetBEUI for Printing

This describes how to configure the network interface board and Windows 2000 to use NetBEUI.

Configuring the printer

Configure the printer to use NetBEUI.

- Check NetBEUI is set to active. (Default is active.)

 **Reference**

For more information about how to make the above settings, see “Windows 2000 Configuration”, *Printer Client Reference Copier System Edition*.



Configuring a Windows 2000 computer

Follow the procedure below to configure a Windows 2000 computer to use NetBEUI.

- 1** On the **[Start]** menu, point to **[Settings]**, and then click **[Network and Dial-up Connections]**.
- 2** Click **[Local Area Connection]**. On the **[File]** menu, click **[Properties]**.
- 3** Check **[NetBEUI Protocol]** is selected in the **[Components checked are used by this connection:]** box on the **[General]** tab.

 **Note**

- If the check box for NetBEUI is not selected, select it.
- If NetBEUI is not installed, click **[Install]** on the **[General]** tab and install it. For more information about installing NetBEUI, see Windows 2000 Help.



Installing Software

Installing SmartNetMonitor for Client

1 Quit all applications that are running.

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

Auto Run will start the installer.

 **Note**

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

3 Select a language for the interface, and then click **[OK]**.

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

4 Click **[SmartNetMonitor for Client/Admin]**.

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

After reading through the content, click **[I accept the agreement.]** to agree with the license agreement, and then click **[Next>]**.

6 Follow the instructions on the screen.

 **Note**

- If you are required to restart the computer after the installation of SmartNetMonitor for Client, restart and continue configuration.



Installing the PCL 5c or RPCS Printer Driver

1 Quit all applications that are running.

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

Auto Run will start the installer.

 **Important**

- Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

 **Note**

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

3 Select a language for the interface, and then click **[OK]**.

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

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

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

After reading through the content, click **[I accept the agreement.]** to agree with the license agreement, and then click **[Next>]**.



- 6** Select the printer drivers you want to use when the [Select Program] dialog box appears, and then click [Next>].

You can select more than one printer driver.

- 7** Select the [Printer Name] check box to select the printer model(s) you want to use.

To change the printer name, use the [Change settings for 'Printer Name'] box.

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

 **Note**

- The details shown for [Comment:], [Driver:], and [Port:] vary depending on the operating system being used, model of printer selected, and port being used.

- 9** Click [Port:], and then click [Add] in the [Change settings for 'Port'] box.

The [Add Port] dialog box appears.

- 10** The next part of the procedure depends on the port in use. Follow the section that corresponds to the port you want to use.

SmartNetMonitor

- 1** Click [SmartNetMonitor], and then click [OK].

- 2** Select the printer you want to use.

❖ **TCP/IP**

- 1** Click [TCP/IP], and then click [Search].
Available printers will be listed.

- ② Click the printer you want to use, and then click **[OK]**.

 **Note**

- Printers that respond to an IP broadcast from the computer will be displayed. To print to a printer not listed here, click **[Specify Address]**, and then enter the printer's IP address or host name.

❖ **NetBEUI**

- ① Click **[NetBEUI]**, and then click **[Search]**.
A list of printers that can be used with NetBEUI appears.
- ② Click the printer you want to use, and then click **[OK]**.

 **Note**

- Printers that respond to a broadcast from the computer will be displayed. To print to a printer not listed here, click **[Specify Address]**, and then enter the NetBEUI address. Check the NetBEUI network address is on the configuration page. For more information about printing the configuration page, see [p.236 “Printing a Configuration Page”](#). NetBEUI address appears as “\\RNPxxx\xxx” on the configuration page. Enter the printer's network path name in the form of “%%Computer name\Share name”. Do not enter “\” as head characters but “%%”.
- You cannot print to printers beyond routers.

❖ **IPP**

- ① Click **[IPP]**.
The IPP setting dialog box appears.
- ② To specify the printer's IP address, enter “http://printer's-ip-address/printer” or “ipp://printer's-ip-address/printer” in the **[Printer URL]** field.
(Example: IP address is 192.168.15.16)

http://192.168.15.16/printer

ipp://192.168.15.16/printer

- ③ If necessary, enter the names to distinguish the printer in **[IPP Port Name]**. Enter a different name from those of existing port names.
If you do not do this, the address entered in **[Printer URL]** will be set as the IPP port name.
- ④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

 **Note**

- For more information about these settings, see SmartNetMonitor for Client Help.
- ⑤ Click **[OK]**.

Standard TCP/IP Port

- ① Click **[Standard TCP/IP Port]**, and then click **[OK]**.
- ② In the **[Add Standard TCP/IP Printer Port Wizard]** window, click **[Next>]**.
- ③ In the **[Printer Name or IP Address]** box, enter the printer name or IP address, and then click **[Next>]**.
- ④ In the **[Add Standard TCP/IP Printer Port Wizard]** window, click **[Finish]**.

LPR Port

- ① Click **[LPR Port]**, and then click **[OK]**.
 - ② In the **[Name or address of server providing lpd]** box, enter the printer's IP address.
 - ③ In the **[Name of printer or print queue on that server]** box, enter “lp”, and then click **[OK]**.
- 11** Make sure the location for the selected printer is displayed after **[Port:]**.
 - 12** Double-click **[Shared]** to display share settings.

13 To share the printer, select the **[Shared]** check box.

14 Check the boxes under **[Share name]** to install the alternative driver for the necessary system.

 **Note**

- Select the **[Shared]** check box to start installation of an alternative driver (**[Windows NT 4.0/2000]** and **[Windows 95/98/Me]** are already selected).
- You can add an alternative driver after installation. See [p.54 “Settings for Printer Share”](#).

15 Configure the default printer as necessary.

❖ **Default Printer**

Select the **[Default Printer]** check box to set the printer as the default printer.

16 Click **[Continue]** to start printer driver installation.

17 When the **[Select Program]** dialog box appears, click **[Finish]**.

18 When the **[Installation completion]** dialog box appears, click **[Finish]**.

19 Set up the options.

 **Note**

- You must set up the options when bidirectional transmission is disabled. For more information about bidirectional transmission status, see [p.52 “Bidirectional transmission”](#).

 **Reference**

For more information about option settings, see [p.51 “Setting Up Options”](#).



Installing the PostScript Printer Driver

1 Quit all applications that are running.

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

Auto Run will start the installer.

 **Important**

- Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

 **Note**

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

3 Select a language for the interface, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

 **Note**

- The printer driver with the selected language will be installed. The printer driver will be installed in English if you select the following languages: Cestina, Magyar, Polski, Portugues, Suomi

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** The next part of the procedure depends on the port in use. Follow the section that corresponds to the port you want to use.
 - SmartNetMonitor
 - Standard TCP/IP Port
 - LPR Port

SmartNetMonitor

- 1** Click **[SmartNetMonitor]**, and then click **[Next>]**.
- 2** Select the printer you want to use.

❖ TCP/IP

- ① Click **[TCP/IP]**, and then click **[Search]**.
Available printers will be listed.
- ② Click the printer you want to use, and then click **[OK]**.

Note

- Printers that respond to an IP broadcast from the computer will be displayed. To print to a printer not listed here, click **[Specify Address]**, and then enter the printer's IP address or host name.

❖ NetBEUI

- ① Click **[NetBEUI]**, and then click **[Search]**.
A list of printers that can be used with NetBEUI appears.
- ② Click the printer you want to use, and then click **[OK]**.

Note

- Printers that respond to a broadcast from the computer will be displayed. To print to a printer not listed here, click **[Specify Address]**, and then enter the NetBEUI address. Check the NetBEUI network address is on the configuration page. For more information about printing the configuration page, see [p.236 “Printing a Configuration Page”](#). NetBEUI address appears as “\\RNPxxxx\xxx” on the configuration page. Enter the printer’s network path name in the form of “%%Computer name\Share name”. Do not enter “\\” as head characters but “%%”.
- You cannot print to printers beyond routers.

❖ IPP

- ① Click **[IPP]**.
The IPP setting dialog box appears.
- ② To specify the printer's IP address, enter “http://printer's-ip-address/printer” or “ipp://printer's-ip-address/printer” in the **[Printer URL]** field.
(Example: IP address is 192.168.15.16)
http://192.168.15.16/printer
ipp://192.168.15.16/printer
- ③ If necessary, enter the names to distinguish the printer in **[IPP Port Name]**. Enter a different name from those of existing port names.
If you do not do this, the address entered in **[Printer URL]** will be set as the IPP port name.



- ④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

 **Note**

- For more information about these settings, see SmartNetMonitor for Client Help.
- ⑤ Click **[OK]**.

Standard TCP/IP Port

- ① Click **[Standard TCP/IP]**, and then click **[OK]**.
- ② In the **[Add Standard TCP/IP Printer Port Wizard]** window, click **[Next>]**.
- ③ In the **[Printer Name or IP Address]** box, enter the printer name or IP address, and then click **[Next>]**.
- ④ In the **[Add Standard TCP/IP Printer Port Wizard]** window, click **[Finish]**.

LPR Port

- ① Click **[LPR Port]**, and then click **[OK]**.
- ② In the **[Name or address of server providing lpd]** box, enter the printer's IP address.
- ③ In the **[Name of printer or print queue on that server]** box, enter “lp”, and then click **[OK]**.
- ⑨ Confirm to select the name of the printer whose driver you want to install, and then click **[Next>]**.
- ⑩ Change the name of the printer if you want, and then click **[Next>]**.

Configure the default printer as necessary. Select the **[Yes]** check box to set the printer as the default printer.



11 select the **[Share as:]** check box, and then click **[Next>]**.

To change the printer name, use the **[Share as:]** box.

12 In the **[Location and Comment]** dialog box, enter the location and comment about the printer, and then click **[Next>]**.

13 Select whether or not you want to print a test page, and then click **[Next>]**.

14 Click **[Finish]**.

Printer driver installation starts.

15 Set up the options.



Reference

For more information about option settings, see [p.51 “Setting Up Options”](#).

Changing Port Settings

This describes how to change SmartNetMonitor for Client settings, such as proxy server settings or IPP URL.

Note

There are no settings for NetBEUI.

1 In the **[Printers]** window, click the icon of the printer you want to use. On the **[File]** menu, click **[Properties]**.

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

The [Port Configuration:] dialog box appears.

Note

- If you cannot set items on the [Recovery/Parallel Printing] tab, follow the procedure below.
 - ① Click [Cancel] to close the [Port Configuration:] dialog box.
 - ② Start SmartNetMonitor for Client, and then right-click the SmartNetMonitor for Client icon on the taskbar.
 - ③ Click [Extended Features Settings], and then select the [Set Recovery/Parallel Printing for each port] check box.
 - ④ Click [OK] to close the [Extended Features Settings] dialog box.
- For IPP, you can configure User Settings, Proxy Settings, and Timeout Settings.

Note

- For more information about these settings, see SmartNetMonitor for Client Help.



Setting Up Options

You must set up installed options, paper size, and feed direction with the printer driver when bidirectional transmission is disabled.

Limitation

- Changing the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

Note

- The description uses the PCL 5c printer driver.

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

Note

- When you open the printer properties dialog box for the first time after installing the RPCS printer driver, the confirmation window appears. After that, the initial display of the printer properties dialog box appears.

3 Click the [Accessories] tab.

Note

- If you are using the RPCS printer driver, click the [Change Accessories] tab.
- If you are using the PostScript 3 printer driver, click the [Device Settings] tab.



4 Select options you have installed from the **[Options]** group, and then make any necessary settings.

 **Note**

- If you are using the RPCS printer driver, select the options from **[Select printer options:]**.
- If you are using the PostScript 3 printer driver, select the options from **[Installable Options]**.

5 Click **[OK]**.

 **Bidirectional transmission**

When bidirectional transmission is enabled, information about paper size and feed direction settings is automatically sent to the printer by a computer. You can also check the printer status from your computer.

- Bidirectional transmission is supported by Windows 95/98/Me, Windows 2000, Windows XP, and Windows NT 4.0.
- If you use the RPCS printer driver and bidirectional transmission is enabled, the **[Change Accessories]** tab is shaded, and cannot be modified

 **Note**

- The RPCS printer driver supports bidirectional transmission and updates the printer status automatically.
- The PCL 5c printer driver supports bidirectional transmission; you can update the printer status manually. However, it does not support bidirectional transmission over a parallel connection.
- The PostScript 3 printer driver does not support bidirectional transmission.



Bidirectional transmission requires the following conditions:

❖ **When connecting via parallel cable**

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

❖ **When connecting with the network**

- The printer must be set to bidirectional transmission.
 - SmartNetMonitor 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 RPCS printer driver.
-





Settings for Printer Share

Limitation

- Changing the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

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

3 Select the [Shared as:] check box on the [Sharing] tab.

4 To share a printer with users running different versions of Windows, click [Additional Drivers...], and then follow the instruction on the screen.

Note

- If you have installed an alternative driver by selecting the [Shared] check box, you do not have to follow this step.

5 Click [OK].



3. Windows XP Print Server Configuration

To use a printer connected to the Ethernet interface, click **[SmartNetMonitor]**, **[Standard TCP/IP Port]**, or **[LPR Port]** when installing the printer driver.

- SmartNetMonitor
See p.55 “Configuring Protocols”, p.58 “Installing Software”, p.59 “Installing the PCL 5c or RPCS Printer Driver”, and p.64 “Installing the PostScript Printer Driver”.
- Standard TCP/IP Port, LPR Port
See p.55 “Configuring Protocols”, p.59 “Installing the PCL 5c or RPCS Printer Driver”, and p.64 “Installing the PostScript Printer Driver”.

Note

- If you want to use “LPR Port”, “Print Services for UNIX” must be installed. For details, see Windows XP Help.

Configuring Protocols

Configuring TCP/IP and IPP for Printing

This describes how to configure the network interface board and Windows XP to use TCP/IP and IPP.



Configuring the printer

Configure the printer to use TCP/IP.

- Check TCP/IP is set to active. (Default is active.)
- Assign an IP address and make other settings required for TCP/IP.



Reference

For more information about how to make the above settings, see “Windows XP Configuration”, *Printer Client Reference Copier System Edition*.

If DHCP is used to assign IP addresses, see [p.317 “Using DHCP”](#).



Note

- ❑ After setting the IP address, use the ping command to confirm that it has been set correctly.
 - ① On the **[Start]** menu, point to **[All Programs]**, point to **[Accessories]**, and then click **[Command Prompt]**.
 - ② Enter the following: (Example: IP address is 192.168.15.16)
C:> ping 192.168.15.16
If the address is configured correctly, the following message appears:
Reply from 192.168.15.16 : bytes=32 time<10ms TTL=32
If the address is configured incorrectly, the following message appears:
Request timed out.

Configuring a Windows XP computer

Follow the procedure below to configure a Windows XP computer to use TCP/IP.

- 1** On the [Start] menu, point to [Control Panel], and then click [Network Connections].
- 2** Click [Local Area Connection]. On the [File] menu, click [Properties].
- 3** Check [Internet Protocol (TCP/IP)] is selected in the [This connection uses the following items:] box on the [General] tab.

 **Note**

- If the check box for TCP/IP is not selected, select it.
 - If TCP/IP is not installed, click [Install] on the [General] tab and install it. For more information about installing TCP/IP, see Windows XP Help.
- 4** **Configure TCP/IP with an appropriate IP address, subnet mask, and other settings.**
Check with the network administrator that the settings are correct.



Installing Software

Installing SmartNetMonitor for Client

1 Quit all applications that are running.

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

Auto Run will start the installer.

 **Note**

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

3 Select a language for the interface, and then click **[OK]**.

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

4 Click **[SmartNetMonitor for Client/Admin]**.

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

After reading through the content, click **[I accept the agreement.]** to agree with the license agreement, and then click **[Next>]**.

6 Follow the instructions on the screen.

 **Note**

- If you are required to restart the computer after the installation of SmartNetMonitor for Client, restart and continue configuration.



Installing the PCL 5c or RPCS Printer Driver

1 Quit all applications that are running.

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

Auto Run will start the installer.

 **Important**

- Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

 **Note**

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

3 Select a language for the interface, and then click **[OK]**.

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

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

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

After reading through the content, click **[I accept the agreement.]** to agree with the license agreement, and then click **[Next>]**.



- 6** Select the printer drivers you want to use when the [Select Program] dialog appears, and then click [Next>].

You can select more than one printer driver.

- 7** Select the [Printer Name] check box to select the printer model(s) you want to use.

To change the printer name, use the [Change settings for 'Printer Name'] box.

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

 **Note**

- The details shown for [Comment:], [Driver:], and [Port:] vary depending on the operating system being used, model of printer selected, and port being used.

- 9** Click [Port:], and then click [Add] in the [Change settings for 'Port'] box.

- 10** The next part of the procedure depends on the port in use. Follow the section that corresponds to the port you want to use.

- SmartNetMonitor
- Standard TCP/IP Port
- LPR Port

SmartNetMonitor

- 1** Click [SmartNetMonitor], and then click [OK].

2 Select the printer you want to use.

❖ TCP/IP

- ① Click **[TCP/IP]**, and then click **[Search]**.
Available printers will be listed.
- ② Click the printer you want to use, and then click **[OK]**.

Note

- Printers that respond to an IP broadcast from the computer will be displayed. To print to a printer not listed here, click **[Specify Address]**, and then enter the printer's IP address or host name.

❖ IPP

- ① Click **[IPP]**.
The IPP setting dialog box appears.
- ② To specify the printer's IP address, enter “http://printer's-ip-address/printer” or “ipp://printer's-ip-address/printer” in the **[Printer URL]** field.
(Example: IP address is 192.168.15.16)

http://192.168.15.16/printer

ipp://192.168.15.16/printer

- ③ If necessary, enter the names to distinguish the printer in **[IPP Port Name]**. Enter a different name from those of existing port names.
If you do not do this, the address entered in **[Printer URL]** will be set as the IPP port name.
- ④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

Note

- For more information about these settings, see SmartNetMonitor for Client Help.
- ⑤ Click **[OK]**.

Standard TCP/IP Port

- 1 Click **[Standard TCP/IP]**, and then click **[OK]**.
- 2 In the **[Add Standard TCP/IP Printer Port Wizard]** window, click **[Next>]**.
- 3 In the **[Printer Name or IP Address]** box, enter the printer name or IP address, and then click **[Next>]**.
- 4 In the **[Add Standard TCP/IP Printer Port Wizard]** window, click **[Finish]**.

LPR Port

- 1 Click **[LPR Port]**, and then click **[OK]**.
 - 2 In the **[Name or address of server providing lpd]** box, enter the printer's IP address.
 - 3 In the **[Name of printer or print queue on that server]** box, enter “lp”, and then click **[OK]**.
- 11 Make sure the location for the selected printer is displayed after **[Port:]**.
 - 12 Double-click **[Shared]** to display share settings.
 - 13 To share the printer, select the **[Shared]** check box.
 - 14 Check the boxes under **[Share name]** to install the alternative driver for the necessary system.

Note

- Select the **[Shared]** check box to start installation of an alternative driver (**[Windows NT 4.0/2000]** and **[Windows 95/98/Me]** are already selected).
- You can add an alternative driver after installation. See [p.72 “Settings for Printer Share”](#).

15 Configure the default printer as necessary.

❖ **Default Printer**

Select the **[Default Printer]** check box to set the printer as the default printer.

16 Click **[Continue]** to start printer driver installation.

 **Note**

- During installation, the **[Software Installation]** dialog box may appear. In this case, click **[Continue Anyway]** to continue the installation.

17 When the **[Select Program]** dialog box appears, click **[Finish]**.

18 When the **[Installation completion]** dialog box appears, click **[Finish]**.

19 Set up the options.

 **Note**

- You must set up the options when bidirectional transmission is disabled. For more information about bidirectional transmission status, see [p.70 “Bidirectional transmission”](#).

 **Reference**

For more information about option settings, see [p.69 “Setting Up Options”](#).



Installing the PostScript Printer Driver

1 Quit all applications that are running.

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

Auto Run will start the installer.

 **Important**

- Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

 **Note**

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

3 Select a language for the interface, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

 **Note**

- The printer driver with the selected language will be installed. The printer driver will be installed in English if you select the following languages: Cestina, Magyar, Polski, Portugues, Suomi

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** The next part of the procedure depends on the port in use. Follow the section that corresponds to the port you want to use.
 - SmartNetMonitor
 - Standard TCP/IP Port
 - LPR Port

SmartNetMonitor

- 1** Click **[SmartNetMonitor]**, and then click **[Next>]**.
- 2** Select the printer you want to use.

❖ TCP/IP

- ① Click **[TCP/IP]**, and then click **[Search]**.
Available printers will be listed.
- ② Click the printer you want to use, and then click **[OK]**.

Note

- Printers that respond to an IP broadcast from the computer will be displayed. To print to a printer not listed here, click **[Specify Address]**, and then enter the printer's IP address or host name.

❖ IPP

- ① Click **[IPP]**.
The IPP setting dialog box appears.
- ② To specify the printer's IP address, enter “http://printer's-ip-address/printer” or “ipp://printer's-ip-address/printer” in the **[Printer URL]** field.
(Example: IP address is 192.168.15.16)
http://192.168.15.16/printer
ipp://192.168.15.16/printer
- ③ If necessary, enter the names to distinguish the printer in **[IPP Port Name]**. Enter a different name from those of existing port names.
If you do not do this, the address entered in **[Printer URL]** will be set as the IPP port name.
- ④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

Note

- For more information about these settings, see SmartNetMonitor for Client Help.
- ⑤ Click **[OK]**.

Standard TCP/IP Port

- ① Click **[Standard TCP/IP]**, and then click **[OK]**.
- ② In the **[Add Standard TCP/IP Printer Port Wizard]** window, click **[Next>]**.
- ③ In the **[Printer Name or IP Address]** box, enter the printer name or IP address, and then click **[Next>]**.
- ④ In the **[Add Standard TCP/IP Printer Port Wizard]** window, click **[Finish]**.

LPR Port

- ❶ Click [LPR Port], and then click [OK].
- ❷ In the [Name or address of server providing lpd] box, enter the printer's IP address.
- ❸ In the [Name of printer or print queue on that server] box, enter “lp”, and then click [OK].
- ❹ Confirm to select the name of the printer whose driver you want to install, and then click [Next>].
- ❺ Change the name of the printer if you want, and then click [Next>].
Configure the default printer as necessary. Select the [Yes] check box to set the printer as the default printer.
- ❻ Select the [Share name:] check box, and then click [Next>].
To change the printer name, use the [Share name:] box.
- ❼ In the [Location and Comment] dialog box, enter the location and comment about the printer, and then click [Next>].
- ❽ Select whether or not you want to print a test page, and then click [Next>].
- ❾ Click [Finish].

Printer driver installation starts.

 **Note**

- During installation, the [Hardware Installation] dialog box may appear. In this case, click [Continue Anyway] to continue the installation.



15 Set up the options.

Reference

For more information about option settings, see [p.69 “Setting Up Options”](#).

Changing Port Settings

Follow the procedure below to change SmartNetMonitor for Client settings, such as proxy server settings or IPP URL.

1 In the **[Printers and Faxes]** window, click the icon of the printer you want to use. On the **[File]** menu, click **[Properties]**.

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

The **[Port Configuration:]** dialog box appears.

Note

- If you cannot set items on the **[Recovery/Parallel Printing]** tab, follow the procedure below.
 - ① Click **[Cancel]** to close the **[Port Configuration:]** dialog box.
 - ② Start SmartNetMonitor for Client, and then right-click the SmartNetMonitor for Client icon on the taskbar.
 - ③ Click **[Extended Features Settings]**, and then select the **[Set Recovery/Parallel Printing for each port]** check box.
 - ④ Click **[OK]** to close the **[Extended Features Settings]** dialog box.
- For IPP, you can configure IPP User Settings, Proxy Settings, and Timeout Settings.

Note

- For more information about these settings, see SmartNetMonitor for Client Help.



Setting Up Options

You must set up installed options, paper size and feed direction with the printer driver when bidirectional transmission is disabled.

Limitation

- Changing the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

Note

- The description uses the PCL 5c printer driver.

1 Access the **[Printers and Faxes]** window from **[Start]** on the taskbar.

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

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

Note

- When you open the printer properties dialog box for the first time after installing the RPCS printer driver, the confirmation window appears. After that, the initial display of the printer properties dialog box appears.

3 Click the **[Accessories]** tab.

Note

- If you are using the RPCS printer driver, click the **[Change Accessories]** tab.
- If you are using the PostScript 3 printer driver, click the **[Device Settings]** tab.



4 Select options you have installed from the **[Options]** group, and then make any necessary settings.

 **Note**

- If you are using the RPCS printer driver, select the options from **[Select printer options:]**.
- If you are using the PostScript 3 printer driver, select the options from **[Installable Options]**.

5 Click **[OK]**.

 **Bidirectional transmission**

When bidirectional transmission is enabled, information about paper size and feed direction settings is automatically sent to the printer by a computer. You can also check printer status from your computer.

- Bidirectional transmission is supported by Windows 95/98/Me, Windows 2000, Windows XP, and Windows NT 4.0.
- If you use the RPCS printer driver and bidirectional transmission is enabled, the **[Change Accessories]** tab is shaded, and cannot be used.

 **Note**

- The RPCS printer driver supports bidirectional transmission and updates the printer status automatically.
- The PCL 5c printer driver supports bidirectional transmission; you can update the printer status manually.
- The PostScript 3 printer driver does not support bidirectional transmission.



Bidirectional transmission requires the following conditions:

❖ **When connecting via parallel cable**

- The computer must support bidirectional transmission.
- The printer must be set to bidirectional transmission.
- The interface cable must support bidirectional transmission.
- The machine must be connected to the computer using standard parallel cable and parallel connector.
- Under Windows XP **[Enable bidirectional support]** must be selected and **[Enable printer pooling]** must not be selected on the **[port]** tab with RPCS printer driver.

❖ **When connecting with the network**

- The printer must be set to bidirectional transmission.
- SmartNetMonitor for Client included on the CD-ROM must be installed, and TCP/IP must be used.
- Under Windows XP **[Enable bidirectional support]** must be selected and **[Enable printer pooling]** must not be selected on the **[port]** tab with RPCS printer driver.





Settings for Printer Share

Limitation

- Changing the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

1 Access the **[Printers and Faxes]** window from **[Start]** on the taskbar.

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

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

3 Select the **[Share this printer:]** check box on the **[Sharing]** tab.

4 To share a printer with users running different versions of Windows, click **[Additional Drivers...]**, and then follow the instruction on the screen.

Note

- If you have installed an alternative driver by selecting the **[Shared]** check box, you do not have to follow this step.

5 Click **[OK]**.



4. Windows NT 4.0 Print Server Configuration

To use a printer connected to the Ethernet interface, click **[SmartNetMonitor]** or **[LPR Port]** when installing the printer driver.

- SmartNetMonitor
See p.73 “Configuring Protocols”, p.77 “Installing Software”, p.78 “Installing the PCL 5c or RPCS Printer Driver”, and p.83 “Installing the PostScript Printer Driver”.
- LPR Port
See p.73 “Configuring Protocols”, p.78 “Installing the PCL 5c or RPCS Printer Driver”, and p.83 “Installing the PostScript Printer Driver”.

Note

- If you want to use “LPR Port”, “Microsoft TCP/ IP Printing” must be installed. For details, see Windows NT Help.

Configuring Protocols

Configuring TCP/IP and IPP for Printing

This describes how to configure the network interface board and Windows NT to use TCP/IP and IPP.



Configuring the printer

Configure the printer to use TCP/IP.

- Check TCP/IP is set to active. (Default is active.)
- Assign an IP address and make other settings required for TCP/IP.



Reference

For more information about how to make the above settings, see “Windows NT 4.0 Configuration”, *Printer Client Reference Copier System Edition*.

If DHCP is used to assign IP addresses, see [p.89](#) “Bidirectional transmission”.



Note

- After setting the IP address, use the ping command to confirm that it has been set correctly.

① On the **[Start]** menu, point to **[Programs]**, and then click **[Command Prompt]**.

② Enter the following: (Example: IP address is 192.168.15.16)

```
C:> ping 192.168.15.16
```

If the address is configured correctly, the following message appears:

```
Reply from 192.168.15.16 : bytes=32 time<10ms TTL=32
```

If the address is configured incorrectly, the following message appears:

```
Request timed out.
```

Configuring a Windows NT computer

Follow the procedure below to configure a Windows NT computer to use TCP/IP.



1 Open [Control Panel] and double-click the [Network] icon. Check “TCP/IP Protocol” is listed in the [Network protocols] box on the [Protocols] tab.

 **Note**

- If TCP/IP is not installed, click [Add] on the [Protocols] tab and install it. For more information about installing TCP/IP, see Windows NT Help.

2 Check TCP/IP with an appropriate IP address, subnet mask, and other settings.

Check the settings are correct with the network administrator.

3 Click the [Services] tab, and confirm that “Microsoft TCP/IP Printing” is installed.

If “Microsoft TCP/IP Printing” is not installed, click [Add] on the [Services] tab, and install it. For more information about installing and configuring network services, see Windows NT Help.

Configuring NetBEUI for Printing

This describes how to configure the network interface board and Windows NT to use NetBEUI.

 **Preparation**

To use NetBEUI, use the SmartNetMonitor for Client port.

Configuring the printer

Configure the printer to use NetBEUI.

- Check NetBEUI is set to active. (Default is active.)

 **Reference**

For more information about how to make the above settings, see “Windows NT 4.0 Configuration”, *Printer Client Reference Copier System Edition*.





Configuring a Windows NT computer

Install NetBEUI on the Windows NT computer, and then change the LAN adapter number (Lana Number).

1 Open [Control Panel] and double-click the [Network] icon. Check [NetBEUI Protocol] is listed in the [Network Protocols] box on the [Protocols] tab.

 **Note**

- If NetBEUI is not installed, click [Add...] on the [Protocols] tab, and install it. For more information about installing NetBEUI, see Windows NT Help.

2 Change the Lana Number. Click the [Services] tab, click [NetBEUI Interface] in the [Network Services:] box, and then click [Properties:].

3 Click the Lana Number corresponding to the Nbf protocol of the [Network Route] headline, and then click [Edit].

4 Enter “0” as the Lana Number.

 **Note**

- If another protocol's Lana Number is configured to “0”, change it to another number.

5 Click [OK].

6 Click [Close].

7 After confirming the message to restart, click [Yes].

 **Note**

- After you change the Lana Number, you must restart the computer.



Installing Software

Installing SmartNetMonitor for Client

1 Quit all applications that are running.

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

Auto Run will start the installer.

 **Note**

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

3 Select a language for the interface, and then click **[OK]**.

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

4 Click **[SmartNetMonitor for Client/Admin]**.

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

After reading through the content, click **[I accept the agreement.]** to agree with the license agreement, and then click **[Next>]**.

6 Follow the instructions on the screen.

 **Note**

- If you are required to restart the computer after the installation of SmartNetMonitor for Client, restart and continue configuration.



Installing the PCL 5c or RPCS Printer Driver

1 Quit all applications that are running.

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

Auto Run will start the installer.

 **Important**

- Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

 **Note**

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

3 Select a language for the interface, and then click **[OK]**.

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

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

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

After reading through the content, click **[I accept the agreement.]** to agree with the license agreement, and then click **[Next>]**.



- 6** Select the printer drivers you want to use when the [Select Program] dialog appears, and then click [Next>].

You can select more than one printer driver.

- 7** Select the [Printer Name] check box to select the printer model(s) you want to use.

To change the printer name, use the [Change settings for 'Printer Name'] box.

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

 **Note**

- The details shown for [Comment:], [Driver:], and [Port:] vary depending on the operating system being used, model of printer selected, and port being used.

- 9** Click [Port:], and then click [Add] in the [Change settings for 'Port'] box.

- 10** The next part of the procedure depends on the port in use. Follow the section that corresponds to the port you want to use.

- SmartNetMonitor
- LPR Port

SmartNetMonitor

- 1** Click [SmartNetMonitor], and then click [OK].
- 2** Select the printer you want to use.

❖ **TCP/IP**

- 1** Click [TCP/IP], and then click [Search].
Available printers will be listed.

- ② Click the printer you want to use, and then click **[OK]**.

 **Note**

- Printers that respond to an IP broadcast from the computer will be displayed. To print to a printer not listed here, click **[Specify Address]**, and then enter the printer's IP address or host name.

❖ **NetBEUI**

- ① Click **[NetBEUI]**, and then click **[Search]**.
A list of printers that can be used with NetBEUI appears.
- ② Click the printer you want to use, and then click **[OK]**.

 **Note**

- Printers that respond to an broadcast from the computer will be displayed. To print to a printer not listed here, click **[Specify Address]**, and then enter the NetBEUI address. Check the NetBEUI network address is on the configuration page. For more information about the printing of configuration page, see p.236 “[Printing a Configuration Page](#)”. NetBEUI address appears as “\RNPxxx\xxx” on a configuration page. Enter the printer's network path name in form of “%%Computer name \Share name”. Do not enter “\” as head characters but “%%”.
- You cannot print to printers beyond routers.

❖ **IPP**

- ① Click **[IPP]**.
The IPP settings dialog box appears.
- ② To specify the printer's IP address, enter “http://printer's-ip-address/printer” or “ipp://printer's-ip-address/printer” in the **[Printer URL]** field.
(Example: IP address is 192.168.15.16)

http://192.168.15.16/printer

ipp://192.168.15.16/printer

- ③ If necessary, enter the names to distinguish the printer in **[IPP Port Name]**. Enter a different name from those of existing port names.
If you do not do this, the address entered in **[Printer URL]** will be set as the IPP port name.
- ④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

 **Note**

- For more information about these settings, see SmartNetMonitor for Client Help.
- ⑤ Click **[OK]**.

LPR Port

- ① Click **[LPR Port]**, and then click **[OK]**.
- ② In the **[Name or address of server providing lpd]** box, enter the printer's IP address.
- ③ In the **[Name of printer or print queue on that server]** box, enter “lp”, and then click **[OK]**.
- 11 Make sure the location for the selected printer is displayed after **[Port:]**.
- 12 Double-click **[Shared]** to display share settings.
- 13 To share the printer, select the **[Shared]** check box.
- 14 Check the boxes under **[Share name]** to install the alternative driver for the necessary system.

 **Note**

- Select the **[Shared]** check box to start installation of an alternative driver (**[Windows 95/98/Me]** is already selected).
- You can add an alternative driver after installation. See [p.91 “Settings for Printer Share”](#).

15 Configure the default printer as necessary.

❖ **Default Printer**

Select the **[Default Printer]** check box to set the printer as the default printer.

16 Click **[Continue]** to start printer driver installation.

17 When the **[Select Program]** dialog box appears, click **[Finish]**.

18 When the **[Installation completion]** dialog box appears, click **[Finish]**.

19 Set up the options.

 **Note**

- You must set up the options when bidirectional transmission is disabled. For more information about bidirectional transmission status, see [p.89 “Bidirectional transmission”](#).

 **Reference**

For more information about option settings, see [p.88 “Setting Up Options”](#).



Installing the PostScript Printer Driver

1 Quit all applications that are running.

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

Auto Run will start the installer.

 **Important**

- Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

 **Note**

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

3 Select a language for the interface, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

 **Note**

- The printer driver with the selected language will be installed. The printer driver will be installed in English if you select the following languages: Cestina, Magyar, Polski, Portugues, Suomi

4 Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.



- 5** Click **[Next>]**.
- 6** Click **[Local printer]**, and then click **[Next>]**.
- 7** Click **[Add Port:]**.
- 8** The next part of the procedure depends on the port in use. Follow the section that corresponds to the port you want to use.
 - SmartNetMonitor
 - LPR Port

SmartNetMonitor

- 1** Click **[SmartNetMonitor]**, and then click **[New Port...]**.
- 2** Select the printer you want to use.

❖ TCP/IP

- 1** Click **[TCP/IP]**, and then click **[Search]**.
Available printers will be listed.
- 2** Click the printer you want to use, and then click **[OK]**.

Note

- Printers that respond to an IP broadcast from the computer will be displayed. To print to a printer not listed here, click **[Specify Address]**, and then enter the printer's IP address or host name.

❖ NetBEUI

- 1** Click **[NetBEUI]**, and then click **[Search]**.
A list of printers that can be used with NetBEUI appears.

- ② Click the printer you want to use, and then click **[OK]**.

 **Note**

- Printers that respond to a broadcast from the computer will be displayed. To print to a printer not listed here, click **[Specify Address]**, and then enter the NetBEUI address. Check the NetBEUI network address is on the configuration page. For more information about printing the configuration page, see p.236 “[Printing a Configuration Page](#)”. NetBEUI address appears as “\\RNPxxxx\xxx” on the configuration page. Enter the printer's network path name in the form of “%%Computer name\Share name”. Do not enter “\” as head characters but “%%”.
- You cannot print to printers beyond routers.

❖ **IPP**

- ① Click **[IPP]**.
The IPP setting dialog box appears.
- ② To specify the printer's IP address, enter “http://printer's-ip-address/printer” or “ipp://printer's-ip-address/printer” in the **[Printer URL]** field.
(Example: IP address is 192.168.15.16)

http://192.168.15.16/printer

ipp://192.168.15.16/printer

- ③ If necessary, enter the names to distinguish the printer in **[IPP Port Name]**. Enter a different name from those of existing port names.
If you do not do this, the address entered in **[Printer URL]** will be set as the IPP port name.
- ④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

 **Note**

- For more information about these settings, see SmartNetMonitor for Client Help.
- ⑤ Click **[OK]**.

LPR Port

- ❶ Click **[LPR Port]**, and then click **[New Port...]**.
- ❷ In the **[Name or address of server providing lpd]** box, enter the printer's IP address.
- ❸ In the **[Name of printer or print queue on that server]** box, enter “lp”, and then click **[OK]**.
- ❹ Click **[Close]** in the **[Printer Ports]** dialog box, and then click **[Next>]**.
- ❺ Confirm to select the name of the printer whose driver you want to install, and then click **[Next>]**.
- ❻ Change the name of the printer if you want, and then click **[Next>]**.
Configure the default printer as necessary. Select the **[Yes]** check box to set the printer as the default printer.
- ❼ Select the **[Shared:]** check box, select the operating system as necessary, and then click **[Next>]**.
To change the printer name, use the **[Share Name:]** box.
- ❽ In the **[Location and Comment]** dialog box, enter the location and comment about the printer, and then click **[Next>]**.
- ❾ Select whether or not you want to print a test page, and then click **[Finish]**.
- ❿ Printer driver installation starts.
- ⓫ Set up the options.



Reference

For more information about option settings, see [p.88 “Setting Up Options”](#).





Changing Port Settings

This describes how to change SmartNetMonitor for Client settings, such as proxy server settings or IPP URL.

Note

- There are no settings for NetBEUI.

1 In the [Printers] window, click the icon of the printer you want to use. On the [File] menu, click [Properties].

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

The [Port Configuration:] dialog box appears.

Note

- If you cannot set items on the [Recovery/Parallel Printing] tab, follow the procedure below.
 - ① Click [Cancel] to close the [Port Configuration:] dialog box.
 - ② Start SmartNetMonitor for Client, and then right-click the SmartNetMonitor for Client icon on the taskbar.
 - ③ Click [Extended Features Settings], and then select the [Set Recovery/Parallel Printing for each port] check box.
 - ④ Click [OK] to close the [Extended Features Settings] dialog box.
- For IPP, you can configure User Settings, Proxy Settings, and Timeout Settings.

Note

- For more information about these settings, see SmartNetMonitor for Client Help.
- 



Setting Up Options

You must set up installed options, paper size, and feed direction with the printer driver when bidirectional transmission is disabled.

Limitation

- Changing the printer settings requires Full Control Access permission. Members of the Administrators and Power Users groups have Full Control Access permission by default. When you set up options, log on using an account that has Full Control Access permission.

Note

- The description uses the PCL 5c printer driver.

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

Note

- When you open the printer properties dialog box for the first time after installing the RPCS printer driver, the confirmation window appears. After that, the initial display of the printer properties dialog box appears.

3 Click the [Accessories] tab.

Note

- If you are using the RPCS printer driver, click the [Change Accessories] tab.
- If you are using the PostScript 3 printer driver, click the [Device Settings] tab.



4 Select options you have installed from the **[Options]** group, and then make any necessary settings.

 **Note**

- If you are using the RPCS printer driver, select the options from **[Select printer options:]**.
- If you are using the PostScript 3 printer driver, select the options from **[Installable Options]**.

5 Click **[OK]**.

 **Bidirectional transmission**

When bidirectional transmission is enabled, information about paper size and feed direction settings is automatically sent to the printer by a computer. You can also check printer status from your computer.

- Bidirectional transmission is supported by Windows 95/98/Me, Windows 2000, Windows XP, and Windows NT 4.0.
- If you use the RPCS printer driver and bidirectional transmission is enabled, on Windows 95/98/Me, the unavailable functions are shaded, and cannot be used.

 **Note**

- The RPCS printer driver supports bidirectional transmission and updates the printer status automatically.
- The PCL 5c printer driver supports bidirectional transmission; you can update the printer status manually.
- The PostScript 3 printer driver does not support bidirectional transmission.



Bidirectional transmission requires the following conditions:

❖ **When connecting via parallel cable**

- The computer must support bidirectional transmission.
- The printer must be set to bidirectional transmission.
- The interface cable must support bidirectional transmission.
- The machine must be connected to the computer using standard parallel cable and parallel connector.
- Under Windows NT 4.0 **[Enable bidirectional support]** must be selected and **[Enable printer pooling]** must not be selected on the **[port]** tab with RPCS printer driver.

❖ **When connecting with the network**

- The printer must be set to bidirectional transmission.
- SmartNetMonitor for Client included on the CD-ROM must be installed, and TCP/IP must be used.
- Under Windows NT 4.0 **[Enable bidirectional support]** must be selected and **[Enable printer pooling]** must not be selected on the **[port]** tab with RPCS printer driver.





Settings for Printer Share

Limitation

- Changing the printer settings requires Full Control Access permission. Members of the Administrators and Power Users groups have Full Control Access permission by default. When you set up options, log on using an account that has Full Control Access permission.

Use the **[Printers]** window to set up the printer.

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

3 Select the **[Shared]** check box on the **[Sharing]** tab.

Note

- If you use alternate drivers for Windows 95/98/Me client, Service Pack 4 or later is required. Install the appropriate printer driver for each client.

4 To share a printer with users running different versions of Windows, select the operating system in the **[Alternate Drivers:]** box, and then follow the instruction on the screen.

Note

- If you have installed an alternate driver by selecting the **[Shared]** check box, you do not have to follow this step.

5 Click **[OK]**.

The printers attached to the network are displayed.



5. NetWare Configuration

This describes how to configure the printer for use as a print server or remote printer in a NetWare environment.

❖ **SmartNetMonitor for Admin**

To use a printer in a NetWare environment, configure the NetWare printing environment using SmartNetMonitor for Admin.

Note

- If you configure the NetWare printing using SmartNetMonitor for Admin under the following environments, Novell NetWare Client is required:
 - NDS mode in Windows 95/98/Me
 - NDS or Bindary mode in Windows 2000/Windows NT 4.0
- Use the version of Novell Client provided with your operating system, or the latest version.

❖ **Printers listed by SmartNetMonitor for Admin**

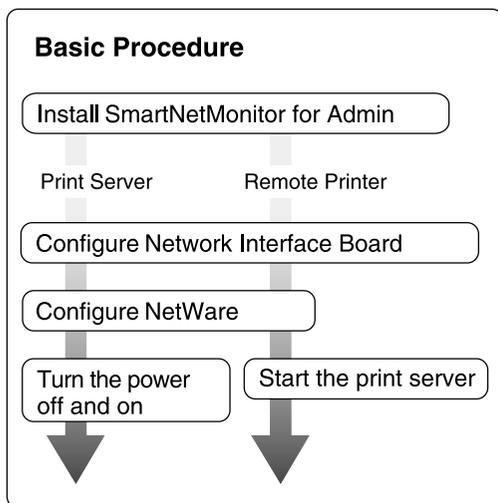
SmartNetMonitor for Admin displays a list of printers connected to the network.

If you cannot find the printer on the displayed list, refer to the configuration page printed on the printer. For more information about printing a configuration page, see [p.236 “Printing a Configuration Page”](#).



NetWare 3.x - Advanced Settings

The procedure for configuring the printer differs depending on whether the network interface board is configured as a print server or remote printer. This section describes how to configure it in a NetWare 3.x environment.



Note

- This section assumes NetWare is functional and the necessary environment for NetWare Print Service is available.



Installing SmartNetMonitor for Admin

Install SmartNetMonitor for Admin on your computer. For the installation procedure, see [p.203 “Installing SmartNetMonitor for Admin”](#).

After installing SmartNetMonitor for Admin, go to [p.94 “Setting Up as a Print Server”](#) to use this computer as a print server, or to [p.96 “Setting Up as a Remote Printer”](#) to use it as a remote printer.

Setting Up as a Print Server

1 Log on to the file server as a Supervisor or the equivalent of a Supervisor.

2 Run SmartNetMonitor for Admin.

3 On the [Group] menu, point to [Search Device], and then click [IPX/SPX].

A list of printers appears.

 **Note**

- If you cannot identify which printer to configure from the list of printers, print the configuration page and find it. For more information about printing the configuration page, see [p.236 “Printing a Configuration Page”](#).
- If no printer name appears on the list, match the IPX/SPX frame types between the computer and printer. Use the [Network] dialog box of Windows to change the computer frame type. For more information about changing equipment frame types, see [p.92 “NetWare Configuration”](#).

4 Select the printer you want to configure, and then click [NIB setup Tool] on the [Tools] menu.

5 Click [Wizard], and then click [OK].



6 Enter the device name in the **[Device Name]** box, a comment in the **[Comment]** box if necessary, and then click **[Next>]**.

7 Select the **[NetWare]** check box, and then click **[Next>]**.

8 Click **[Bindery Mode]**, enter the file server name in the **[File Server Name:]** box, and then click **[Next>]**.

In the **[File Server Name:]** box, enter the name of the file server in which the print server is to be created. You can also select a file server from the list that appears by clicking **[Browse]**.

9 Enter the print server name in the **[Print Server Name]** box, the printer name in the **[Printer Name]** box, and the print queue name in the **[Print Queue Name]** box, then click **[Next>]**.

- In the **[Print Server Name]** box, enter the name of the NetWare print server using up to 47 characters.
- In the **[Printer Name]** box, enter the name of the NetWare printer.
- In the **[Print Queue Name]** box, enter the name of the print queue to be added to NetWare.

10 After confirming the settings, click **[Next>]**.

The settings take effect, and NIB Setup Tool closes.

11 Exit SmartNetMonitor for Admin.

12 Turn the printer power off and on.

 **Note**

- To check the printer is configured correctly, enter the following after the command prompt:

```
F :> USERLIST
```

- If the printer works as configured, the name of the print server appears as an attached user.



Setting Up as a Remote Printer

1 Log on to the file server as a Supervisor or the equivalent of a Supervisor.

2 Run the SmartNetMonitor for Admin.

3 On the [Group] menu, point to [Search Device], and then click [IPX/SPX].

A list of printers appears.

 **Note**

- If you cannot identify which printer to configure from the list of printers, print the configuration page and find it. For more information about printing the configuration page, see [p.236 “Printing a Configuration Page”](#).
- If no printer name appears on the list, match the IPX/SPX frame types between the computer and printer. Use the [Network] dialog box of Windows to change the computer frame type. For more information about changing equipment frame types, see [p.92 “NetWare Configuration”](#).

4 Select the printer you want to configure, and then click [NIB setup Tool] on the [Tools] menu.

5 Click [Property Sheet], and then click [OK].

6 Click the [NetWare] tab, and then make the following settings:

- 1** In the [Print Server Name] box, enter the name of the print server.
- 2** In the [File Server Name] box, enter the name of the file server in which a print server is to be created.

By clicking [Browse], you can select a file server among those listed in the [Browse] dialog box.

- 3** In the [Print Server Operation Mode] group, click [As Remote Printer].

- 4 In the [Remote Printer No.] box, enter the printer number.

Important

- Use the same printer number as that to be created in the printer server.

- 5 Click [OK] to close the property sheet.

- 6 After a confirmation dialog box appears, click [OK].

- 7 On the [NIB] menu, click [Exit] to exit NIB Setup Tool.

- 8 Enter “PCONSOLE” after the command prompt.

```
F : > PCONSOLE
```

- 9 Create a print queue as follows:

Note

- If you use a currently defined print queue, proceed to step 10.

- 1 On the [Available Options] menu, click [Print Queue Information], and then press [Enter].

- 2 Press [INSERT], and then enter a print queue name.

- 3 Press [ESC] to return to the [Available Options] menu.

- 10 Create a printer as follows:

- 1 On the [Available Options] menu, click [Print Server Information], and then press [Enter].

- 2 To create a new print server, press [INSERT], and then enter a print server name.

If you are using a currently defined print server, select one of the print servers shown in the [Print Server] list.

Important

- Use the same name as that specified in NIB Setup Tool. (Step 6 - 1).

- 3 On the [Print Server Information] menu, click [Print Server Configuration].
- 4 On the [Print Server Configuration] menu, click [Printer Configuration].
- 5 Select the printer which is indicated as “Not Installed”.

Important

- Use the same number as that specified as the Remote Printer No. using NIB Setup Tool. (Step 6 - 4).

- 6 If you want to change the name of the printer, enter a new name.

The name “Printer x” is assigned to the printer. The “x” stands for the number of the selected printer.

- 7 For type, click [Remote Parallel, LPT1].

IRQ, Buffer size, Starting form, and Queue service mode are automatically configured.

- 8 Press the [ESC] key, and then click [Yes] in the confirmation dialog box.
- 9 Press the [ESC] key to return to [Print Server Configuration Menu].

- 11 Assign print queues to the created printer as follows:

- 1 From [Print Server Configuration Menu], click [Queues Serviced By Printer].
- 2 Select the printer created in step 10.
- 3 Press the [INSERT] key to select a queue serviced by the printer.



Note

- You can select more than one queue at a time.

- 4 Follow the instructions on the screen to make other necessary settings.

When you have finished the above steps, check the queues are assigned.

- 12 Press the [ESC] key until “Exit?” appears, and then click [Yes] to close PCONSOLE.

**13** Start the print server by entering the following from the console of the NetWare Server:

If it is running, restart it after exiting it.

❖ To exit

```
CAREE: unload pserver
```

❖ To start

```
CAREE: load pserver print_server_name
```

 Note

- If the printer works as configured, “Waiting for job” appears.

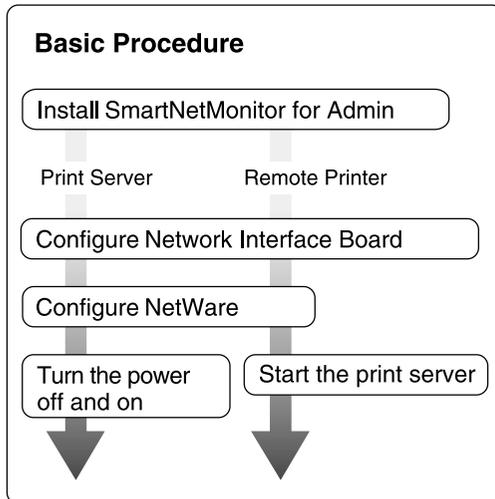


NetWare 4.x, 5/5.1, 6 - Advanced Settings

The procedure for configuring the printer differ depending on whether the network interface board is configured as a print server or remote printer. This section describes how to configure it in a NetWare 4.x, 5/5.1, 6 environment.

❖ To use NetWare 5/5.1, 6

- Use the printer as a print server.
Do not use as a remote printer.
- If you use Pure IP, configure the printer to use TCP/IP. For more information about how to make the settings, see [p.92 “NetWare Configuration”](#).





Installing SmartNetMonitor for Admin

Install SmartNetMonitor for Admin on your computer. For the installation procedure, see [p.203 “Installing SmartNetMonitor for Admin”](#).

After installing SmartNetMonitor for Admin, go to [p.101 “Setting Up as a Print Server”](#) to use this computer as a print server, or to [p.105 “Setting Up as a Remote Printer”](#) to use it as a remote printer.

Setting Up as a Print Server

Important

- You must set up the print server using NDS mode in NetWare 4.x, 5/5.1, 6.

1 Log on to the file server as a Supervisor or the equivalent of a Supervisor.

2 Run SmartNetMonitor for Admin.

3 On the [Group] menu, point to [Search Device], and then click [IPX/SPX] or [TCP/IP].

A list of printers appears.

Note

- If you use Pure IP, click [TCP/IP].
- If you cannot identify which printer to configure from the list of printers, print the configuration page and find it. For more information about printing the configuration page, see [p.236 “Printing a Configuration Page”](#).
- If no printer name appears in the list, match the IPX/SPX frame types between the computer and printer. Use the [Network] dialog box of Windows to change the computer frame type. For more information about changing equipment frame types, see [p.92 “NetWare Configuration”](#).



4 Select the printer you want to configure, and then click **[NIB setup Tool]** on the **[Tools]** menu.

 **Note**

- If you use Pure IP, see [p.103 “Using Pure IP in the NetWare 5/5.1, 6 Environment”](#).

5 Click **[Wizard]**, and then click **[OK]**.

6 Enter the device name in the **[Device Name]** box, a comment in the **[Comment]** box if necessary, and then click **[Next>]**.

7 Select the **[NetWare]** check box, and then click **[Next>]**.

8 Click **[NDS Mode]**, enter the file server name in the **[File Server Name:]** box, the NDS tree name in the **[NDS Tree:]** box and the context in the **[NDS Context:]** box, and then click **[Next>]**.

In the **[File Server Name:]** box, enter the name of the file server in which the print server is to be created. You can also select a file server from the list that appears by clicking **[Browse]**.

By clicking **[Browse]**, you can select a NDS context from those listed in the **[Browse]** dialog box.

For context, object names are entered from a lower object and divided by a period. For example, if you want to create a print server into NET under DS, enter “NET.DS”.

9 Enter the print server name in the **[Print Server Name]** box, the printer name in the **[Printer Name]** box, the print queue name in the **[Print Queue Name]** box, and the print queue volume in the **[Print Queue Volume]**, and then click **[Next>]**.

- In the **[Print Server Name]** box, enter the name of the NetWare print server using up to 47 characters.
- In the **[Printer Name]** box, enter the name of the NetWare printer.
- In the **[Print Queue Name]** box, enter the name of the print queue to be added to NetWare.
- In **[Print Queue Volume]**, enter the print queue volume. As a volume, object names are entered from a lower object and divided by a period. You can select a volume by clicking **[Browse]**.



10 After confirming the settings, click **[Next>]**.

The settings take effect, and NIB Setup Tool closes.

11 Exit SmartNetMonitor for Admin.

12 Turn the printer power off and on.

 **Note**

To check the printer is configured correctly, enter the following after the command prompt:

```
F :> NLIST USER /A/B
```

If the printer works as configured, the name of the print server appears as an attached user.

Using Pure IP in the NetWare 5/5.1, 6 Environment

 **Note**

When not using IPX, it is recommended that you change the print server protocol in the Web browser from **[TCP/IP+IPX]** to **[TCP/IP]**.

1 Log on to the file server as an Admin or the Equivalent of an Admin.

2 Run SmartNetMonitor for Admin.

3 Click **[Property Sheet]**, and then click **[OK]**.

The **[NIB setup Tool]** dialog box appears.

4 Click the **[NetWare]** tab, and make the following settings:

1 In the **[Print Server Name:]** box, enter the name of the print server.

- 2 In the **[File Server Name:]** box, enter the name of the file server in which a print server is to be created.

By clicking **[Browse]**, you can select a file server among those listed in the **[Browse File Server]** dialog box.

- 3 In the **[NDS Context:]** box, enter the context of the print server.

By clicking **[Browse]**, you can select NDS tree and NDS context from those listed in the **[Browse Context]** dialog box.

For context, object names are entered from a lower object and divided by a period. For example, if you want to create a print server into Net under DS, enter “NET.DS”:



- 4 In the **[Print Server Operation Mode]** group, click **[As Print Server]**.
 - 5 Click **[OK]** to close the property sheet.
 - 6 After the confirmation dialog box appears, click **[OK]**.
- 5 **Exit SmartNetMonitor for Admin.**
After this step, proceed to step **8** on p.105 “Setting Up as a Remote Printer”.



Setting Up as a Remote Printer

- 1** Log on to the file server as an Admin or the equivalent of an Admin.
- 2** Run the SmartNetMonitor for Admin.
- 3** On the [Group] menu, point to [Search Device], and then click [IPX/SPX].

A list of printers appears.

Note

- If you cannot identify which printer to configure from the list of printers, print the configuration page and find it. For more information about printing the configuration page, see [p.236 “Printing a Configuration Page”](#).
- If no printer name appears on the list, match the IPX/SPX frame types between the computer and printer. Use the [Network] dialog box of Windows to change the computer frame type. For more information about changing equipment frame types, see [p.92 “NetWare Configuration”](#).

- 4** Select the printer you want to configure, and then click [NIB setup Tool] on the [Tools] menu.
- 5** Click [Property Sheet], and then click [OK].
- 6** Click the [NetWare] tab, and make the following settings:
 - 1** In the [Print Server Name] box, enter the name of the print server.
 - 2** In the [File Server Name] box, enter the name of the file server in which a print server is to be created.

By clicking [Browse], you can select a file server among those listed in the [Browse] dialog box.

- 3 In the [NDS Context] box, enter the context in which the print server is to be created.**

By clicking **[Browse]**, you can select a context from those listed in the **[Browse]** dialog box.

For context, object names are entered from a lower level object and divided by a period. For example, if you want to create a print server into NET under DS, enter “NET.DS”:



- 4 In the [Print Server Operation Mode] group, click [As Remote Printer].**
- 5 In the [Remote Printer No.] box, enter the number of the printer.**

Important

- Use the same number as that of the printer to be created in the print server.

- 6 Click [OK] to close the property sheet.**

- 7 On the [NIB] menu, click [Exit] to exit NIB Setup Tool.**

- 8 From Windows, run NWadmin.**

Reference

For more information about NWadmin, see the documentation provided with NetWare.

- 9 Create a print queue as follows:**

- 1 Select the container object the print queue is located in among those in the directory tree, and then click [Create] on the [Object] menu.**
- 2 In the [Class of new object] box, click [Print Queue], and then click [OK].**

- ③ In the [Print Queue name] box, enter the name of the print queue.
- ④ In the [Print Queue Volume] box, click [Browse].
- ⑤ In the [Available objects] box, click the volume in which the print queue is created, and then click [OK].
- ⑥ After confirming the settings, click [Create].

10 Create a printer as follows:

- ① Select the container object the printer is located in, and then click [Create] on the [Object] menu.
- ② In the [Class of new object] box, click [Printer], and then click [OK]. When you are using NetWare 5/5.1, 6, click [Printer (Non NPDS)].
- ③ In the [Printer name] box, enter the name of the printer.
- ④ Select the [Define additional properties] check box, and then click [Create].

11 Assign print queues to the created printer as follows:

- ① Click [Assignments], and then click [Add] in the [Assignments] group.
- ② In the [Available objects] box, click the queue created in step 9, and then click [OK].
- ③ Click [Configuration], and in the [Printer type] list, click [Parallel], and then click [Communication].
- ④ Click [Manual load] in the [Communication type] group, and then click [OK].
- ⑤ After confirming the settings, click [OK].

12 Create a print server as follows:

- ① Select the context specified using NIB Setup Tool (Step 9 - ①), and on the [Object] menu, click [Create].

- ❷ In the [Class of new object] box, click [Print Server], and then click [OK]. When you are using NetWare 5/5.1, 6, click [Print Server (Non NPDS)].
- ❸ In the [Print Server name] box, enter the name of the print server.

 **Important**

- Use the same name as that specified using NIB Setup Tool. (Step 6 - 1).

- ❹ Select the [Define additional properties] check box, and then click [Create].

13 Assign the printer to the created print server as follows:

- ❶ Click [Assignments], and then click [Add] in the [Assignments] group.
- ❷ In the [Available objects] box, click the queue created in step 11, and then click [OK].
- ❸ In the [Printers] group, click the printer assigned in step 2, and then click [Printer Number].
- ❹ Enter the printer number, and then click [OK].

 **Important**

- Use the same number as that specified as Remote Printer No. using NIB Setup Tool. (Step 6 - 5).

- ❺ After confirming the settings, click [OK].

14 Start the print server by typing the following from the console of the NetWare Server.

If it is running, restart it after closing.

❖ **To exit**

```
CAREE: unload pserver
```

❖ **To start**

```
CAREE: load pserver print_server_name
```



6. Document Server

Overview

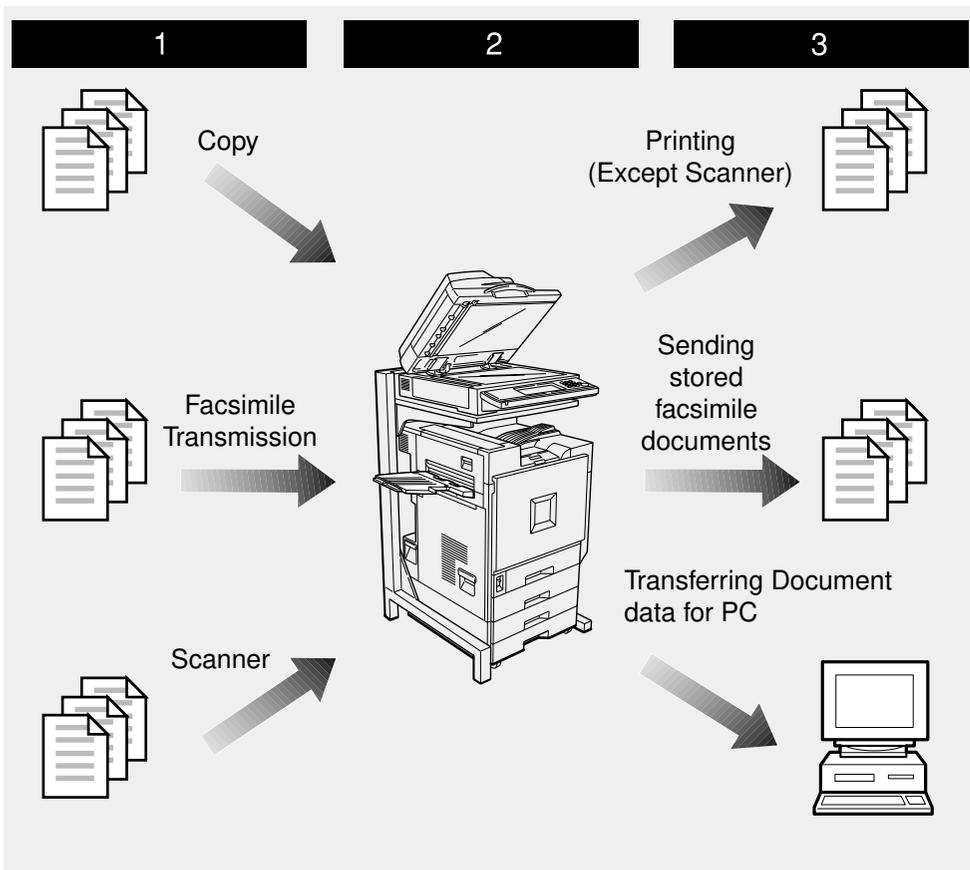
The Document Server enables you to save documents in the optional Hard Disk Drive (40 GB) and then edit and print them as you want.

You can save the following:

- Data from documents scanned using the document feeder
- Data from documents scanned using the exposure glass
- With the Printer Function, storing documents in the Hard Disk Drive using functions of Sample Print or Locked Print is available. For more information, see "Sample Print/Locked Print", *Printer Client Reference Copier System Edition*.



- Data sent from a computer



Process

1 Prepare the documents you want to save.

2 Save the documents.

- The documents are saved in the optional Hard Disk Drive (40 GB) .

3 Print the documents, send faxes, and transfer the documents and the data to a PC.

- You can print saved documents with any settings you desire at any time.
- Scanned document data can be transferred to a PC.
- You can resend saved documents you desire at any time.

Important

- Do not turn off the main power switch when the Operation Switch is on or the On indicator is lit. If you turn it off during an operation, the memory or hard disk might be damaged.
- Avoid any strong shocks to the machine. This could damage the hard disk drive or delete stored files. For precautionary reasons, files should be copied to another local computer.

Limitation

- The Document Server function requires the optional Hard Disk Drive (40 GB).
- Data for documents in the Document Server function list that were scanned in using the Scan function and stored using the Facsimile function are not displayed.
- The documents stored by scanning are not available to print.
- You can fax documents stored using the facsimile feature. To fax documents, use the Facsimile Feature display.
- Optional Desk Top Binder V2 Professional or Desk Top Binder V2 Lite are required for transferring data to your computer.



Relationship between Document Server and Other Functions

The following table lists the relationship between the Document Server and other machine functions.

Function name	How to issue storage instructions	Displaying a list	Printing documents	Sending documents
Copy	Copy/Document Server	Enabled	Enabled	Disabled
Facsimile	Facsimile	Enabled	Enabled	Enabled
Scanner	Scanner	Disabled	Disabled	Disabled



Reference

For information about storing, sending and manipulating files when using the Facsimile function, see "Using Document Server", *Facsimile Reference <Advanced Features>*.

For information about storing and manipulating files when using the scanner function, see "Using Document Server", *Scanner Reference*.



Features and Benefits

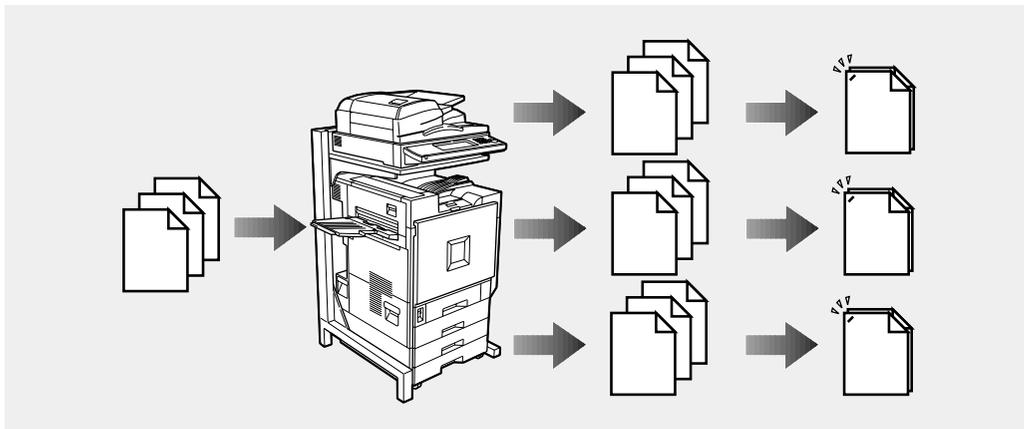
On Demand Printing

Use to print any saved document as required.

❖ Your current situation might be...

Are you wasting time always looking for the same document because you regularly make copies of that document?

- When you need to print multiple sets of documents 2-sided and stapled together, you normally print the originals, make duplex copies and then staple them together manually.



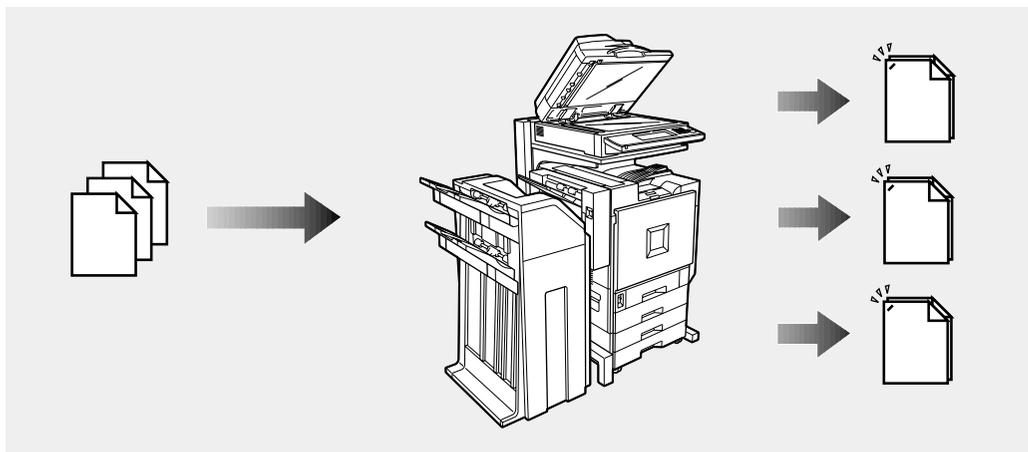
ZFOX010J



❖ With the Document Server

If you save your document in the Document Server, you can print it out at any time with the necessary print settings, such as duplex and stapling.

You can store fax documents and document data so that you can print them whenever necessary.



ZFFH070E

Note

- Stapling require the installation of the optional 2 Tray Finisher.
- Duplex printing require the installation of the optional duplex unit.
- You can use a password to prevent others from printing saved documents.



File Merge Printing

You can combine multiple scanned documents to print them in one set.

❖ Your current situation might be...

You want to combine several originals that are different in density, size, and paper weight.

- Scrapped and pasted originals
- Photo originals
- One sided originals
- Two sided originals



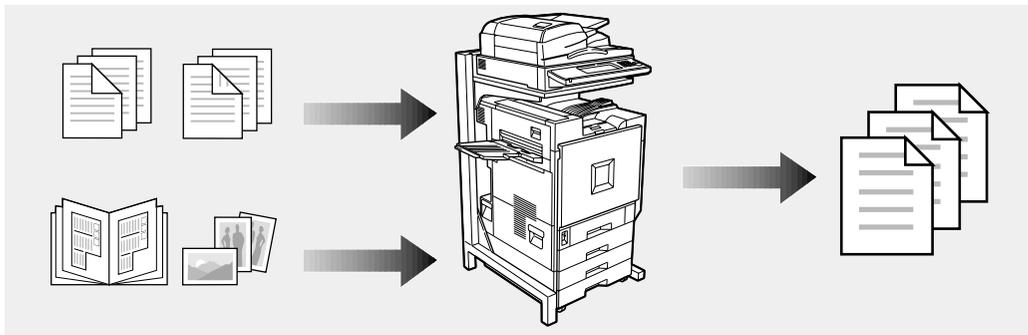
ZFFH080E



❖ With the Document Server

Set the print order to print documents together.

When scanning, you can mix documents fed from the ADF with documents placed on the Exposure Glass.



ZFFH090E

Note

- ❑ You can check the print result by printing a sample set before making a large print run by pressing the **[Sample Copy]** key. If you are not satisfied with the print result of some pages of the set, you can scan that part again.



Facsimile Resend

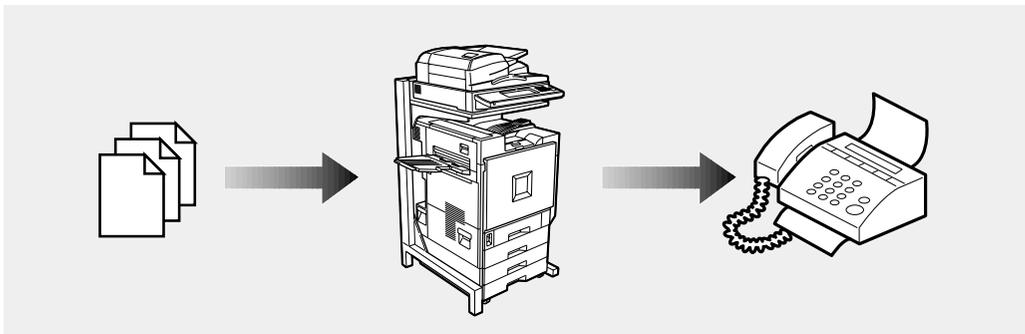
You can send a stored document repeatedly. For more information about sending a stored document repeatedly, see "Sending a Stored File", *Facsimile Reference <Advanced Features>*.

❖ You current situation might be...

- When you need to retransmit multiples sets of the same documents, you have to scan them again and again.

❖ With the Document Server

You can send the original data stored in memory whenever necessary. You can merge and send data stored from a previous fax with additional scanned originals.



ZFEH800J



Operation from a Computer

If you install Desk Top Binder V2 Professional or Desk Top Binder V2 Lite on your computer you can check the contents of the stored documents, print copies for confirmation and perform other operations. You can also delete data stored in the Document Server. In addition, you can also export documents stored in the Document Server to your computer as a file.

You can also perform tasks on data stored in the Document Server from your computer, rather than from the machine.

Note

- You can perform the following operations from your computer:
 - Search by File Name and User Name
 - Indicate easily the 1st page of your documents
 - Display the document information, change the file name and the password
 - Delete documents
 - Copy documents to your computer
 - Print documents
 - Send the stored facsimile documents
- Desk Top Binder V2 Lite or optional Desk Top Binder V2 Professional must be installed to operate Document Server from your computer.

Reference

For more detailed information, refer to Desk Top Binder V2 Professional/Lite manuals or the Help file.



Scanning Originals

You can scan the originals you want to save in the Document Server using the control panel of the machine. The originals can be either on the exposure glass or in the document feeder.

The saved documents will automatically be named in the order of scanning as “COPY0001”, “COPY0002”....

Reference

Storing documents using other than Document Server, see the manuals for each function.

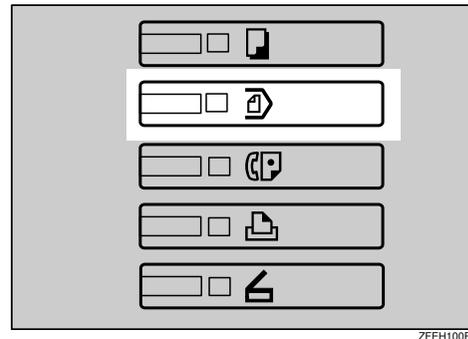
Note

- You can set whether to automatically delete documents stored in the Document Server after a set number of days. Default is set to delete after one day. To change the setting, see [p.171 “Key Operator Tools”](#).
- You can change the file names that are assigned automatically.
- You can use a password to prevent others from printing saved documents.
- After storing a file, you may not be able to change the file name or User Name of the file for a while.

- When you scan color documents during color printing, the indicator may not blink for a while even though the Scanner has started.

Scanning in Document Server Mode

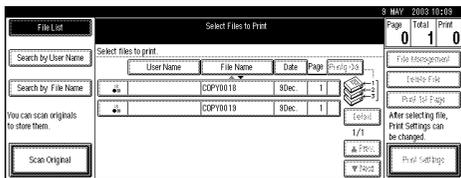
- 1** Press the **[Document Server]** key.



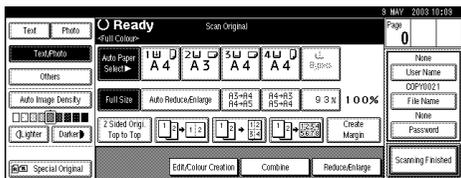
The “Select Files to Print” display appears.



2 Press [Scan Original].



The "Scan Original" display appears.



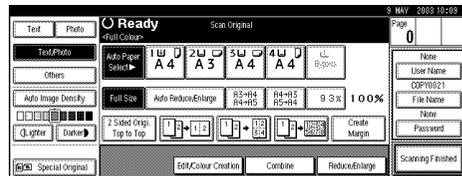
3 Enter a file name, user name, or password if necessary.

Note

- ❑ If you do not wish to register a file name, go to step 4.
- ❑ If you do not register a file name, one is automatically assigned.

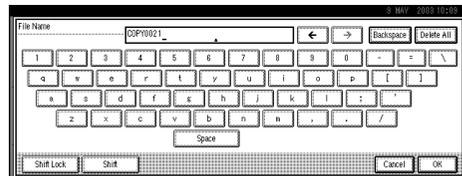
To change the file name

1 Press [File Name].



The "File Name" display appears.

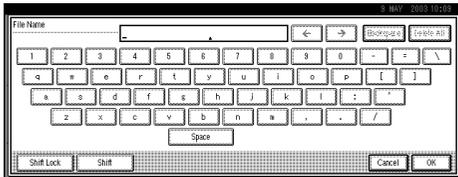
2 Press [Delete All] to delete the old file name.



Note

- ❑ You can also use [Backspace] to delete unnecessary characters.

3 Enter a new file name.



Note

- A string of up to 10 characters can be entered as a file name. Note that only eight characters of each file name are displayed in the document list.



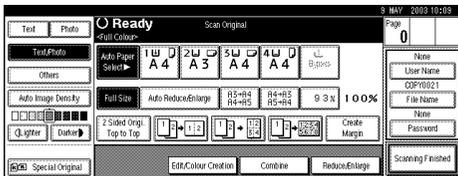
Reference

For more information about how to enter characters, see [p.198 “Entering Text”](#).

4 Press [OK].

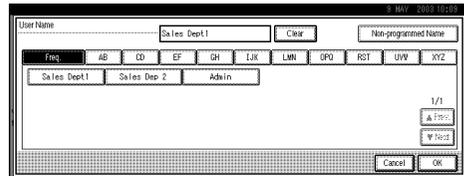
To register or change the user name

1 Press [User Name].



If user names have already been registered, the "User Name" display appears. If user names have not been registered, go to step 4.

2 To change your user name to a registered user name, select a registered user name from the list, and then press [OK].



This has changed to the User Name that has been set.

To change your user name to an unregistered user name, go to the next step.

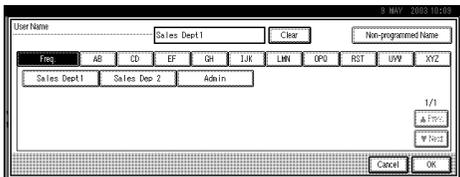


Reference

For more information about how to register users, see [p.177 “To Register the New User Code”](#).

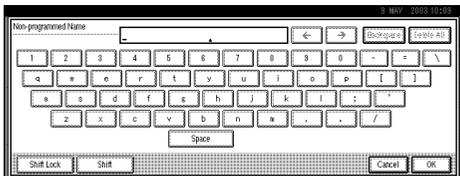


- 3 To enter an unregistered user name, press [Non-programmed Name].**



The screen used to enter the user name appears.

- 4 Enter the new user name.**



Reference

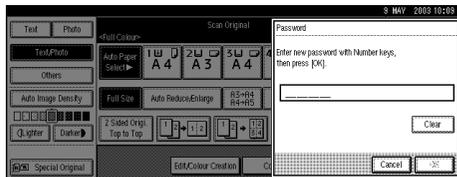
For more information about how to enter characters, see p.198 “Entering Text”.

- 5 Press [OK].**

To set or change the password

- 1 Press [Password].**

- 2 Enter the password using the number keys (4 digits).**



Note

- To change the number entered, press [Clear] or the [Clear/Stop] key and enter a new number.

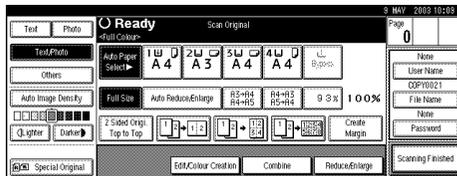
- 3 Press [OK] or the [#] key.**

- 4 Place your originals either on the exposure glass or in the document feeder.**

Reference

For more information about how to place the types of originals that can be placed, see *Copier Reference*.

- 5 Make any desired settings.**



Note

- Press **[Scanning Finished]** to cancel the file name, password, or print settings and return to the “Select Files to Print” display.

Reference

For details, see the explanations of each function in this manual.

6 Press the **[Start]** key.

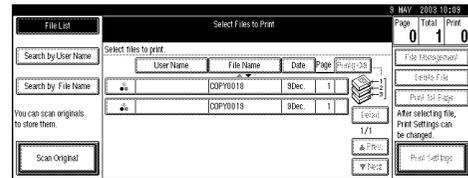
The machine starts scanning, and the document will be saved in the Document Server. The saved documents are displayed on the “Select Files to Print” display.

Note

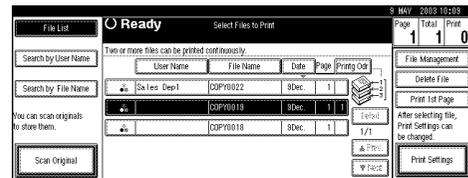
- To stop scanning, press the **[Clear/Stop]** key.
- To resume the paused scanning job, press **[Continue]** in the confirmation dialog box. To delete the saved images and cancel the job, press **[Stop]**.
- When a password is stored, **1** appears on the left side of the file name.

7 Press **[Scanning Finished]**.

To change the file name, user name, or password

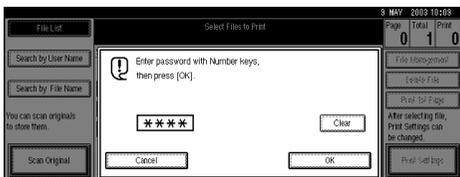
1 Select the document for which the user name, file name, or password is to be changed.

- If no password is set for the document, the line for the selected document is highlighted.

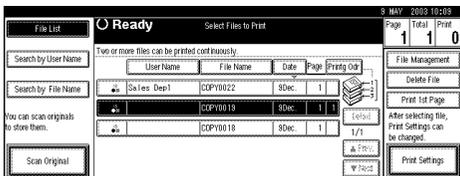




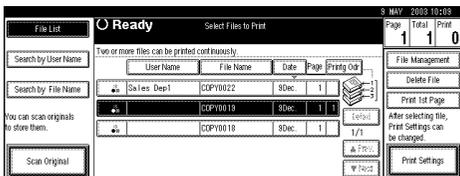
- If a password has already been set for the document, the password entry dialog box appears. Enter the password, and then press [OK].



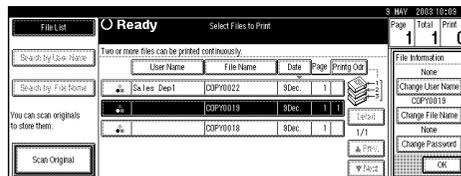
The line for the selected document is highlighted.



2 Press [File Management].



3 Press [Change File Name], [Change User Name], or [Change Password].



4 Enter the new file name, user name, or password using the letter keys or number keys, and then press [OK].

Reference

For more information about changing the file name, see [p.120 “To change the file name”](#).

For more information about changing the user name, see [p.121 “To register or change the user name”](#).

For more information about changing the password, see [p.122 “To set or change the password”](#).

5 Press [OK].



Printing Saved Documents

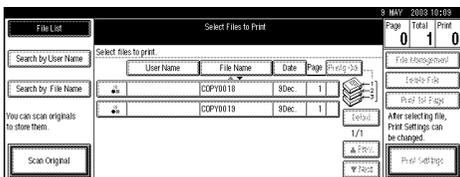
You can print any of the documents saved in the Document Server.

Follow these steps to select a document and print it out.

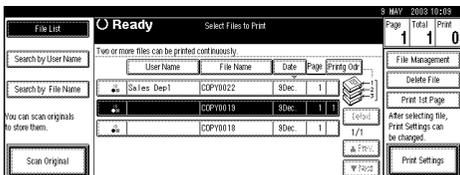
1 Press the [Document Server] key.

The “Select Files to Print” display appears.

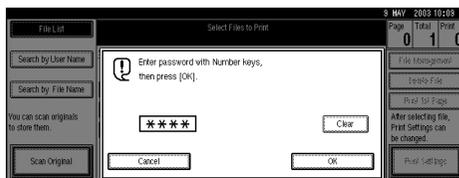
2 Press the line for the document you want to print.



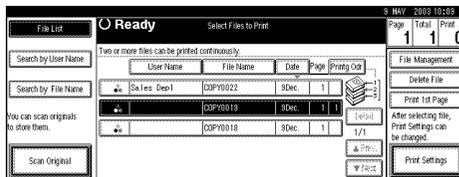
- If no password is set for the document, the line for the selected document is highlighted.



- If a password has been set for the document, the password entry dialog box appears. Enter the password, and then press [OK].



The selected line is highlighted.



Note

- You can search for the document you desire by the file name or the user name. See [p.135 “To Search by File Name”](#).
- You can sort the files in order of [User Name], [File Name], or [Date]. Press the key you want to sort by.

- ❑ If the desired file name is not shown, see the next or previous screen using [▼ Next] or [▲ Prev].
- ❑ If you cannot find the desired document using the names, you can print the first page of a document to check its contents. Press the line for the desired document, and press [Print 1st Page] followed by the [Start] key.
- ❑ Press the selected line again to cancel the print job.

3 To print more than one document, repeat step 2 to select the desired documents in the order you want to print them out.

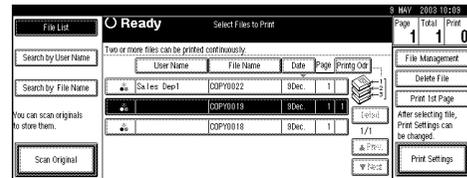
The selected order appears in the priority column next to the selected document(s).

Note

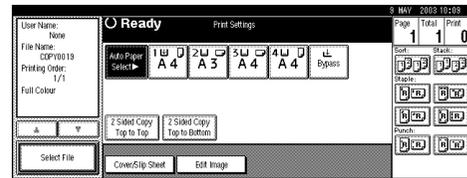
- ❑ Up to 30 documents can be selected for printing.
- ❑ If several files have been selected, you may not be able to print if the size or the resolution of each file is different.
- ❑ To change the print order, press the highlighted lines to cancel their selection, and then select them again in the order you want to print.

- ❑ Press the [Clear Modes] key to cancel all the settings.
- ❑ If you press [Printg Odr], the selected documents are displayed in printing order.

4 If you need to change any of the print settings, press [Print Settings].



The “Print Settings” display appears.



Note

- ❑ The print settings are stored in the machine after printing and applied to the next printing.
- ❑ If several files have been selected, the print settings of the first file are stored in memory but those of the other files are not.

- The print setting items are listed below. For more information about the print results according to each setting, see *Copy Reference <Basic Features>*.

❖ Tray

- Auto Paper Select
- Tray 1
- Tray 2
- Tray 3
- Tray 4
- Bypass

❖ Binding format

- 2-Sided Copy Top to Top
- 2-Sided Copy Top to Bottom

❖ Cover handling

- Cover/Slip Sheet
- Edit Image

❖ Finish

- Sort
- Rotate Sort
- Staple
- Punch

- When multiple documents are printed at the same time, the print settings made for the document printed first are applied to all other documents.
- If you select multiple files, you can confirm the file names or print order of the files you selected in step **3** by scrolling through the list with [▼] or [▲].
- Press **[Select File]** to return to the “Select Files to Print” display.

5 Enter the required number of prints using the number keys.

Note

- Up to 99 can be entered.
- To change the value entered, press the **[Clear/Stop]** key and enter the new value.
- If you print more than one set using the Sort function, you can check the print result by printing out only the first set. See [p.129 “Sample Copy”](#).

6 Press the **[Start]** key.

The machine starts printing.

Note

- To pause the print job, press the **[Clear/Stop]** key. In the confirmation dialog box, press **[Continue]** to resume it, or press **[Stop]** to cancel it.

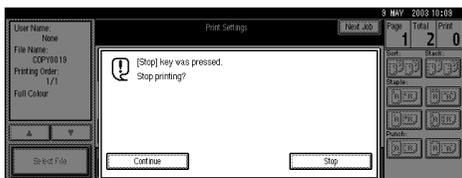


Stopping printing

You can stop printing in progress.

1 Press the **[Clear/Stop]** key.

The following confirmation dialog box appears.



2 Press **[Stop]**.

The printing operation stops.

Note

- To cancel printing from being stopped, press **[Continue]** in the confirmation dialog box. Printing then continues for the remaining part of the document.

Changing the number of copies during printing

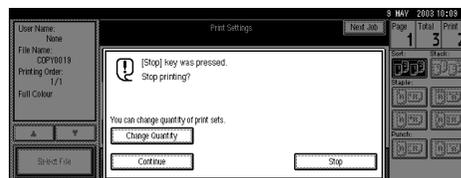
You can change the number of copies during printing.

Limitation

- The number of copies can only be changed with the Sort function selected in the print settings.

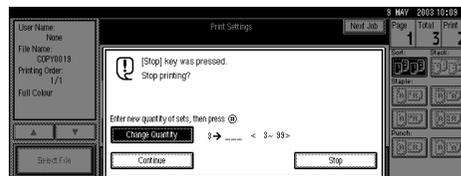
1 Press **[Clear/Stop]**.

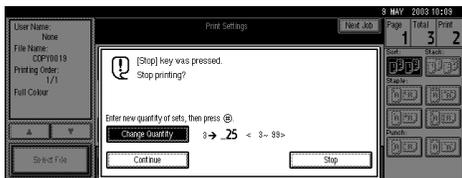
The following dialog box appears.



2 Press **[Change Quantity]**.

3 Use the number keys to enter a new number of copies.



**4** Press the [#] key.**5** Press [Continue].

Printing restarts.

Sample Copy

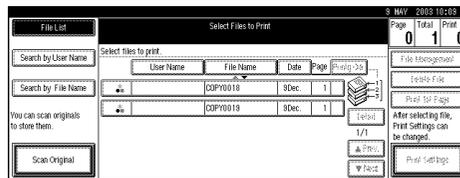
If you print multiple sets using the Sort function, you can check if the print order or the print settings are correct by printing out only the first set using the **[Sample Copy]** key.

! Limitation

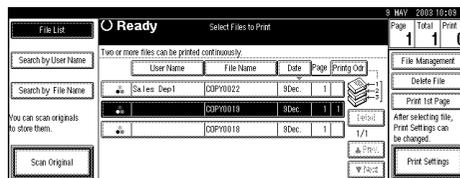
- This function can be used only when the Sort function has been turned on.

1 Press the [Document Server] key.

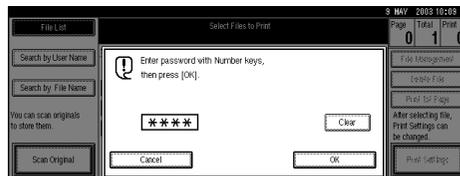
The "Select Files to Print" display appears.

2 Select the document to be printed.

- If no password is set for the document, the line for the selected document is highlighted.

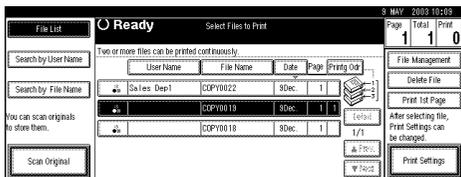


- If a password has been set for the document, the password entry dialog box appears. Enter the password, and then press [OK].





The selected line is highlighted.

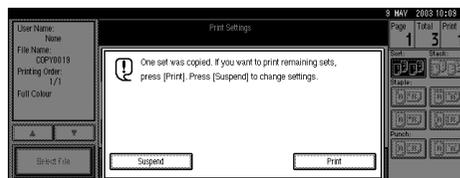


Note

- You can search for a desired document by user or file name by using **[Search by User Name]** or **[Search by File Name]**, respectively. See p.171 “User Code Management”.
- You can sort document names in the list by the user names, file names, or dates. To sort the documents, press **[User Name]**, **[File Name]**, or **[Date]**.
- You can scroll up or down the file names listed by using **[Prev.]** or **[Next]**, respectively.
- To cancel a document selection, press the highlighted line for the selected document.

3 Press the **[Sample Copy]** key.

4 After the first set is printed out, press **[Print]** to print the rest of the print job. Press **[Suspend]** to cancel printing and return to the “Print Settings” menu for changing the settings.



Print First Page

You can print the first page of the document selected in the “Select Files to Print” display to check the contents.

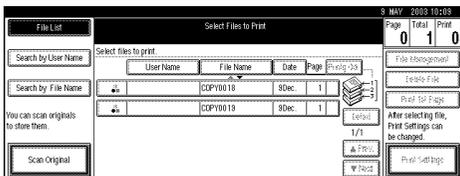
If more than one document is selected, the first page of each document is printed.

1 Press the **[Document Server]** key.

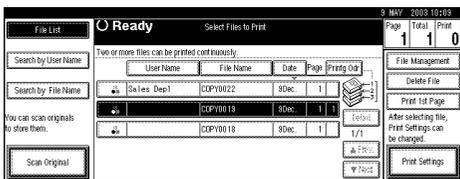
The “Select Files to Print” display appears.



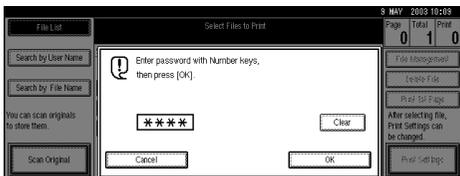
2 Select the document to be printed.



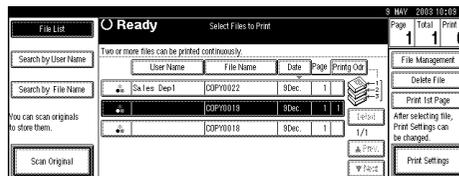
- If no password is set for the document, the line for the selected document is highlighted.



- If a password has been set for the document, the password entry dialog box appears. Enter the password, and then press **[OK]**.



The selected line is highlighted.

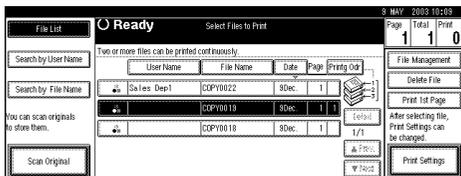


Note

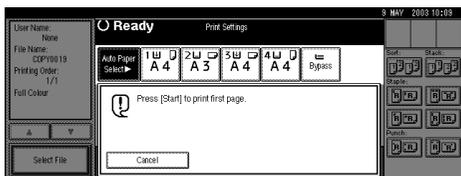
- ❑ You can search for a desired document by the user or file name, using **[Search by User Name]** or **[Search by File Name]**, respectively. See p.171 “User Code Management”.
- ❑ You can sort document names in the list by the user names, file names, or dates. To sort the documents, press **[User Name]**, **[File Name]**, or **[Date]**.
- ❑ You can scroll up or down the file names listed by using **[Prev.]** or **[Next]**, respectively.
- ❑ To cancel a document selection, press the highlighted line for the selected document.



3 Press [Print 1st Page].



The following confirmation dialog box appears.



4 Press the [Start] key.

The first page is printed out.

Note

- To cancel printing of the first page, press [Cancel].



Deleting Saved Documents

All unnecessary documents should be deleted.

This section describes how to delete saved documents.

Important

- ❑ You can save up to 1,000 documents in the Document Server. No more documents can be saved when there are 1,000 documents in the Document Server. You should delete unnecessary documents. The maximum number of files that can be stored is 1,000. However, under the following conditions the maximum will be less than 1,000:

- When there are more than 2,000 pages in a file
- When more than 2,000 pages have been stored
- When there is less disk space available to files in the Document Server because other files are stored on the disk

- ❑ You can set the timer to delete the documents stored in the Document Server with the User Tools.

Note

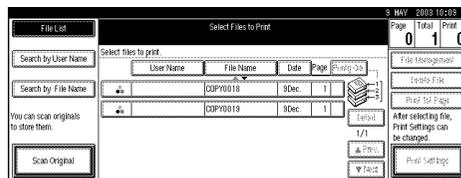
- ❑ You can delete all the saved documents at a time with the User Tools.

Follow these steps to delete saved documents.

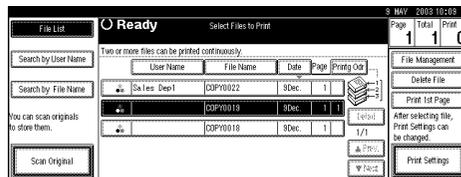
1 Press the **[Document Server]** key.

The “Select Files to Print” display appears.

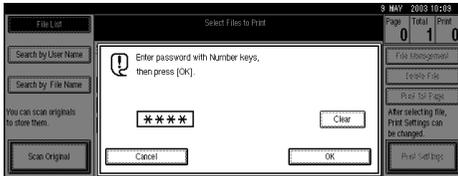
2 Select the document to be deleted.



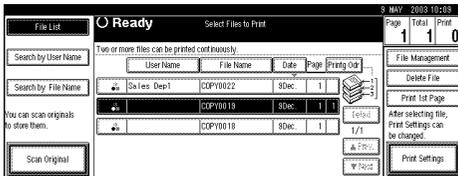
- If no password is set for the document, the line for the selected document is highlighted.



- If a password has been set for the document, the password entry dialog box appears. Enter the password, and then press **[OK]**.



The selected name is highlighted.



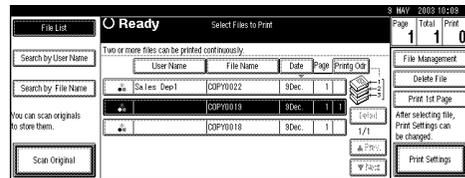
Note

- You can search for the document you desire by the file name or the user name. See [p.135 “To Search by File Name”](#).
- You can sort the files in order of **[User Name]**, **[File Name]**, or **[Date]**. Press the key you want to sort by.
- If the desired file name is not shown, see the next or previous screen using **[▼ Next]** or **[▲ Prev.]**.

- If you cannot find the desired document using the names, you can print the first page of a document to check its contents. Press the line for the desired document, and press **[Print 1st Page]** followed by the **[Start]** key. See [p.130 “Print First Page”](#).
- Press the selected line again to cancel the print job.

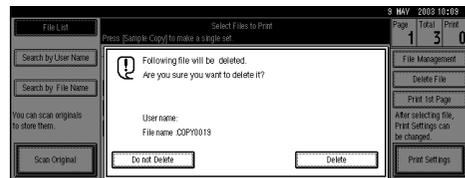
3 Repeat step 2 if you want to select more than one document.

4 Press [Delete File].



A confirmation dialog box appears.

5 Press [Delete] to delete the document.



Note

- To cancel the delete operation, press **[Do not Delete]**.



Searching Saved Documents

You can use either the **[Search by File Name]** or **[Search by User Name]** key to search for documents stored on the Document Server. You can also list the stored documents in the order you prefer. If you install Desk Top Binder V2 Lite/Professional on your computer, you can search and sort the documents from your computer.



Reference

For details about Desk Top Binder V2 Lite/Professional, see the manual or the Help file of Desk Top Binder V2 Lite/Professional.

❖ Search by File Name

You can search the documents stored in the Document Server by the file name.

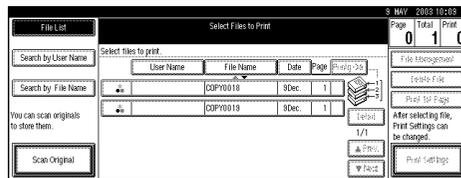
❖ Search by User Name

You can search the documents stored in the Document Server by the user name.

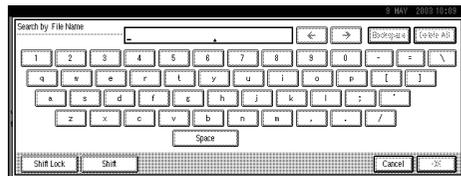
To Search by File Name

This searches for documents on the Document Server that match a file name.

- 1** Press the **[Document Server]** key.
- 2** Press **[Search by File Name]**.



- 3** Enter the file name using the letter keys.

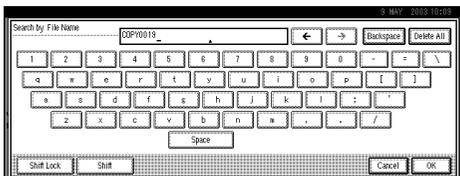


Reference

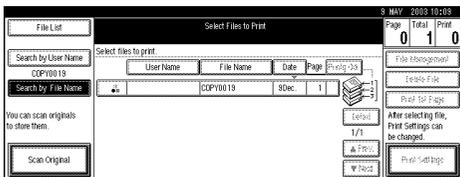
For details on entering characters, refer to [p.198 “Entering Text”](#).



4 Press [OK].



Only the files beginning with the name entered appear in the “Select Files to Print” display.



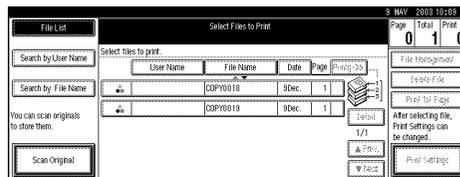
Note

- To display all the files saved in the Document Server, press [File List].

To Search by User Name

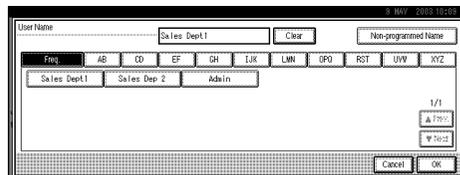
This searches for documents on the Document Server that match a user name.

- 1 Press the [Document Server] key.
- 2 Press [Search by User Name].



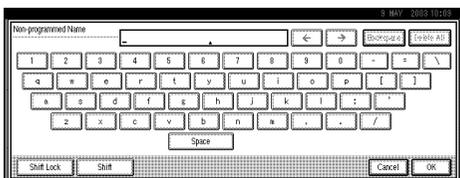
If user names have already been registered, the "Search by User Name" display appears. If user names have not been registered, the "Non-programmed Name" display appears.

- 3 To specify a registered user name, select the user name from the displayed list, and then press [OK].





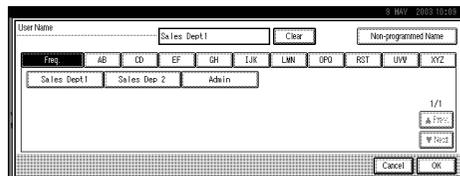
- 4** To specify an unregistered user name, press [Non-programmed Name]. The entry dialog box below appears. Enter the unregistered user name in the entry dialog box, and then press [OK].



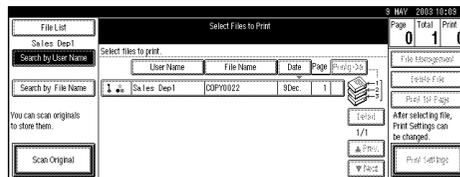
Reference

For more information about how to enter characters, see [p.198 “Entering Text”](#).

- 5** Press [OK].

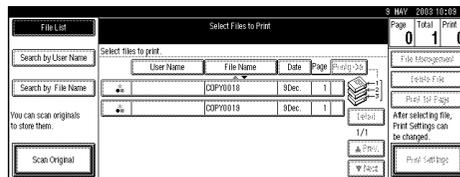


Only the files beginning with the name entered appear in the “Select Files to Print” display.



Note

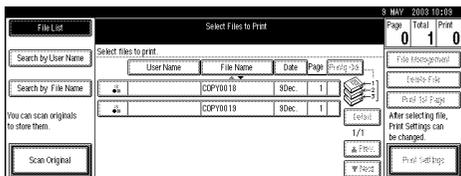
- To display all the files saved in the Document Server, press [File List].



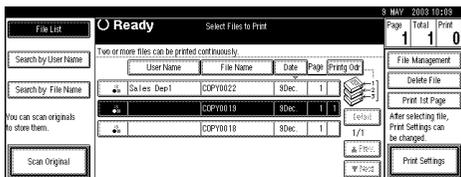


To Check the Details of Stored Documents

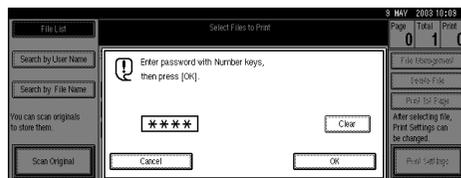
- 1** Press the **[Document Server]** key.
The “Select Files to Print” display appears.
- 2** Select the document for which you want detailed information.



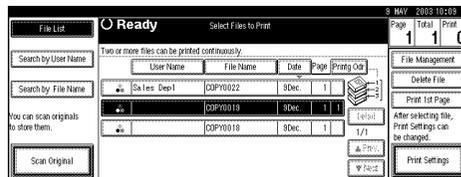
- If no password is set for the document, the line for the selected document is highlighted.



- If a password has been set for the document, the password entry dialog box appears.
Enter the password and press **[OK]**.



The selected name is highlighted.



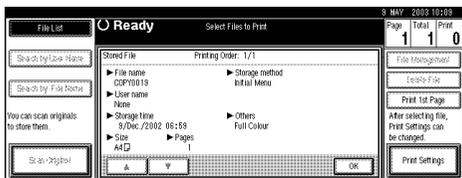
- Note**
- You can search for a desired document by the user or file name, using **[Search by User Name]** or **[Search by File Name]**, respectively. See [p.171 “User Code Management”](#).
 - You can sort document names in the list by the user names, file names, or dates. To sort the documents, press **[User Name]**, **[File Name]**, or **[Date]**.



- ❑ You can scroll up or down the file names listed by using [**▲**Prev.] or [**▼**Next], respectively.
- ❑ If you cannot determine the contents of a desired document by its file name, you can print just the first page of the document for checking purposes. To do this, select the document to be checked, and then Press [**Print 1st Page**].
- ❑ To cancel document selection, press the highlighted line for the selected document.

3 Press [**Detail**].

The detailed information about the document is displayed.



Note

- ❑ If you have selected several documents, use [**▲**] or [**▼**] to view the details of each document.
- ❑ Press [**OK**]. The "Select Files to Print" display appears.



7. User Tools (System Settings)

Accessing the User Tools (System Settings)

This section is for the key operators in charge of this machine. You can change or set the machine's default settings.

Preparation

After using the User Tools, be sure to exit from the User Tools.

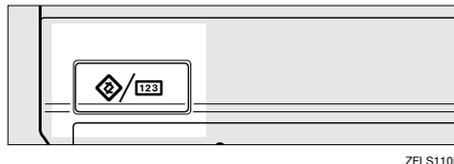
The selected key is highlighted.

Any changes you make with the User Tools remain in effect even if the main power switch or operation switch is turned off, or the **[Energy Saver]** key is pressed.

Depending on whether options are installed or not, the illustrations may differ.

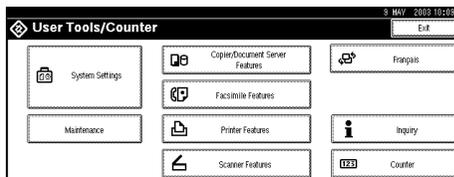
Changing the Settings

- 1 Press the **[User Tools/Counter]** key.

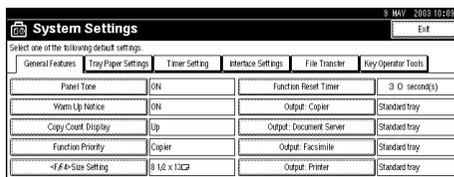


The User Tools Main Menu appears.

- 2 Press **[System Settings]**.



- 3 Select the desired menu and press the desired key.



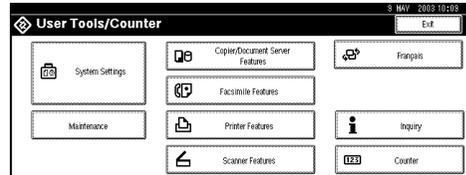
- 4** Change the settings by following the instructions on the display panel. Then press [OK].

 **Note**

- [OK]: Press to set the new settings and return to the previous menu.
- [Cancel]: Press to return to the previous menu without changing any data.
- To cancel the changes made to settings and return to the normal function display, press the **[User Tools/Counter]** key.

Exiting from the User Tools

- 1** After changing the User Tools settings, press [Exit] on the User Tools Main Menu.



You can exit the User Tools, and the machine is ready for copying or printing.

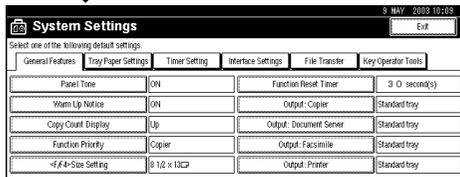
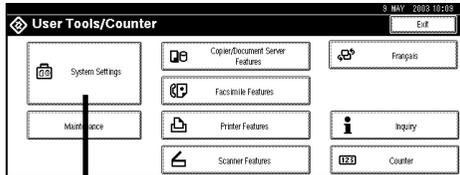
 **Note**

- You can also exit from the User Tools by pressing the **[User Tools/Counter]** key.



User Tools Menu (System Settings)

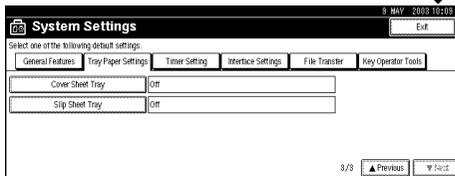
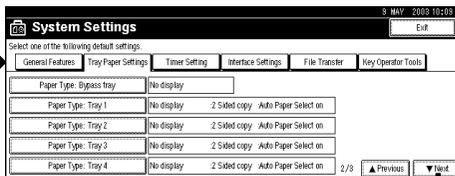
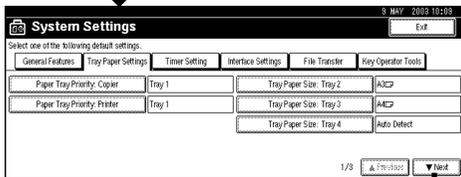
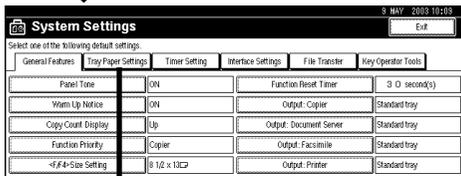
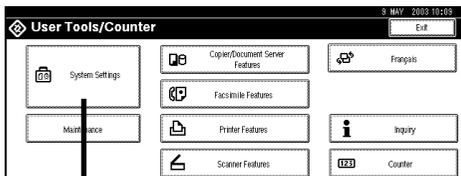
❖ “General Features”, see p.149 “General Features”



ZFFH131E

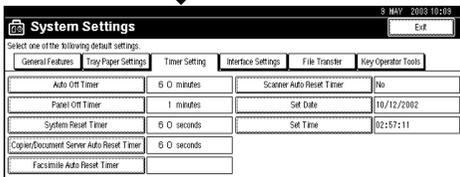
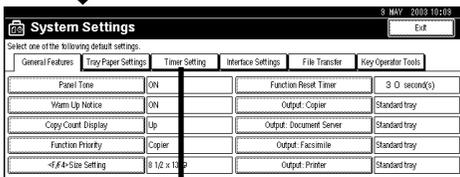
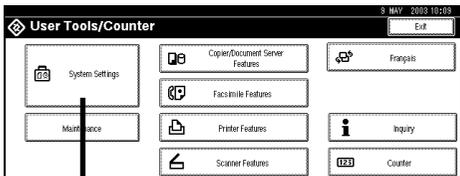


❖ “Tray Paper Settings”, see p.153 “Tray Paper Settings”.





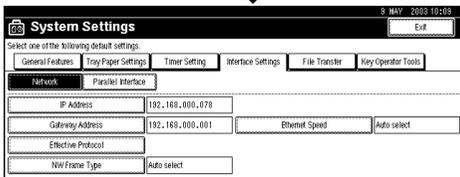
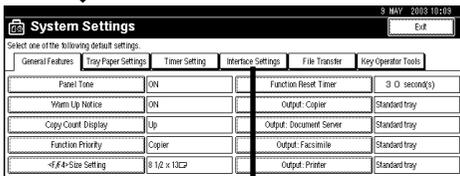
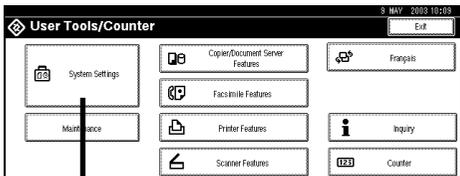
❖ “Timer Setting”, see p.158 “Timer Setting”



ZFFH151E



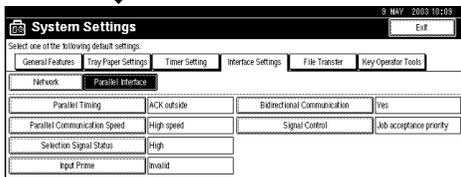
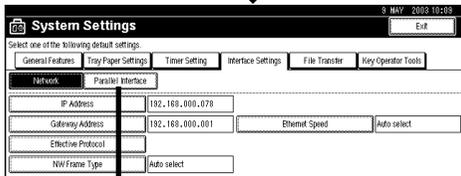
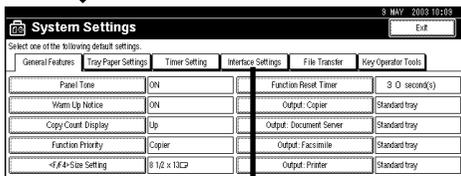
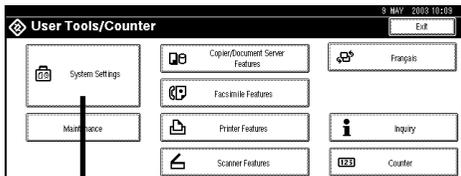
❖ “Interface Settings/Network”, see p.162 “Interface Settings/Network”



ZFFH161E

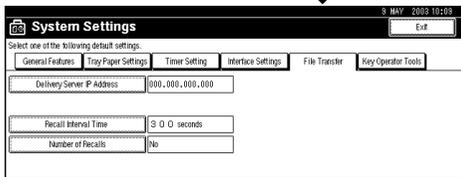
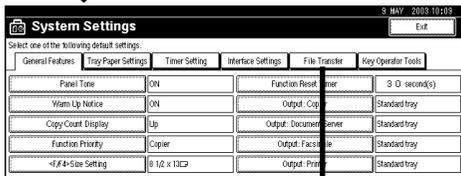
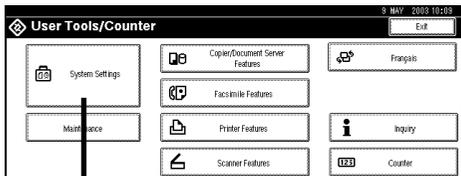


❖ “Interface Settings/Parallel Interface”, see p.163 “Interface Settings/Parallel Interface”





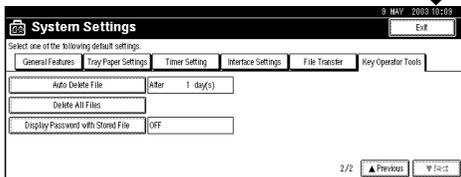
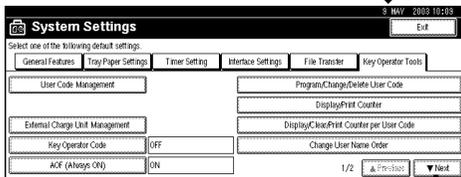
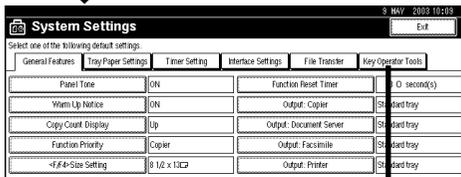
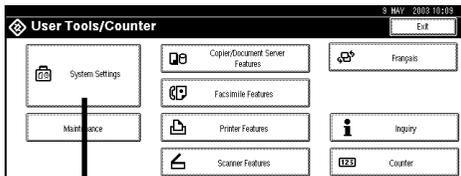
❖ “File Transfer”, see p.169 “File Transfer”



ZFFH181E



❖ “Key Operator Tools”, see p.171 “Key Operator Tools”





Settings You Can Change with the User Tools

Reference

For how to access the User Tools, see [p.140 “Accessing the User Tools \(System Settings\)”](#).

General Features

❖ Panel Tone

The beeper (key tone) sounds when a key is pressed.

Note

- Default: *ON*

❖ Warm Up Notice (for Copy/Document Server function only)

You can specify whether the beeper sounds when the machine becomes ready for copying after Energy Saver mode is deactivated or the power is turned on.

Note

- If the “Panel Tone” setting is “OFF”, the beeper does not sound irrespective of the “Warm Up Notice” setting.
- Default: *ON*

❖ Copy Count Display (for Copy/Document Server function only)

The copy counter can be set to show the number of copies made (count up) or the number of copies remaining to be made (count down).

Note

- Default: *Up* (count up)
- 

❖ Function Priority

You can specify the mode to be displayed immediately after the operation switch is turned on or System Reset mode is turned on.

Note

- Default: *Copier*

❖ <F/F4> Size Settings

Currently three types of F size are available: 8¹/₂"×13", 8¹/₄"×13", and 8"×13". The document feeder or exposure glass sensor cannot distinguish these three types of originals. This function sets the F size for the document feeder or exposure glass sensor. Auto Paper Select or Auto Reduce/Enlarge can be used for F size originals based on this setting. You'll find it very convenient to use the machine with the F size setting.

Note

- Default: 8¹/₂"×13"

❖ Function Reset Timer

The length of time the machine waits before changing modes when using the multi-access function. This is useful if you make many copies where you have to change the settings for each copy. If you set a large value, you can prevent jobs from other functions interrupting the copy job.

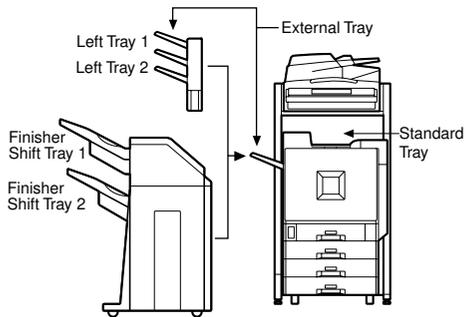
Note

- Default: *Set Time*
- When you select "Set Time", enter the time (3~180 seconds by 1 second steps) with the number keys.
- The default time setting is 30 seconds.



❖ **Output: Copier**

You can specify a tray to which documents are delivered.



ZFQP100E

- *Standard Tray*
- External Tray
- Finisher Shift Tray 1
- Finisher Shift Tray 2
- Left tray 1
- Left tray 2

❖ **Output: Document Server**

You can specify a tray to which documents are delivered.

- *Standard Tray*
- External Tray
- Finisher Shift Tray 1
- Finisher Shift Tray 2



- Left tray 1
- Left tray 2

 **Note**

- For details about output trays, refer to [p.151 “Output: Copier”](#).

❖ **Output: Facsimile**

You can specify a tray to which documents are delivered.

- *Standard Tray*
- External Tray
- Finisher Shift Tray 1
- Finisher Shift Tray 2
- Left tray 1
- Left tray 2

 **Note**

- For details about output trays, refer to [p.151 “Output: Copier”](#).

❖ **Output: Printer**

You can specify a tray to which documents are delivered.

- *Standard Tray*
- External Tray
- Finisher Shift Tray 1
- Finisher Shift Tray 2
- Left tray 1
- Left tray 2

 **Note**

- The output trays set on the printer driver have priority over the output tray specified above.
- For details about output trays, refer to the illustration in [p.151 “Output: Copier”](#).
- If 2 Tray Finisher is installed and the Staple function is selected, the machine outputs the paper from Finisher Shift Tray 2 regardless of the output setting.

Tray Paper Settings

❖ Paper Tray Priority: Copier (for Copy/Document Server function only)

You can specify the output tray for delivery.

- Tray 1
- Tray 2
- Tray 3
- Tray 4

 **Note**

- Default: *Tray 1*
- When optional paper feed units are installed, Tray 3 and Tray 4 are displayed.
- When the optional 2000-sheet Large Capacity Tray is installed, Tray 3 is displayed.

❖ Paper Tray Priority: Printer (for printer function only)

You can specify the output tray for delivery.

- Tray 1
- Tray 2
- Tray 3
- Tray 4

Note

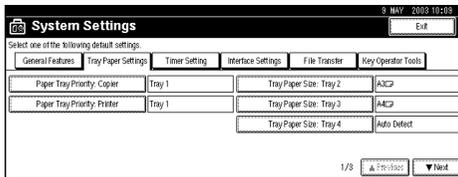
- Default: *Tray 1*
- When optional paper feed units are installed, Tray 3 and Tray 4 are displayed.
- When the optional 2000-sheet Large Capacity Tray is installed, Tray 3 is displayed.

❖ Specifying the Priority Paper Tray

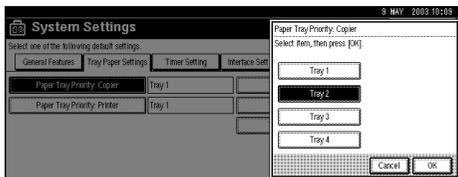
You can specify the Priority Paper Tray when copying or printing. The Priority Paper Tray is the tray selected when the machine is turned on and also the tray initially used by Auto Paper Select and Auto Tray Switching.

Tray 1 is the Priority Paper Tray. However, if the optional 2000-sheet Large Capacity Tray is installed, Tray 3 is the Priority Paper Tray.

- ① Press **[Paper Tray Priority: Copier]** or **[Paper Tray Priority: Printer]**.

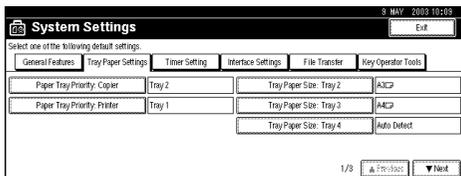


- ② Select the tray to be used as the Priority Paper Tray and then press **[OK]**.





The Priority Paper Tray is set and the display returns to the System Settings.



❖ Tray Paper Size: (Tray 2-4)

Select the size of the copy paper set in the paper tray.

Note

Tray 1 is A4  paper exclusive. Load only the A4 size paper.

❖ The paper sizes you can set for trays 2 and 4 are as follows:

Auto Detect, A3 , B4JIS , A4 , A4 , B5JIS , B5JIS , A5 , 11"×17" , 8 1/2" ×14" , 8 1/2" ×11" , 8 1/2" ×11" , 8" ×13" , 8 1/2" ×13" , 8 1/4" ×13" , 7 1/4" ×10 1/2" , 8K , 16K , 16K 

❖ The paper sizes you can set for tray 3 is as follows:

- When the optional paper feed unit (500×1 or 500×2) is installed
Auto Detect, A3 , B4JIS , A4 , A4 , B5JIS , B5JIS , A5 , 11"×17" , 8 1/2" ×14" , 8 1/2" ×11" , 8 1/2" ×11" , 8" ×13" , 8 1/2" ×13" , 8 1/4" ×13" , 7 1/4" ×10 1/2" , 8K , 16K , 16K 
- When the optional 2000-sheet Large Capacity Tray is installed
A4 , 8 1/2" ×11" 

Reference

"Loading Paper", *Maintenance Guide Copier System Edition*

 **Important**

- If the specified paper size differs from the size of paper actually set in the paper tray, a paper misfeed might occur because the paper size is not detected correctly.

 **Note**

- The tray fence for the optional 2000-sheet Large Capacity Tray is fixed. If you need to change the paper size, contact your service representative.

❖ Paper Type: Bypass tray

Sets the display so you can see what type of paper is loaded in the bypass tray.

❖ The paper types you can set for the bypass tray are as follows:

- No Display, Recycled Paper, Special Paper, Color Paper, Letterhead, Preprinted Paper, Thick Paper, OHP, Plain:Dup.Back, Thick:Dup.Back

 **Note**

- Default: *No Display*
- Letterhead is not available for printer function.

❖ Paper Type (Tray1-4)

Sets the display so you can see what type of paper is loaded in each of the paper trays. This information is used by the print function to automatically select the paper tray.

❖ The paper types you can set for trays 1-4 are as follows:

- No Display, Recycled Paper, Special Paper, Color Paper, Letterhead, Preprinted Paper

Note

Default:

- Paper Type: *No Display*
- Copying Method: *2 Sided Copy*
- Apply Auto Paper Select: *Yes*

A key mark is displayed on the paper tray if No is selected for Apply Auto Paper Select.

Letterhead is not available for printer function.

When you set the same size and type of paper on the different trays, and set each tray as "2 Sided Copy" or "1 Sided Copy", you must set the upper tray as "2 Sided Copy". However, if either one of the trays is set as "Paper Tray Priority", set the tray to "2 Sided Copy".

Limitation

Auto Paper Select can only be selected for the Copy function if No display and Recycled paper are selected. However, Auto Paper Select is not used if No is selected.

❖ Cover Sheet Tray (for Copy/Document Server function only)

Allows you to specify and display the paper tray to set cover sheets. After selecting the paper tray, you can also specify the display timing and copy method for two-sided copying.

Note

The functions that use the Cover Sheet Tray setting are the front cover function and both covers function.

When At Mode Selected is selected, the cover settings options are only displayed when the cover function or slip sheet function is selected.

You can only set the Copying Method in Duplex setting when At Mode Selected is selected.



❖ Slip Sheet Tray (for Copy/Document Server function only)

Allows you to specify and display the paper tray to set slip sheets. After selecting the paper tray, you can also specify the display timing and copy method for two-sided copying.

Note

- When you use the Slip Sheet function, you can use the output tray specified in the Slip Sheet Tray setting.
- When At Mode Selected is selected, the options are only displayed when the cover function or slip sheet function is selected.

Reference

See "Cover/Slip Sheet", *Copy Reference <Advanced Features>*.

Timer Setting

When entering Set Time mode, if a key operator code has been set, you must enter the code (up to 8 digits). See [p.177 "User Code"](#)

❖ Auto Off Timer

The machine turns off automatically to conserve energy after a specified amount of time has past after a job. This function is called "Auto Off".

The machine status after the Auto Off operation is called "Off mode" or "Sleep mode". For the Auto Off Timer, specify the time to elapse before the Auto Off function is activated.

The Time can be set from 10 seconds to 240 minutes.

Note

- Default: *60 minute*
- Enter numbers with number keys

- Use the [←] and [→] keys to switch between minutes and seconds.
- Press [Clear] if you enter the wrong value.
- Auto off may not work while an error is displayed.
- The Auto Off function is not available in the following cases:
 - When the warning display has appeared
 - When paper has been misfed
 - When the cover is open
 - When the "Add Toner" message has appeared
 - When the cartridge is being changed
 - When the "User Tools/Counter" display has appeared
 - During Fuser Adjust
 - When the facsimile, printer or another function is in use
 - When operation has been interrupted during printing
 - When On Hook dial is being used
 - When the Quick dial or Group dial destination is being entered
 - When the Data In indicator is blinking
 - When the "Sample Print/Locked Print" display has appeared

❖ Panel Off Timer

Set the amount of time the machine waits before switching the panel off after copying has finished or the last operation is performed.

Note

- This setting is only used if the Auto Off Timer setting is set to a longer interval than the Panel Off Timer setting.
- Default: *1 minute*

- Enter a time interval between 10 seconds and 240 minutes with the number keys.
- Press the [←] or [→] keys to move the cursor between minutes and seconds.
- Press **[Clear]** if you enter the wrong value.

❖ System Reset Timer

The System Reset setting is a setting that automatically switches to the screen for the function set in Function Priority. This happens if no operations are performed or when an interrupted job is cleared. This setting sets the system reset interval.

Note

- Default: *Yes, 60 seconds*
- The time can be set from 10 to 999 seconds.
- Press **[Clear]** if you enter the wrong value.

❖ Copier/Document Server Auto Reset Timer

Specifies the time to elapse before the copier and Document Server functions are reset.

Note

- If No is selected, the machine will not automatically switch to the user code entry screen, and you will not be able to limit who uses the machine.
- Default: *Yes, 60 seconds*
- The time can be set from 10 to 999 seconds.

❖ Facsimile Auto Reset Timer

Specifies the time to elapse before the facsimile function is reset.

Note

- Default: *30 seconds*
- The time can be set from 30-999 seconds.
- Press **[Clear]** if you enter the wrong value.



❖ Scanner Auto Reset Timer

Specifies the time to elapse before the scanner function is reset.

Note

- If No is selected, the machine will not automatically switch to the user code entry screen, and you will not be able to limit who uses the machine.
- Default: *Yes, 60 seconds*
- The time can be set from 10-999 seconds.
- Press **[Clear]** if you enter the wrong value.

❖ Set Date

Set the date for the copier's internal clock.

Note

- To change among year, month and day, press the **[←]** and **[→]** keys.
- Press **[Clear]** if you enter the wrong value.

❖ Set Time

Set the time for the copier's internal clock.

Note

- To change between minutes and seconds, press the **[←]** and **[→]** keys.
- Press **[Clear]** if you enter the wrong value.



Interface Settings/Network

❖ IP Address

Before using this machine with the network environment, you must configure the IP address.

Note

- Default: *Auto-Obtain (DHCP)*
- When you select **[Specify]**, enter the IP address and subnet mask as “xxx.xxx.xxx.xxx”(“x” indicates a number).
- If you use the interface for Ethernet and IEEE 1394 (IP over 1394) at the same time, settings must be made with care.
- When you use the IEEE 1394 interface on a network, you cannot use the Ethernet interface in the same domain. To use both interfaces in the same domain, set different values for the Subnet Mask.
- When you select **[Specify]**, be sure not to set the same IP address as one of the other machines in the network.

❖ Gateway Address

A gateway is a connection or interchange point that connects two networks. Configure the gateway address for the router or host computer used as a gateway.

Note

- Default: *000.000.000.000*
- To get the address, contact your network administrator.

❖ Effective Protocol

Select the protocol to use in the network.

Note

- Default: TCP/IP: *Effective*, NetWare: *Effective*, NetBEUI: *Effective*, AppleTalk: *Effective*



❖ NW Frame Type

Select the frame type when you use NetWare.

Note

Default: *Auto select*

❖ LAN Type

When you have installed the wireless LAN board (optional), select interface, Wireless LAN (IEEE 802.11b) or Ethernet.

Note

Default: *Ethernet*

❖ Ethernet Speed

Set the access speed for networks.

Select a speed that matches your network environment. "Auto select" should usually be specified.

Note

Default: *Auto select*

Interface Settings/Parallel Interface

❖ Parallel Timing

Specifies the timing setting for the parallel interface. Under normal circumstances, you will not need to change this setting.

Note

Default: *ACK outside*



❖ **Parallel Communication Speed**

Specifies the communication speed for the parallel interface. If the communication speed is set too fast, data transfers may not flow smoothly. If this occurs, change the setting to “Standard”.

Note

Default: *High speed*

❖ **Selection Signal Status**

Specifies the level for the select signal setting of the parallel interface.

Note

Default: *High*

❖ **Input Prime**

Specifies whether the prime signal is active or inactive when an input prime signal is sent. Under normal circumstances, you will not need to change this setting.

Note

Default: *Invalid*

❖ **Bidirectional Communication**

Specifies the printer's response mode and so forth for a status request when using the parallel interface. If you experience problems when using other manufacturers printers, set this to “Off”. However, if this is set to “Off”, bidirectional communication will not work.

Note

Default: *Yes*

❖ Signal Control

Specifies the error processing settings for when an error occurs when printing from a computer or sending faxes. Under normal circumstances, you will not need to change this setting.

Note

- Default: *Job Acceptance Priority*

Interface Settings/IEEE 1394

Preparation

You must install the IEEE 1394 interface board (optional) into the machine.

❖ IP Address

When you connect the machine to a network using the IEEE 1394 interface board (optional), you must configure the IP address.

Note

- Default: *Auto-Obtain (DHCP)*
- When you select [**Specify**], enter the IP address and subnet mask as “xxx.xxx.xxx.xxx”(“x” indicates a number).
- To configure the IP address, you need to enable “IP over 1394”.
- If you use the interface for Ethernet and IEEE 1394 (IP over 1394) at the same time, settings must be made with care.
- When you use the IEEE 1394 interface on a network, you cannot use the Ethernet interface in the same domain. To use both interfaces in the same domain, set different values for the Subnet Mask.



❖ IP over 1394

When you use the IP over 1394 function of the IEEE 1394 interface to connect the machine to the network, or you print using a personal computer with the IP over 1394 driver, you must set IP over 1394.

Note

Default: *Active*

❖ SCSI print (SBP-2)

When you print using the SCSI Print client function supported by Windows 2000 or Windows XP, you must set SCSI Print.

Note

Default: *Active*

❖ Bidirectional SCSI print

Specifies the printer's response mode and so forth for a status request when using the IEEE 1394 interface.

Note

Default: *ON*

If this is set to “OFF”, bidirectional communication functions will not work.

❖ Host Name

Specify the host name.

❖ Domain Name

Specify the domain name.



Interface Settings/IEEE 802.11b

Preparation

You must install the wireless LAN board (optional) into the machine.

Note

- Be sure to make all settings simultaneously.

❖ Communication Mode

Specifies the communication mode of the Wireless LAN.

Note

- Default: *802.11 Ad hoc*

❖ SSID Setting

Specifies SSID to distinguish the access point in the Infrastructure mode.

Note

- Default: *blank (ASSID)*
- The characters that can be used are ASCII 0x20- 0x7e (32 bytes).
- If blank is specified in 802.11b Ad hoc mode or Ad hoc mode, “ASSID” appears.



❖ Channel

Specifies a channel when you select 802.11b Ad hoc mode or Ad hoc mode.

Note

- Default: *11*
- The channel can be set from following channel:
 - Metric Version: 1-13
 - Inch Version: 1-11

❖ Wireless LAN Signal

Shows the radio wave conditions of the access point connected in Infrastructure mode.

Note

- Radio wave status is shown when you press the **[Wireless LAN Signal]** key.

❖ WEP (Encryption) Setting

Specifies the encryption of the Wireless LAN. If this is set to “Active”, you must enter the WEP key.

Note

- Default: *Inactive*

❖ Transmission Speed

Specifies the communication speed of the Wireless LAN.

Note

- Default: *Auto*

❖ Return to Defaults

You can return the Wireless LAN settings to the default.

File Transfer

Make these settings as required when using ScanRouter V2 Lite/Professional.

Note

- The file transfer function requires the optional Hard Disk Drive (40 GB).
- The optional ScanRouter V2 Professional is required for distributing received fax documents.

❖ Delivery Server IP Address

Specifies the IP address of the ScanRouter V2 Lite/Professional delivery server for distributing documents or data from the machine.

Note

- Default: *000.000.000.000*
- Press the [←] or [→] key to move between each group of three numbers.
- Press [Clear] if you enter the wrong number.
- You must also set the delivery server IP address on ScanRouter V2 Lite/Professional. The relevant setting on the machine will be overwritten by the delivery server IP address set on ScanRouter V2 Lite/Professional.

❖ Fax RX File Transmission

- Setting per Line
Specifies whether or not received fax documents should be sent to ScanRouter V2 Professional for each of the fax lines.

Note

- Default: G3 Port 1/*Do not Deliver*, G3 Port 2/*Do not Deliver*, G3 Port 3/*Do not Deliver*

- **Print at Delivery**
Specifies whether or not received fax documents that are sent to ScanRouter V2 Professional should also be printed by the machine at the same time.

**Note**

- Default: *No*

- **File to Deliver**
Specifies whether all received fax documents or only received fax documents that include delivery codes (documents with an ID and F code) should be sent to ScanRouter V2 Professional.

**Note**

- Default: *File with Dlvry Code*

- **Delivery Failure File (Dlvry Failure File)**
If a received fax document cannot be sent to ScanRouter V2 Professional, the document is stored in the machine's memory. To print this stored data, select “Print File”; to delete the data, select “Delete File”.

**Note**

- If the machine can send data to ScanRouter V2 Professional, data is sent automatically.
- If you delete the data, you will not be able to distribute or print the data.

❖ Recall Interval Time

Specifies the interval the machine waits before resending data or a document, if it could not be sent to ScanRouter V2 Professional.

**Note**

- Default: *300 seconds*
- Enter an interval within the range of “60 -999 seconds” (in one second intervals) with the number keys.
- Press **[Clear]** if you enter the wrong number.

❖ Number of Recalls

When sending documents or data stored in this machine to ScanRouter V2 Professional again, you can set the maximum number of times you can send.

Note

- Default: *No*
- Select **[Yes]**, and then enter the number of times within the range of “1 to 99” with the number keys.
- Press **[Clear]** if you enter the wrong number.
- This setting is for the Scanner function. The distribution of received fax documents will still be performed.

Key Operator Tools

If an access code has been set, you cannot use the Key Operator Tools unless you enter the access code (max. 8 digits). See [p.172 “Key Operator Code”](#).

Reference

For details about user codes, see [p.177 “User Code”](#).

❖ User Code Management

Allows you to control who uses the machine by setting user codes for users.

To use function selected with "User Code Management", you must enter a registered user code. User codes must be registered for user code management. For more information about user codes, see [p.177 “User Code”](#).

 **Note**

- You can select following functions and modes;
 - Copier
Full color, Black & White, Single Color, Two Color
 - Printer
PC Control: ON, PC Control: OFF, Color ^{*1}, Black & White ^{*1}
^{*1} Selectable when PC Control: OFF is selected.
 - Others
Document Server, Facsimile, Scanner

◆ Key Operator Code **Important**

- The administrator must properly manage the key operator code set for the machine. This specifies whether or not to use passwords (max. 8 digits) to control use of the “Timer Setting” or “Key Operator Tools” settings for the access codes.

 **Note**

- Default: *OFF*
- If you select “ON”, enter the access code (max. 8 digits) with the number keys, and then select “Partial” or “All Initial Settings” to set the access limit.
 - If you select “Partial”
A key operator code is only required for the “Timer Setting” and “Key Operator Tools” for initial settings. “Menu Protect” will be set for “Maintenance” in the Printer Features.
 - If you select “All Initial Settings”
A key operator code will be required to access all the items in the System Settings, Maintenance, Copier/Document Server Features, Facsimile Features, Printer Features, and Scanner Features.
- If you select “ON”, you will need to enter the key operator code to access the Key Operator Code screen.



❖ AOF (Always ON)

Activate the Auto Off Timer settings. Normally, you need not change this setting.

Note

- Default: *ON*

❖ Program/Change/Delete User Code

Adds, changes or deletes user codes (max 8 digits). See [p.177 “User Code”](#).

Note

- You can register up to 100 user codes. If you add the optional User Account Enhance Unit, you can register up to 500 user codes.
- You can also register user codes from SmartNetMonitor for Admin.
- Even if you change the user codes, the counter values are not cleared.
- If you clear a user code, the counter values associated with it are also automatically cleared.
 - **[Program/Change]**
This registers new user codes and changes the functions that can be used with user codes and user names.
 - **[Delete]**
Deletes a user code.
 - **[Delete All]**
Deletes all the user codes.

❖ Display/Print Counter

Allows you to view and print the various counters.

- Display/Print Counter
Displays counters for each functions (Total, Copier, Facsimile, and Printer).

- **Print Counter List**
Prints out a list of counters for all functions (Total, Copier, Facsimile, Printer, A3/DLT, Duplex and Staple).
 - ① If you want to print Counter List, press **[Print Counter List]**, and then press the **[Start]** key.

**Note**

- If you do not want to print, then press **[Cancel]**.
- ② Press **[Exit]**

❖ Display/Clear/Print Counter per User Code

Allows you to view and print the various counters accessed with user codes and to set the values to 0.

**Important**

- If you use “Delete All” for the user codes, the user code names (Fax function), counter values, and communication settings will also be deleted. Be sure to print the list of these settings before pressing the “OK” key.

**Note**

- Press **[▲]** or **[▼]** to show all counters.
 - **Print Counter all User Code**
Prints the counter values for all of the user codes.
 - **Clear Counter all User Code**
Sets the counter value for all of the user codes to 0.
 - **Print Counter per User Code**
Prints the counter values for each of the user codes.
 - **Clear Counter per User Code**
Sets the counter value for each of the user codes to 0.

**Reference**

For more information about printing the counter, see [p.191 “Printing the Counter”](#), and about clearing the counter, see [p.194 “Clearing the Counter”](#).



❖ Change User Name Order

Changes the order of the registered user codes.

Note

- You can rearrange the order of items on the same page, but you cannot move the items to another page. For example, you cannot move an item from "PLANNING" to "DAILY".
- Select the user code you want to move and press the [←], [↑], [↓], and [→] keys to change its position. To move it to the end, press "To End".

❖ Auto Delete File

You can select whether the files on the Document Server will be deleted after a specified amount of time or not.

Note

- Default: *No*
- When "Yes" is selected for "Auto Delete File", the Auto Delete File function applies to the files stored after the "Yes" setting is made.
- When "No" is selected for "Auto Delete File", files stored on the Document Server are not deleted.
- If you select **[Yes]**, you can set the time interval from 1 to 180 days by one day steps.
- The default setting for the time interval is "After 1 day(s)". With this default setting, documents are deleted one day (24 hours) after being stored on the Document Server.

❖ Delete All Files

You can delete all stored files on the Document Server.

Note

- You can delete stored files even if a password is set for a file.
- A confirmation dialog box appears. To delete all stored files, press **[Yes]**.



❖ Display Password with Stored File

You can select whether the documents which have passwords will be temporarily displayed or not.

Note

- If you forget the password, press **[ON]**. After checking your password, be sure to press **[OFF]**.





User Code

To use this function, the optional User Account Enhance Unit TypeB must be installed on the printer. The management and control items for each function are as follows:

❖ Copier

Limits the users who can use the Copy function and manages the use of each user code.

❖ Document Server

Limits the users who can use the Document Server function and manages the use of each user code.

❖ Facsimile

Limits the users who can use the Fax function and manages the use of each user code.

❖ Printer

Limits the users who can use the Printer function and manages the use of each user code.

❖ Scanner

Limits the users who can use the Scanner function and manages the use of each user code.

❗ Important

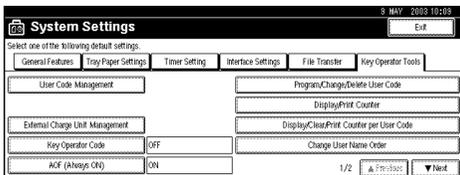
- ❑ The functions associated with each user code are the same. If you change or delete user codes, the management data and limits associated with that user code will become invalid.

To Register the New User Code

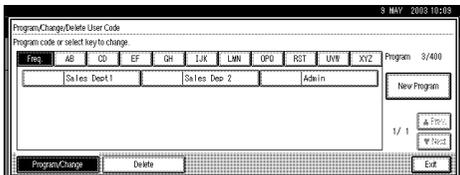
- 1** Press the **[User Tools/Counter]** key.



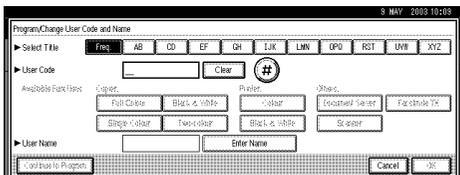
- 2** Press [System Settings].
- 3** Press [Key Operator Tools].
- 4** Press [Program/Change/Delete User Code].



- 5** Press [New Program].



- 6** Press the key for the classification you want to use from “Select Title”.



Note

- The keys you can select are as follows.
 - **[Freq.]**... Added to the page that is displayed first.
 - **[AB], [CD], [EF], [GH], [IJK], [LMN], [OPQ], [RST], [UVW], [XYZ],...** Added to the list of items in the title selected.
- You can only select one page for “Title Select”.

7 Enter the user code (8 digits max), and then press [#].

The screenshot shows a dialog box titled "Program Change User Code and Name" with a timestamp of "9 MAY 2003 10:49". It has several sections:

- Select Title:** A row of buttons labeled [Freq.], [AB], [CD], [EF], [GH], [IJK], [LMN], [OPQ], [RST], [UVW], [XYZ]. The [Freq.] button is selected.
- User Code:** A text input field containing "0000" and a "Clear" button. A '#' key is highlighted.
- Available Functions:** A grid of buttons for various functions:

Copier:		Printer:		Others:	
Fold Colour	Black & White	Colour	Document Server	Facsimile TX	
Single Colour	Two-colour	Black & White	Scanner		
- User Name:** An "Enter Name" button.
- Buttons:** "Continue to Program", "Cancel", and "OK".

Note

- If you make a mistake, press **[Cancel]** or the **[Clear/Stop]** key, and then enter the code again.

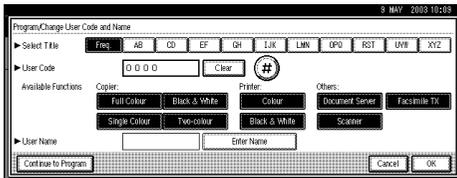
8 Select the functions to be used with the user code from “Available Functions”.

This screenshot is identical to the one above, but the "Available Functions" section is highlighted with a grey background, indicating the step where the user selects functions to be used with the entered code.

 **Note**

- The functions that can be selected are as follows.
 - Copier:
[Full Colour], [Single Colour], [Black & White], [Two-colour]
 - Printer:
[Colour], [Black & White]
 - Others:
[Document Server], [Scanner], [Facsimile TX]

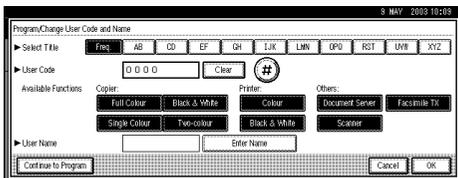
9 Press [Enter Name], and then enter the name for the user code.

 **Note**

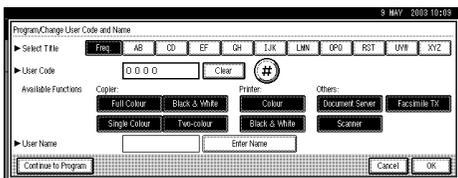
- For details on how to enter the name for the user code, see [p.198 “Entering Text”](#).
- This can be used to attach the user name to documents in the Document Server. You do not need to enter a user code for this. For more information about Document Server, see [p.109 “Document Server”](#).



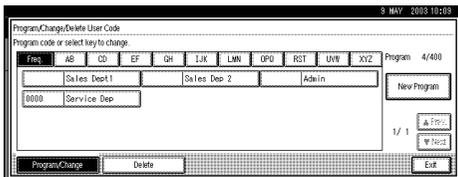
- 10** To continue registering user codes, press [Continue to Program], and then repeat the procedures from step **6**.



- 11** Press [OK].



- 12** Press [Exit].



The display returns to the initial settings screen.

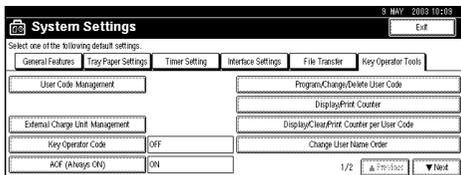


Changing the User Code

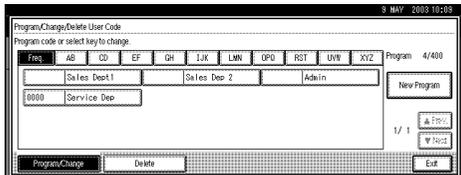
Important

- ❑ This operation also deletes a user code registered for multiple functions. Current be specific using the deleted user code will be disabled.

- 1** Press the [User Tools/ Counter] key.
- 2** Press [System Settings].
- 3** Press [Key Operator Tools].
- 4** Press [Program/Change/Delete User Code].



- 5** Select the user code you want to change.





6 Enter the new information for the item that you want to change.

Program:Change User Code and Name

9 MAY 2008 10:08

Select Title: [Freq] [AB] [CD] [EF] [GH] [IJK] [LMN] [OPQ] [RST] [UVW] [XYZ]

User Code: 2 0 0 0 [Clear] [#]

Available Functions:

Copier: [Full Colour] [Black & White] [Colour] [Document Server] [Facsimile TX]

Printer: [Single Colour] [Two-colour] [Black & White] [Scanner]

Others:

User Name: [Service Dept] [Enter Name]

[Continue to Program] [Cancel] [OK]

Note

- To change a user code, select **[Clear]**, enter a new user code with the number keys, and then select **[#]**.
- For "Available Functions", highlighted buttons indicate the currently available functions. To disable an available function, select the corresponding button so that it is not highlighted. To enable an unavailable function, select the corresponding button to highlight it.
- To change a user name, select **[Enter Name]**, and then enter a new user name in the input dialog box. For more information about how to enter characters, see [p.198 "Entering Text"](#).

7 Press [OK].

Program:Change User Code and Name

9 MAY 2008 10:08

Select Title: [Freq] [AB] [CD] [EF] [GH] [IJK] [LMN] [OPQ] [RST] [UVW] [XYZ]

User Code: 2 0 0 0 [Clear] [#]

Available Functions:

Copier: [Full Colour] [Black & White] [Colour] [Document Server] [Facsimile TX]

Printer: [Single Colour] [Two-colour] [Black & White] [Scanner]

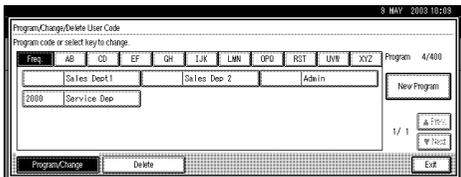
Others:

User Name: [Service Dept] [Enter Name]

[Continue to Program] [Cancel] [OK]



8 Press [Exit].



The display returns to the initial settings screen.

Clearing the User Code

Important

- This operation also deletes a user code registered for multiple functions. Current be specific using the deleted user code will be disabled.

To clear a user code

1 Press the **[User Tools/ Counter]** key.

2 Press **[System Settings]**.

3 Press **[Key Operator Tools]**.



4 Press [Program/Change/Delete User Code].

System Settings 9 MAY 2003 10:00
Exit

Select one of the following default settings:

General Features Tray Paper Settings Timer Setting Interface Settings File Transfer Key Operator Tools

User Code Management	Program/Change/Delete User Code
External Charge Unit Management	Display/PVOT Counter
Key Operator Code OFF	Display/Clear/Print Counter per User Code
ACF (Always ON) ON	Change User Name Order

1/2 [F8:502] Next

5 Press [Delete].

Program/Change/Delete User Code 9 MAY 2003 10:00
Program code or select key to change

Freq	AB	CD	EF	GH	IJK	LNM	OPQ	RST	UVW	XYZ	Program
	Sales Dept 1			Sales Dept 2				Admin			4/400
0000	Service Dep										

1/1 [F8:502] Next

Program/Change Delete Exit

6 Select the user code you want to delete.

Program/Change/Delete User Code 9 MAY 2003 10:00
Select key to delete, then press [OK]

Freq	AB	CD	EF	GH	IJK	LNM	OPQ	RST	UVW	XYZ	Program
	Sales Dept 1			Sales Dept 2				Admin			4/400
0000	Service Dep										

1/1 [F8:502] Next

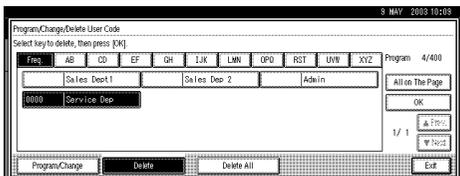
Program/Change Delete Delete All Exit

Note

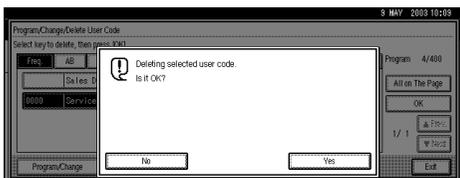
- Press [All on The Page] when you want to select all the user codes displayed on the page.



7 Press [OK].



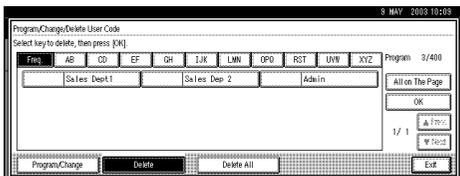
8 Press [Yes] in the confirmation screen.



Note

- If you want to quit deleting, press [No].

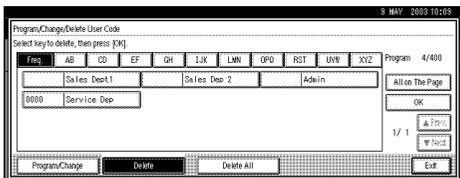
9 Press [Exit].



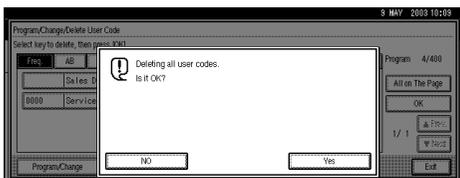
The display returns to the initial settings screen.



6 Press [Delete All].



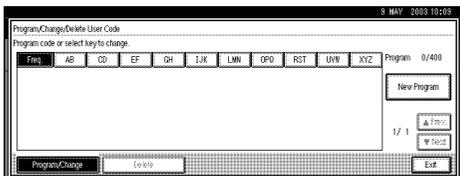
7 Press [Yes] in the confirmation screen.



Note

- If you want to quit deleting, press [No].

8 Press [Exit].



The display returns to the initial settings screen.



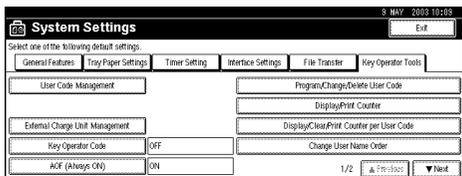
To display the counter for each user code

Using "Copy Counter", you can check the counter for each user code for the Copy/Document Server function.

Using "Print Counter", you can check the counter for each user code for the Printer function and Facsimile function.

Using "Transmission Counter", you can print the list for number of pages sent by fax and the charge for each fax sent.

- 1** Press the **[User Tools/ Counter]** key.
- 2** Press **[System Settings]**.
- 3** Press **[Key Operator Tools]**.
- 4** Press **[Display/Clear/Print Counter per User Code]**.



- 5** Press **[Print Counter]** or **[Transmission Counter]**.

The individual function counters for each user code are displayed.

The "Copy Counter" display appears first.



❖ Copy Counter

The screenshot shows the 'Copy Counter' menu. At the top, it says 'Display/Clear/Print Counter per User Code' and 'Programmed Codes 3'. Below this, there is a table with columns for 'Select all on the page', 'Full Colour', 'Black & White', 'Single Colour', and 'Two-colour'. Each column has a row of numbers (1 1 1 1, 2 2 2 2, 3 3 3 3) and a row of eight circles representing a counter. To the right of the table are buttons for 'All User Codes', 'Print All Codes', 'Clear', 'Per User Code', and 'Print All Codes' with a 'Clear' sub-button. At the bottom, there are buttons for 'Copy Counter', 'Print Counter', 'Transmission Counter', and 'Exit'.

❖ Print Counter

The screenshot shows the 'Print Counter' menu. It has the same header as the previous screen: 'Display/Clear/Print Counter per User Code' and 'Programmed Codes 3'. The table below has columns for 'Printer Colour', 'Printer Black & White', and 'Facsimile Print'. The counter rows are the same as in the previous screen. The buttons on the right are 'All User Codes', 'Print All Codes', 'Clear', 'Per User Code', and 'Print All Codes' with a 'Clear' sub-button. The bottom buttons are 'Copy Counter', 'Print Counter', 'Transmission Counter', and 'Exit'.

❖ Transmission Counter

The screenshot shows the 'Transmission Counter' menu. It has the same header: 'Display/Clear/Print Counter per User Code' and 'Programmed Codes 3'. The table below has a column for 'Fax Transmission Pages'. The counter rows are the same as in the previous screens. The buttons on the right are 'All User Codes', 'Print All Codes', 'Clear', 'Per User Code', and 'Print All Codes' with a 'Clear' sub-button. The bottom buttons are 'Copy Counter', 'Print Counter', 'Transmission Counter', and 'Exit'.



Printing the Counter

The three printable counters per User Code are the "Copy Counter", "Print Counter", and "Transmission Counter". You can print one or more of these counters at one time.

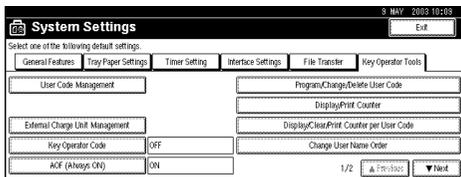
Printing the Number of Prints (Counter) for Each User Code

Using "Copy Counter", you can print the counter list for each user code for the Copy/Document Server function.

Using "Print Counter", you can print the counter list for each user code for the Printer function and Facsimile function.

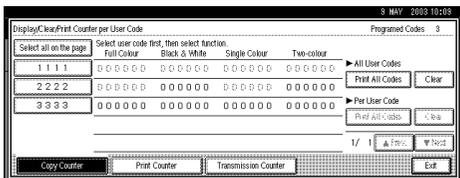
Using "Transmission Counter", you can print the list for number of pages sent by fax and the charge for each fax sent.

- 1** Press the **[User Tools/Counter]** key.
- 2** Press **[System Settings]**.
- 3** Press **[Key Operator Tools]**.
- 4** Press **[Display/Clear/Print Counter per User Code]**.





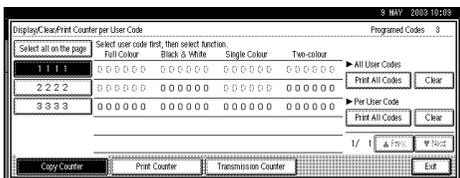
- 5** Select a User Code from the left side of the display.



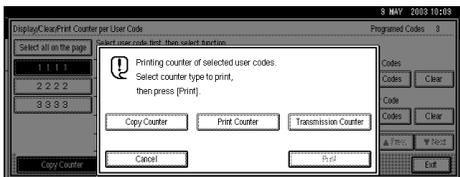
Note

- Press **[Select all on the page]** if you want to select all user codes on the page.

- 6** Press **[Print All Codes]** of **Per User Code**.



- 7** Press **[Copy Counter]**, **[Print Counter]** or **[Transmission Counter]**.



Note

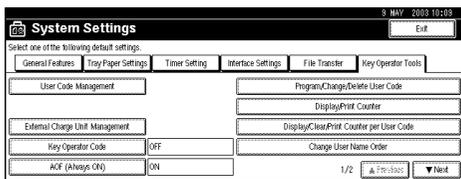
- You can select **[Copy Counter]**, **[Print Counter]** and **[Transmission Counter]** at the same time.

- 8** Press **[Print]**.

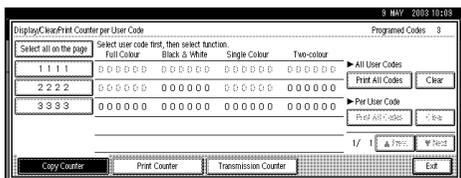


Printing the Number of Prints (Counter) for All User Codes

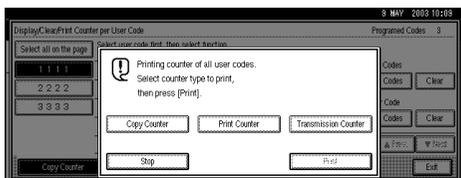
- 1 Press the **[User Tools/Counter]** key.
- 2 Press **[System Settings]**.
- 3 Press **[Key Operator Tools]**.
- 4 Press **[Display/Clear/Print Counter per User Code]**.



- 5 Press **[Print All Codes]** of **All User Code**.



- 6 Press **[Copy Counter]**, **[Print Counter]** or **[Transmission Counter]**.



 **Note**

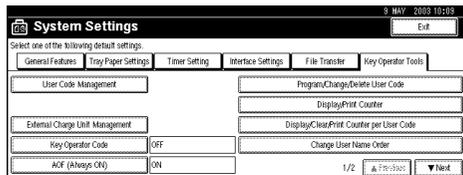
- You can select [Copy Counter], [Print Counter] and [Transmission Counter] at the same time.

7 Press [Print].

Clearing the Counter

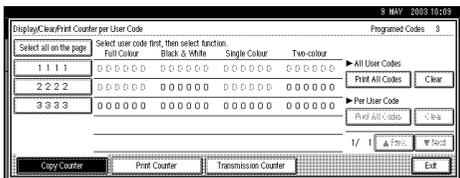
Clearing the Number of Prints (Counter) for Each User Code

- 1** Press the [User Tools/Counter] key.
- 2** Press [System Settings].
- 3** Press [Key Operator Tools].
- 4** Press [Display/Clear/Print Counter per User Code].





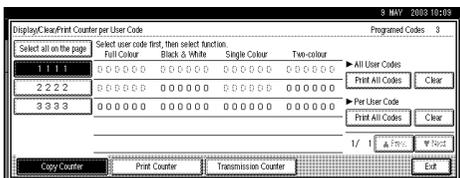
- 5** Select a User Code from the left side of the display.



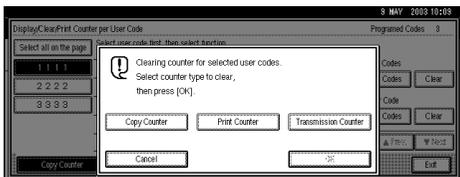
Note

- Press [All on The Page] if you want to select all user codes on the page.

- 6** Press [Clear] for Per User Code.



- 7** Press [Copy Counter], [Print Counter] or [Transmission Counter].



Note

- You can select [Copy Counter], [Print Counter] and [Transmission Counter] at the same time.

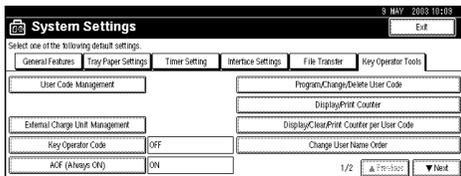
**8** Press [OK].

The user code counter will be cleared.

 **Note**

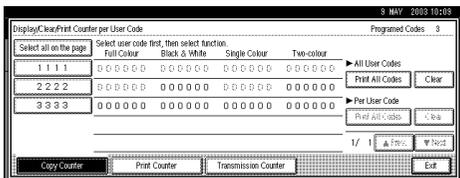
- If you want to cancel the operation, press [Cancel].

Clearing the Number of Prints (Counter) for All User Codes

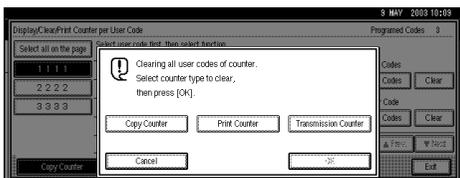
1 Press the [User Tools/Counter] key.**2** Press [System Settings].**3** Press [Key Operator Tools].**4** Press [Display/Clear/Print Counter per User Code].



5 Press [Clear] for All User Codes.



6 Press [Copy Counter], [Print Counter] or [Transmission Counter].



Note

- You can select [Copy Counter], [Print Counter] and [Transmission Counter] at the same time.

7 Press [OK].

All user code counters will be cleared.

Note

- If you want to cancel the operation, press [Cancel].



Entering Text

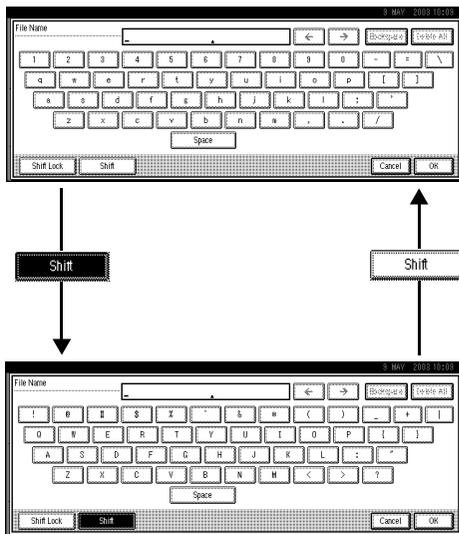
This section describes how to enter characters. When you enter a character, it appears at the position of the cursor. If there is a character at the cursor position, the entered character appears before the character.

Available Characters

- Alphabetic characters
ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz
- Symbols
- Numbers
012345689



Keys



ZFFH201E

 **Note**

- When entering uppercase characters continuously, use **[Shift Lock]** to lock the case.



How to Enter Text

Entering letters

- 1** Press [Shift] to switch between uppercase and lowercase.
 - 2** Press the letter you want to enter.
-

Deleting characters

- 1** Press [Backspace] or [Delete All] to delete characters.





8. Using SmartNetMonitor for Admin

Using SmartNetMonitor for Admin, you cannot only monitor the status of network printers, but also change configuration of the network interface board using TCP/IP or IPX/SPX.

SmartNetMonitor for Admin is equipped with the following functions.

- Device Information function
 - Checks the printer's network settings and device details.
 - Checks the number of pages printed for each computer, using the user codes.
 - Checks results of print jobs executed from the computer.
 - Enables you to change the printer's network settings.
- Device Settings function
 - Limits settings done from the control panel, and disables changes made to certain items.
 - Enables selection of paper type loaded in the printer.
- Energy Saver function
 - Switches to, and wakes up from Energy Saver mode.
- System Status function
 - Checks information about printing, paper quantity, and such, on the computer.



- Groups function
 - Monitors multiple printers at the same time. When there are many printers, you can create groups and classify printers to facilitate management.

Operating system	Protocol stack
Microsoft Windows 95/98/Me	TCP/IP provided with Windows 95/98/Me IPX/SPX provided with Windows 95/98/Me NetWare network client provided with Windows 95/98 Novell Client for Windows 95/98
Microsoft Windows 2000	TCP/IP provided with Windows 2000 IPX/SPX provided with Windows 2000 NetWare Client provided with Windows 2000 Novell Client for Windows NT/2000
Microsoft Windows XP	TCP/IP provided with Windows XP IPX/SPX provided with Windows XP NetWare Client provided with Windows XP Novell Client for Windows XP
Microsoft 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 for Windows NT/2000

 **Note**

- Select the appropriate protocol stack for your operating system.



Installing SmartNetMonitor for Admin

1 Quit all applications that are running.

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

Auto Run will start the installer.

 **Note**

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

3 Select a language for the interface, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

4 Click [SmartNetMonitor for Client/Admin].

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

After reading through the content, click [I accept the agreement.] to agree with the license agreement, and then click [Next>].

6 Follow the instructions on the screen.

 **Note**

- If you are required to restart the computer after the installation of SmartNetMonitor for Admin, restart and continue configuration.



Changing the Network Interface Board Configuration

- 1** Run SmartNetMonitor for Admin.
- 2** Click the [Group] menu, point to [Search Device], and then click [TCP/IP] or [IPX/SPX]. A list of printers appears.
 -  **Note**
 - Select the protocol of the printer for which you want to change configuration.
- 3** In the list, select the printer for which you want to change configuration.
- 4** On the [Tools] menu, click [NIB setup Tool].

NIB Setup Tool starts.
- 5** Click [Wizard] or [Property Sheet], and then click [OK].
 - When configuring the network interface board for the first time, click [Wizard].
 - When changing configuration of the network interface board or configuring details, click [Property Sheet].

Selecting [Wizard]

- 1** Enter the necessary items, and then follow the instructions on the screen.
- 



Selecting [Property Sheet]

- ❶ A configuration list appears in the dialog box.

For more information about each item in the dialog box, see SmartNetMonitor for Admin Help.

Selecting [Web Browser]

- ❶ For the Web browser setting, see [p.217 “Configuring the Network Interface Board Settings”](#).



Changing Names and Comments

You can change printer names and attach comments to help identify printers listed on SmartNetMonitor for Admin.

SmartNetMonitor for Admin allows you to change names and comments when TCP/IP or IPX/SPX is available. You can install SmartNetMonitor for Admin from the CD-ROM provided. For more information about installing SmartNetMonitor for Admin, see [p.101 “Installing SmartNetMonitor for Admin”](#).

The following utilities are used to change printer names and comments:

Note

- Each of the names, in TCP/IP form (printer name) and NetBEUI form, is changed individually. Comments are, however, common to both protocols.
- The default name consists of “RNP” and the last 3 bytes of the MAC address on the network interface board. For example, if the MAC address is 00:00:74:62:7D:D5, the default name is “RNP627DD5”. Comments are not configured.

1 Run SmartNetMonitor for Admin.

2 Click the [Group] menu, point to [Search Device], and click [TCP/IP] or [IPX/SPX]. A list of printers appears.

Note

- Select the protocol of the printer for which you want to change configuration.

3 In the list, select the printer for the network interface board you want to change configuration.

4 On the [Tools] menu, click [NIB setup Tool].

NIB Setup Tool starts.



- 5 Click **[Property Sheet]**, and then click **[OK]**.

TCP/IP

- 1 Click the **[General]** tab, and then enter the device name in the **[Device Name]** box and comment in the **[Comment]** box.
 - In the **[Device Name]** box, enter the name of the printer using up to 13 characters. The default name consists of “RNP” and the last 3 bytes of the MAC address on the network interface board. For example, if the MAC address is 00:00:74:62:7D:D5, the default name is “RNP627DD5”. Nine character names are not permitted if the prefix is “RNP”. Also, if DHCP is selected as an IP address setting, the number of characters is limited to 13.
 - In the **[Comment]** box, enter a printer comment using up to 31 characters.

NetBEUI

- 1 Click the **[General]** tab, and then enter the comment in the **[Comment]** box.

In the **[Comment]** box, enter a printer comment using up to 31 characters.
- 2 Click the **[NetBEUI]** tab.
- 3 Enter the computer name in the **[Computer Name]** box.
 - In the **[Computer Name]** box, enter a name to help identify the printers using NetBEUI. The default name consists of “RNP” and the last 3 bytes of the MAC address on the network interface board. For example, if the MAC address is 00:00:74:62:7D:D5, the default name is “RNP627DD5”. A maximum of 13 characters consisting of uppercase alphabetical letters, numbers, or symbols (except “*+./;<=>?[\|]. and space) can be used. No name is permitted if the prefix is “RNP”. You must avoid using same names on a network.



6 Click [OK].

NIB Setup Tool closes, and the setting is transmitted to the printer.

7 Exit SmartNetMonitor for Admin.



Displaying Printer Status

You can view the status of printers using SmartNetMonitor for Admin, SmartNetMonitor for Client, or a Web browser.

1 Run SmartNetMonitor for Admin.

2 Click the [Group] menu, point to [Search Device], and then click [TCP/IP] or [IPX/SPX].

Printer status is indicated by an icon in the list.

 **Note**

For more information about status icons, see SmartNetMonitor for Admin Help.

3 To see detailed status information, click the desired printer in the list, and then click [Open] on the [Device] menu.

Printer status is displayed in the dialog box.

 **Note**

For more information about dialog box items, see Help.



Locking Menus on the Printer's Control Panel

1 Start SmartNetMonitor for Admin.

2 Click the [Group] menu, point to [Search Device], and then click [TCP/IP] or [IPX/SPX].

A list of printers appears.

 **Note**

- Select the protocol of the printer for which you want to change configuration.

3 Select a desired printer.

4 On the [Tools] menu, point to [Device Settings], and then click [Lock Operation Panel Menu].

The Web browser starts, and a screen prompting you to enter the user name and password appears.

5 Enter the user name and password, and then click [OK].

To use the default account, enter no user name and enter “password” for the password.

The general configuration window appears.

6 In the [Lock Operation Panel Menu] list, click [Enable].

 **Note**

- The Panel Lock function that can be set here is the same as that on the control panel of this machine.

7 Click [Apply].

8 Exit the Web browser.



Changing the Paper Type

1 Start SmartNetMonitor for Admin.

2 Click the [Group] menu, point to [Search Device], and then click [TCP/IP] or [IPX/SPX].

A list of printer appears.

 **Note**

Select the protocol of the printer for which you want to change configuration.

3 In the list, select the printer whose paper type you want to change.

4 On the [Tools] menu, point to [Device Settings], and then click [Select Paper Type].

The Web browser starts, and a screen prompting you to enter the user name and a password appears.

5 Enter the user name and the password, and then click [OK].

To use the default account, enter no user name and enter “password” for the password.

The paper type configuration window appears.

6 Select the paper type, and then click [Apply].

7 Exit the Web browser.



Managing the Number of Copies to be Printed

Preparation

Optional User Account Enhance Unit Type C must be installed to manage the number of copies to be printed. For more information about installing User Account Enhance Unit Type C, see “User Account Enhance Unit Type C”, *Setup Guide Copier System Edition*.

1 Run SmartNetMonitor for Admin.

2 Click the [Group] menu, point to [Search Device], and then click [TCP/IP] or [IPX/SPX].

A list of printers appears.

Note

Select the protocol of the printer for which you want to change configuration.

3 In the list, select the printer whose statistics you want to manage.

4 On the [Tools] menu, click [User Management Tool].

A screen prompting you to enter a password appears.

5 Enter the password, and then click [OK].

Note

The default password is “password”.

The User Management Tool starts.

For more information about using User Management Tool, see SmartNetMonitor for Admin Help.



Configuring Energy Save Mode

- 1** Start SmartNetMonitor for Admin.
- 2** Click the [Group] menu, point to [Search Device], and then click [TCP/IP] or [IPX/SPX].
A list of printers appears.

 **Note**

- Select the protocol of the printer for which you want to change configuration.

- 3** Select the device you want to make a setting for.
You do not need to select anything if you want to make a setting for all devices in the group.
- 4** Click [Group] and point to [Energy Save Mode].
- 5** To make a setting only for the device you have selected, click [Set Individually].
- 6** To make a setting for all the devices in the group, click [Set By Group].
- 7** Then, select an energy saver mode from the menu that appears.



Setting a Password

1 Run SmartNetMonitor for Admin.

2 Click the [Group] menu, point to [Search Device], and then click [TCP/IP] or [IPX/SPX].

A list of printer appears.

 **Note**

- Select the protocol of the printer for which you want to change configuration.

3 In the list, select the printer for which you want to change configuration.

4 On the [Tools] menu, click [NIB setup Tool].

NIB Setup Tool starts.

 **Note**

- To prevent the network interface board configuration from being changed accidentally by someone other than the network administrator, you can set a password in [NIB setup Tool] that is different from the network password. Click [Option] to set a password in [NIB setup Tool].

5 Click [Property Sheet], and then click [OK].

6 Click the [Password] tab.

7 Select the [Change Password] check box, enter a password, and then click [OK].



9. Using a Web Browser

The network interface board functions as a Web server or network printer. You can use a Web browser to view printer status and configure the network interface board.

❖ **Configuring the printer**

This requires TCP/IP to be installed. After the printer has been configured to use TCP/IP, it will be possible to adjust the settings using a Web browser.



Reference

For more information about configuring the printer to use TCP/IP, see “Configuring the Printer for the Network”, *Setup Guide Copier System Edition*

❖ **Browser requirements**

- Microsoft Internet Explorer 4.01 or later
- Netscape Navigator 4.06 or later

Operating systems the browser is guaranteed to run on are all supported.



Limitation

- Sometimes after clicking [**Back**], the previous page may not appear. If this happens, click [**Refresh**] or [**Reload**].
- The text on screen may disappear or be aligned incorrectly if browser font size settings are too large. It is recommended that you use a font size equal to or smaller than “10 points” with Netscape Navigator, and “Medium” or smaller with Internet Explorer.



Going to the Top Page

After launching the Web Browser, enter the printer's IP address. See the example below. (This example is for the English version.)

http://192.168.15.16/

(In this example, the IP address of the network interface board is 192.168.15.16.)

Note

- If a DNS server is used on the network, you can enter the host name as a URL. For example, `http://webmonitor.netprinter.com/`. In order to do this, you must register the IP address and host name of the network interface board with the DNS server. Consult the network administrator for information about how to do this.
- To use the proxy server, you must set up the proxy server address for the Web browser you are using. Consult the network administrator about how to set the proxy server.



I. Header buttons

You can register favorite URLs with **[URL]**. To view the Help section, click **[Help]**.

Important

- Using the browser to access websites will entail normal connection changes.

Note

- Help is stored in the following folder on the CD-ROM in HTML format: The third folder,“(Language)” may be substituted by an appropriate language name.

**\HELP\WSMHLP\ (Language) **



2. Menu buttons

Use to configure the network interface board and confirm printer status.

Note

- When you click **[Network Config]**, a dialog box appears requesting the user name and password. Enter only the password in this dialog box. The default password is “password”.

- The password is the same as that used for remote maintenance and NIB Setup Tool. If you change a password with the Web browser, other passwords are also changed.

3. Status

Displays printer status, and network interface board, name and comments.

Configuring the Network Interface Board Settings

1 Start the Web browser.

2 Point your browser at the URL or IP address of the printer (e.g. **http://XXX.XXX.XXX.XXX** where the Xs are the number of the IP address).

The status of the chosen printer appears on the Web browser.

3 Click **[Configuration]**.

The dialog box for entering the password and user name is displayed.

4 Enter your user name and password, and then click **[OK]**.

To use the default account, enter no user name and enter “password” for the password.

5 Click the item you want to configure, and then make all the settings.

The following items can be configured:

❖ [General]

Configure general settings for the machine here.

❖ [TCP/IP]

Configure TCP/IP-related settings for the network interface board, the optional 802.11b interface unit, and the optional 1394 interface unit.

❖ [SNMP]

Configure community settings here. Up to 10 types of community name can be registered.

❖ [NetWare]

Configure settings for printing in a NetWare environment here.

❖ [AppleTalk]

Configure the network interface board or the optional 802.11b interface unit settings related to AppleTalk.

❖ [NetBEUI]

Configure the network interface board or the optional 802.11b interface unit settings related to NetBEUI here.

❖ [IEEE 1394]

Configure the optional 1394 interface unit settings related to IP over 1394 and SCSI print (SBP-2).

**Limitation**

- This page is displayed only when the optional 1394 interface unit is installed.

**❖ [IPP Authentication]**

If using IPP, configure authentication settings for printing here.

❖ [Paper Type]

Select the paper type loaded in the machine from the drop-down menu.

❖ [Password]

Follow the procedure below to change the password.

Enter the password to change the network and machine settings or delete spooled print jobs.

❖ [IEEE 802.11b (Wireless LAN)]

Configure the optional 802.11b interface unit settings related to communication.

**Limitation**

- This page is displayed only when the optional 802.11b interface unit is installed.

Verifying the Network Interface Board Settings

1 Start the Web browser.

2 Point your browser at the URL or printer's IP address (e.g. `http://XXX.XXX.XXX.XXX` where the Xs are the number of the IP address).

The status of the chosen printer appears on the Web browser.

3 Click [Config. Reference].

The dialog box for entering the password and user name is displayed.



4 Click the item you want to check.

The following items can be checked:

❖ **[General]**

Displays general settings.

❖ **[TCP/IP]**

Displays TCP/IP-related settings for the network interface board, the optional 802.11b interface unit, and the optional 1394 interface unit.

❖ **[NetWare]**

Displays the settings for printing in a NetWare environment.

❖ **[AppleTalk]**

Displays the network interface board or the optional 802.11b interface unit settings related to AppleTalk.

❖ **[NetBEUI]**

Displays the network interface board or the optional 802.11b interface unit settings related to NetBEUI.

❖ **[IEEE 1394]**

Displays the optional 1394 interface unit settings related to IP over 1394 and SCSI print (SBP-2).

❖ **[IEEE 802.11b (Wireless LAN)]**

Displays the optional 802.11b interface unit settings related to communication.


 **Linking the address (URL) to the [Help] button**

You can link the address (URL) of the **[Help]** button to Helps on the computer or Web server.

- ① Copy Helps on the CD-ROM to a desired location. Helps are located in folders labeled with abbreviated language names. For example, English Help files are in the **[EN]** folder. Be sure to copy the entire **[EN]** folder to the new location.
 - ② Using a Web browser, navigate to the Top Page, and then click **[Configuration]**.
 - ③ Enter your password, (it is not necessary to enter a user name), and then click **[OK]**.
 - ④ Enter the path to Helps in the **[Help URL]** box.
If you copied Helps to “C:\HELP\EN”, enter “file://C:/HELP/”. For example if you copied the files to a Web server and the index URL is “http://a.b.c.d/HELP/EN/index.html”, enter “http://a.b.c.d/HELP/”.
 - ⑤ Click **[Apply]**.
If a warning message appears, select to continue configuration.
- 



Changing Names and Comments

You can change printer names and attach comments to help identify printers listed on SmartNetMonitor for Admin.

SmartNetMonitor for Admin allows you to change names and comments when TCP/IP is available.

The following utilities are used to change printer names and comments:

Note

- Each of the names, in TCP/IP form (printer name) and NetBEUI form, is changed individually. Comments are, however, common to both protocols.
- The default name consists of “RNP” and the last 3 bytes of the MAC address on the network interface board. For example, if the MAC address is 00:00:74:62:7D:D5, the default name is “RNP627DD5”. Comments are not configured.

1 Start the Web browser.

2 Enter the address “[`http://\(IP address of the printer for which you want to change settings\)`](http://(IP address of the printer for which you want to change settings))”.

The status of the selected printer is displayed on the Web browser.

3 Click [Configuration].

A dialog box that prompts you to enter the user name and a password appears.

4 Enter the user name and the password, and then click [OK].

Enter only the password in this dialog box. The default password is “password”.

5 Change names and comments.

TCP/IP

- ❶ Click the **[General]** tab, and then enter the name in the **[Printer Name]** box and comment in the **[Comment]** box.
 - In the **[Printer Name]** box, enter the name of the printer using up to 13 characters. The default name consists of “RNP” and the last 3 bytes of the MAC address on the network interface board. For example, if the MAC address is 00:00:74:62:7D:D5, the default name is “RNP627DD5”. Nine character names are not permitted if the prefix is “RNP”. Also, if DHCP is selected as an IP address setting, the number of characters is limited to using up to 13.
 - In the **[Comment]** box, enter a printer comment using up to 31 characters.
- ❷ Click the **[IEEE 1394]**, and then enter the name in the **[Device Name:]** box when you change the device name for **IEEE 1394 (IP over 1394)** interface.
 - In the **[Device Name:]** box, enter the name of the printer using up to 13 characters. The default name consists of “RNP” and the last 5 bytes of the EUI-64 on the IEEE 1394 (IP over 1394) interface. For example, if the EUI-64 is 00:00:74:00:02:01:0A:66, the default name is “RNP0002010A66”. 13 character names are not permitted if the prefix is “RNP”.

NetBEUI

- ❶ Click **[NetBEUI]**.
- ❷ Enter the name in the **[Computer Name]** box and comment in the **[Comment]** box.
 - In the **[Computer Name]** box, enter a name to help identify the printers using NetBEUI. The default name consists of “RNP” and the last 3 bytes of the MAC address on the network interface board. For example, if the MAC address is 00:00:74:62:7D:D5, the default name is “RNP627DD5”. A maximum of 13 characters consisting of uppercase alphabetical letters, numbers, or symbols (except “*+./;<=>?[\\]”, and space) can be used. No name is permitted if the prefix is “RNP”. You must avoid using same names on a network.



6 Click [Apply].

The setting is transmitted to the printer.

7 Exit the Web browser.





Displaying Printer Status

You can view the status of printers using Web browser.

- 1 Start the Web browser.**
- 2 Enter the address “http://(IP address of the printer whose status you want to view)”.**
The status of the selected printer is displayed on the Web browser.
- 3 Click [Status] to check the status of the printer.**

 **Note**

- For more information about each item, see Help.



10. Making Printer Settings Using the Control Panel 226

Menu Chart

This section describes changing the printer's default settings and provides information about the parameters included in each menu.

Category	Function menu
Paper Input, see p.231 “Paper Input Menu”	Bypass Paper Size
List/Test Print, see p.235 “List/Test Print Menu”	Config. Page
	Menu List
	Color Demo Page
	PS Config. Page
	PCL Config. Page
Maintenance, see p.240 “Maintenance Menu”	Hex Dump
	Image Density
	4 Colour Graphic Mode
	Menu Protect



Category	Function menu
System, see p.243 “System Menu”	Misfeed Recovery
	Print Error Report
	Auto Continue
	Memory Overflow
	Copies
	Printer Language
	Sub Paper Size
	Page Size
	Duplex ^{*1}
	Job Separation
	B&W Page Detect
	Letterhead Setting
Host Interface, see p.250 “Host Interface Menu”	I/O Buffer
	I/O Timeout



Category	Function menu
PCL/PS Menu, see p.252 “PCL/PS Menu”	Orientation
	Form Lines
	Font Source
	Font Number
	Point Size
	Font Pitch
	Symbol Set
	Extend A4 Width
	Append CR to LF
	Courier Font
	Resolution

*1 The Duplex menu appears only when the optional duplex unit is installed.



Accessing the Printer Features

- 1** Press the **[User Tools/Counter]** key.
- 2** Press **[Printer Features]**.
- 3** Select the desired item by pressing the tab, and change the settings.

 **Note**

- [OK]** : Press to set the new settings and return to previous menu.
- [Cancel]** : Press to return to previous menu without changing any setting.



Exiting from the Printer Features

1 After changing Printer Features, press **[Exit]** to return to the User Tools/Counter menu.

2 Press **[Exit]**.

 **Note**

- You can also exit from the User Tools/Counter menu by pressing the **[User Tools/Counter]** key.



Paper Input Menu

You can make the following settings from the Paper Input menu:

- Bypass Paper Size



Reference

For more information about loading paper in the tray, see *Maintenance Guide Copier System Edition*.

Paper Input Parameters

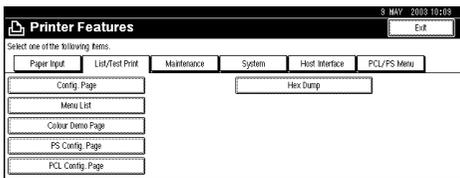
Menu	Description
Bypass Paper Size	<p>The paper size for the bypass tray.</p> <p>For more information about paper sizes that can be set in the bypass tray, see “Paper and Other Media Supported by This Printer”, <i>Maintenance Guide Copier System Edition</i>.</p> <p>11×17 , 8 1/2×14 , 8 1/2×11 , 8 1/2×11 , 5 1/2×8 1/2 , 7 1/4×10 1/2 , 10 1/2×7 1/4 , 8×13 , 8 1/2×13 , 8 1/4×13 , A3  (297×420), B4 JIS  (257×364), A4  (210×297), A4  (297×210), B5 JIS  (182×257), B5 JIS  (257×182), A5  (148×210), A5  (210×148), A6  (105×148), 8K  (267×390), 16K  (195×267), 16K  (267×195), 9 1/2×4 1/8 , 7 1/2×3 7/8 , C5 Env  (229×162), C6 Env  (162×114), DL Env  (220×110), Custom Size</p> <p> Note</p> <p><input type="checkbox"/> Default: A4 (297x210) (Metric version) 8 1/2x11 (Inch version)</p>



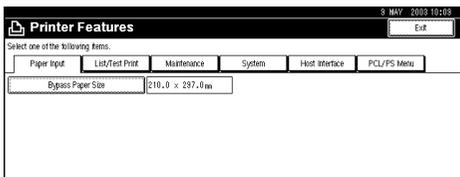
Specifying a custom paper size

To use paper of a custom size, follow the procedure below to specify the custom paper size.

- 1 Press the **[User Tools/Counter]** key.
- 2 Press **[Printer Features]**.
- 3 Press **[Paper Input]**.

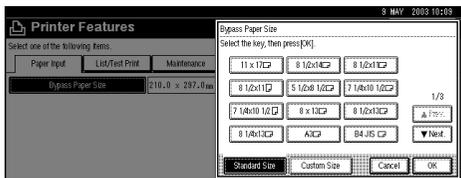


- 4 Press **[Bypass Paper Size]**.



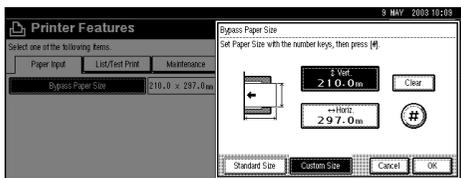


5 Press [Custom Size].



6 Enter the paper size.

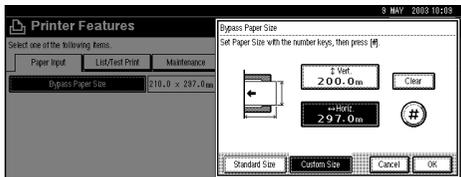
1 Enter the vertical size of the paper in [Vert.] with number key, and then press [#].



Note

- When [Horiz.] is highlighted, press [Vert.] to highlight [Vert.] and then you can enter the value.
- If you want to clear the displayed value, press [Clear].

2 Enter the horizontal size of the paper in [Horiz.] with number key, and then press [#].

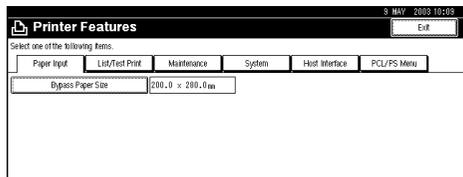


Note

- When [Vert.] is highlighted, press [Horiz.] to highlight [Horiz.] and then you can enter the value.

**3** Press [OK].

The set paper size is displayed.

**7** Press the [User Tools/Counter] key.

The initial display appears.



List/Test Print Menu

You can make the following settings from the List/Test Print menu:

- Config. Page
- Menu List
- Color Demo Page
- PS Config. Page
- PCL Config. Page
- Hex Dump

List/Test Print Parameters

Menu	Description
Config. Page	You can print the printer's current configuration. See p.236 "Printing a Configuration Page" .
Menu List	You can print the Menu List which shows the function menus of this printer.
Color Demo Page	You can print the Color Demo Page.
PS Config. Page	You can print a list of installed PS Fonts.
PCL Config. Page	You can print the PCL's current configuration.
Hex Dump	You can switch the Hex Dump.

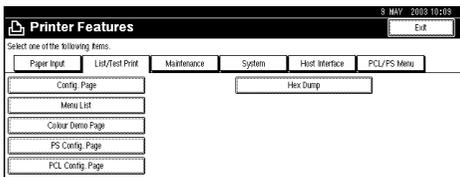


Printing a Configuration Page

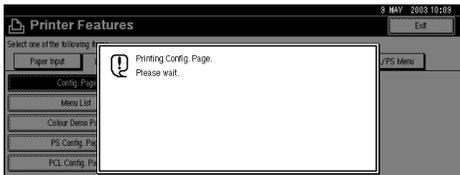
Reference

For more information, see [p.237 “Interpreting the Configuration Page”](#).

- 1** Press the **[User Tools/Counter]** key.
- 2** Press **[Printer Features]**.
- 3** Press **[Config. Page]**.



In a short time, the printing a configuration page will start.





Interpreting the Configuration Page

System Reference

❖ Unit Number

Displays the unit number assigned to the board.

❖ Total Memory

Displays the total amount of memory (SDRAM) installed on the printer.

❖ Firmware Version

- Firmware
Displays the printer controller firmware version number.
- System
Displays the system firmware version number.
- Engine
Displays the printer engine firmware version number.
- NCS
Displays the network interface firmware version number.

❖ Controller Option

The item(s) appears when the controller option(s) is installed.

❖ Printer Language

Displays the printer language version number.





❖ **Options**

Displays the options installed.

❖ **Consumption Status**

Displays how much of each toner is left.

Paper Input

Displays the settings made under the Paper Input menu.

 **Reference**

For more information, see [p.231 “Paper Input Menu”](#).

Maintenance

Displays the settings made under the Maintenance menu.

 **Reference**

For more information, see [p.240 “Maintenance Menu”](#).

System

Displays the settings made under the System menu.

 **Reference**

For more information, see [p.243 “System Menu”](#).





PCL/PS Menu

Displays the settings made under the PCL/PS Menu.

Reference

For more information, see [p.252 “PCL/PS Menu”](#).

Host Interface

Displays the settings made under the Host Interface menu.

When DHCP is active on the network, the actual IP address, subnet mask, and gateway address appear in parentheses on the configuration page.

Reference

For more information about the Host Interface menu, see [p.250 “Host Interface Menu”](#).

Interface Information

Displays the interface information.

Error Log

Displays the printer error log.



Maintenance Menu

You can make the following settings from the Maintenance menu:

- Image Density
- 4 Colour Graphic Mode
- Menu Protect

Maintenance Menu Parameters

Menu	Description
Image Density	❖ Black, Cyan, Magenta, Yellow You can specify image density for each color in the range of -3 to +3.
4 Colour Graphic Mode	This setting adjusts how much each toner color overlaps when printing. If characters or lines are blurred, selecting [Text Priority] may make them clearer. Select [Photo Priority] for normal use.  Note <input type="checkbox"/> Default: <i>Photo Priority</i>

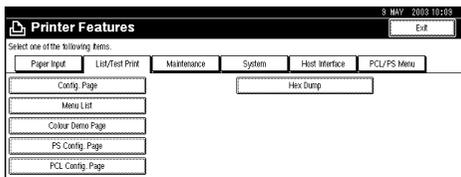


Menu	Description
Menu Protect	<p>This procedure lets you protect menu settings against accidental changes. It makes it impossible to change menu settings made by normal procedure unless you perform the required key operation. In a network environment, protecting settings makes changing menu settings a network administrator task.</p> <ul style="list-style-type: none">• Level 1• Level 2• Off <p> Note</p> <ul style="list-style-type: none"><input type="checkbox"/> Default: <i>Off</i><input type="checkbox"/> You can protect the Maintenance, System , Host Interface and PCL/PS menu on Level 1.<input type="checkbox"/> You can protect the Paper Input, Maintenance, System , Host Interface and PCL/PS menu on Level 2.

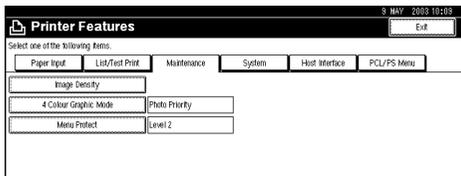


Changing the Maintenance Menu

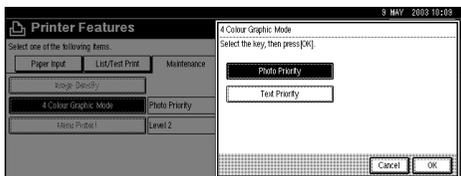
- 1 Press the [User Tools/Counter] key.
- 2 Press [Printer Features].
- 3 Press [Maintenance].



- 4 Press [4 Color Graphic Mode].



- 5 Select item that you want to specify, and then press [OK].





System Menu

You can make the following settings from the System menu:

- Misfeed Recovery
- Print Error Report
- Auto Continue
- Memory Overflow
- Copies
- Printer Language
- Sub Paper Size
- Page Size
- Duplex
- Job Separation
- B&W Page Detect
- Letterhead Setting



System Parameters

Menu	Description
Misfeed Recovery	<p>You can have Misfeed Recovery enabled. When it is on, printing restarts after the misfed paper has been cleared.</p> <ul style="list-style-type: none">• On• Off <p> Note</p> <p><input type="checkbox"/> Default: <i>On</i></p>
Print Error Report	<p>You can have an error report printed when a printer error or memory error occurs.</p> <ul style="list-style-type: none">• On• Off <p> Note</p> <p><input type="checkbox"/> Default: <i>Off</i></p>



Menu	Description
Auto Continue	<p>You can have Auto Continue enabled. When it is on, printing continues after a system error occurs.</p> <ul style="list-style-type: none">• Off• 0 minute• 1 minute• 5 minutes• 10 minutes• 15 minutes <p> Note</p> <ul style="list-style-type: none"><input type="checkbox"/> Default: <i>Off</i><input type="checkbox"/> When it is on, and certain types of error occur, the current job might be canceled, and the machine automatically resumes the next job.
Memory Overflow	<p>You can have memory overflow error reports printed.</p> <ul style="list-style-type: none">• Not Print• Error Report <p> Note</p> <ul style="list-style-type: none"><input type="checkbox"/> Default: <i>Not Print</i>
Copies	<p>You can specify how many pages to print.</p> <p>This setting is disabled if the number of pages to print is already specified with the printer driver or a command.</p> <ul style="list-style-type: none">• 1-999



Menu	Description
Printer Language	<p>You can specify the printer language.</p> <ul style="list-style-type: none">• Auto• PCL• PS <p> Note</p> <p><input type="checkbox"/> Default: <i>Auto</i></p>
Sub Paper Size	<p>You can enable the Sub Paper Size feature. When you select “Auto”, the printer substitutes paper of a certain size as an alternative if the currently specified paper is not loaded. If you select “Off”, the printer uses the paper in the current specified paper input tray regardless of its size.</p> <ul style="list-style-type: none">• Auto• Off <p> Note</p> <p><input type="checkbox"/> Default: <i>Off</i></p>
Page Size	<p>You can specify the default paper size.</p> <p>11 x 17, 8 1/2 x 14, 8 1/2 x 11, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, B4JIS, A4, B5JIS, A5, A6, 8K, 16K, 4 1/8 x 9 1/2, 3 7/8 x 7 1/2, C5 Env(162x229), C6 Env(114x162), DL Env(110x220), Custom Size</p> <p> Note</p> <p><input type="checkbox"/> Default: A4 (297x210) (Metric version) 8 1/2x11 (Inch version)</p>



Menu	Description
Duplex	<p>You can select to print on both sides of each page.</p> <ul style="list-style-type: none">• Off• Short Edge Bind• Long Edge Bind <p> Note</p> <ul style="list-style-type: none"><input type="checkbox"/> Default: <i>Off</i><input type="checkbox"/> This menu appears only if the optional duplex unit is installed.
Job Separation	<p>You can enable Job Separation.</p> <ul style="list-style-type: none">• Off• On <p> Note</p> <ul style="list-style-type: none"><input type="checkbox"/> Default: <i>Off</i><input type="checkbox"/> This menu appears only when the optional 2 tray finisher is installed.
B&W Page Detect	<p>You can have the Black & White Page Detect feature enabled.</p> <ul style="list-style-type: none">• On• Off <p> Note</p> <ul style="list-style-type: none"><input type="checkbox"/> Default: <i>On</i>



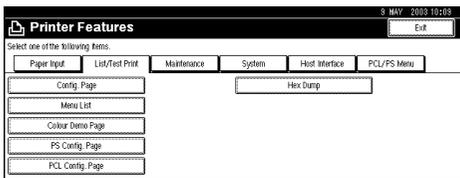
Menu	Description
Letterhead Setting	<p>You can select whether or not to perform letterhead printing. If you select letterhead printing and duplex printing, the last sheet of a print job with an odd number of pages is printed on both sides.</p> <ul style="list-style-type: none">• Off• Auto Detect• On (always) <p> Note</p> <ul style="list-style-type: none"><input type="checkbox"/> Default: <i>Off</i><input type="checkbox"/> Duplex printing is canceled if the paper size does not allow it.<input type="checkbox"/> If printing changes from single-sided to duplex during printing, the second and later copies with collate will all be duplex. If you want the second and later copies to be single-sided, select a paper size that does not allow duplex printing.<input type="checkbox"/> When using letterheads, be careful how you orient the paper.



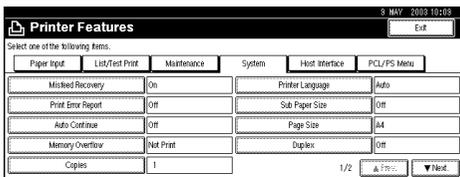
Changing the System Menu

The following example describes how to change the settings for “Misfeed Recovery”.

- 1 Press the [User Tools/Counter] key.
- 2 Press [Printer Features].
- 3 Press [System].



- 4 Press [Misfeed Recovery].



- 5 Select item that you want to specify, and then press [OK].





Host Interface Menu

You can make the following settings from the Host Interface menu:

- I/O Buffer
- I/O Timeout

Host Interface Parameters

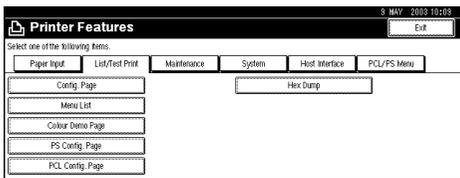
Menu	Description
I/O Buffer	<p>You can set the size of the I/O Buffer. Normally it is not necessary to change this setting.</p> <p>128 KB, 256 KB, 512 KB</p> <p> Note</p> <p><input type="checkbox"/> Default: <i>128 KB</i></p>
I/O Timeout	<p>You can set how many seconds the printer waits before ending a print job. If data from another port often arrives during print jobs, you should increase the timeout period.</p> <p>10 seconds, 15 seconds, 20 seconds, 25 seconds, 60 seconds</p> <p> Note</p> <p><input type="checkbox"/> Default: <i>15 seconds</i></p>



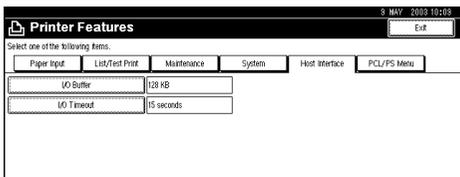
Changing the Host Interface Menu

The following example describes how to change the setting for “I/O Timeout”:

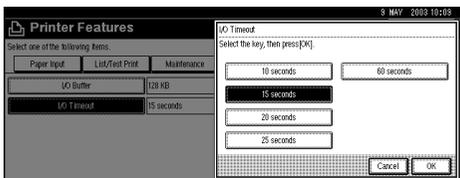
- 1 Press the **[User Tools/Counter]** key.
- 2 Press **[Printer Features]**.
- 3 Press **[Host Interface]**.



- 4 Press **[I/O Timeout]**.



- 5 Select item that you want to specify, and then press **[OK]**.





PCL/PS Menu

You can make the following settings from the “PCL/PS Menu”:

- Orientation
- Form Lines
- Font Source
- Font Number
- Point Size
- Font Pitch
- Symbol Set
- Extend A4 Width
- Append CR to LF
- Courier Font
- Resolution



PCL/PS Parameters

Menu	Description
Orientation	<p>You can set the page orientation.</p> <ul style="list-style-type: none">• Portrait• Landscape <p> Note</p> <p><input type="checkbox"/> Default: <i>Portrait</i></p>
Form Lines	<p>You can set the number of lines per page.</p> <p>5-128</p> <p> Note</p> <p><input type="checkbox"/> Default: 64 (Metric version)</p>
Font Source	<p>You can set the location of the default font.</p> <ul style="list-style-type: none">• Resident <p> Note</p> <p><input type="checkbox"/> Default: <i>Resident</i></p> <p><input type="checkbox"/> When you select “RAM”, you can select only fonts downloaded to the printer RAM.</p> <p><input type="checkbox"/> 1 to n (for Download source)</p>



Menu	Description
Font Number	<p>You can set the ID of the default font you want to use.</p> <ul style="list-style-type: none">• 0 to 50: (for Internal)• 1 to n: (for Download) <p> Note</p> <p><input type="checkbox"/> Default: 0</p>
Point Size	<p>You can set the point size you want to use for the default font. 4 to 999.75 by 0.25</p> <p> Note</p> <p><input type="checkbox"/> Default: <i>12.00 points</i></p> <p><input type="checkbox"/> This setting is effective only for variable-space fonts.</p>
Font Pitch	<p>You can set the number of characters per inch for the default font. 0.44 to 99.99 by 0.01</p> <p> Note</p> <p><input type="checkbox"/> Default: <i>10.00 pitch</i></p> <p><input type="checkbox"/> This setting is effective only for fixed-space fonts.</p>



Menu	Description
Symbol Set	<p>You can specify the set of print characters for the default font. Available options are as follows:</p> <p>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</p> <p> Note</p> <p><input type="checkbox"/> Default: <i>Roman-8</i></p>
Extend A4 Width	<p>You can extend the width of the printable area for an A4 sheet, leaving a narrow margin on the sides.</p> <ul style="list-style-type: none">• On• Off <p> Note</p> <p><input type="checkbox"/> Default: <i>Off</i></p>
Append CR to LF	<p>By adding a CR code to each LF code, you can print text data clearly.</p> <ul style="list-style-type: none">• On• Off <p> Note</p> <p><input type="checkbox"/> Default: <i>Off</i></p>



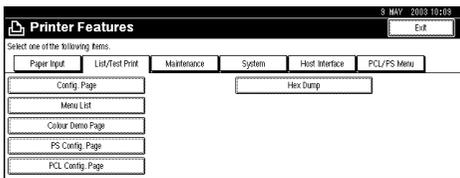
Menu	Description
Courier Font	<p>You can select a courier font type.</p> <ul style="list-style-type: none">• Regular• Dark <p> Note</p> <p><input type="checkbox"/> Default: <i>Regular</i></p>
Resolution	<p>You can set the print resolution in dots per inch.</p> <ul style="list-style-type: none">• 300 dpi• 600 dpi <p> Note</p> <p><input type="checkbox"/> Default: 600 dpi</p>



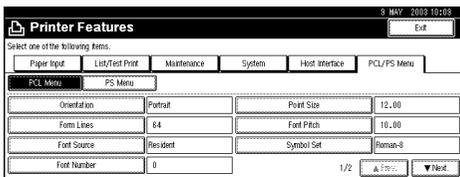
Changing the PCL/PS Menu

The following example describes how to change the setting for “Orientation”:

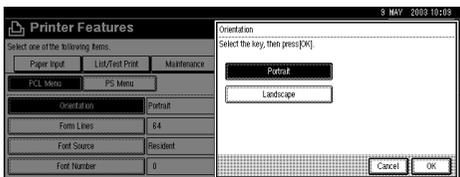
- 1 Press the [User Tools/Counter] key.
- 2 Press [Printer Features].
- 3 Press [PCL/PS Menu].



- 4 Press [Orientation].



- 5 Select item that you want to specify, and then press [OK].



11. Appendix

SNMP

The network interface board functions as SNMP (Simple Network Management Protocol) agent using UDP and IPX protocols. Using the SNMP manager, you can get information about the printer.

The default community names are “public” and “admin”. You can get MIB information using these community names.



Reference

You can configure SNMP from the command line using telnet. See [p.271 “SNMP”](#).

You can configure SNMP from SmartNetMonitor for Admin using NIB Setup Tool. See Help for SmartNetMonitor for Admin.

You can configure SNMP from your Web browser. See Help on the CD-ROM.



Limitation

- The optional 1394 interface unit supports TCP/IP only.
- The kinds of supported MIB differ depending on the printer.

Supported MIBs

- MIB-II
- PrinterMIB
- HostResourceMIB
- RicohPrivateMIB



Spool Printing

With Spool Printing, the entire print job data is saved on the printer hard disk before printing. To use this function, set it from the menu. See [p.243 “System Menu”](#).

Important

- Do not turn off the printer or computer when a print job is being spooled and the **Data In** indicator is blinking. If you do, the print job will remain on the printer hard disk and be printed when the printer is turned on.

Limitation

- Spool Printing does not appear unless the optional printer hard disk is installed.
- Data that has been received in the protocol other than LPD or IPP cannot be spooled.
- Up to 50 jobs (approximately 1000 MB) can be spooled at a time.
- When Spool Printing is on, the size of a single print job cannot exceed 500 MB.
- When sending spooled print jobs from more than one computer at a time, up to five LPR jobs and one IPP job can be spooled. Jobs exceeding the maximum number cannot be spooled. Wait until the number of spooled print jobs falls below maximum.

Note

- When “On” is selected, the first print will take time.

Note

- Spool jobs stored in the machine can be viewed or deleted using a Web browser.



Viewing/Deleting spool jobs in a Web browser

Launch the Web browser and enter the machine's IP address in the address bar. This displays the top page.

Example: `http://192.168.0.10`

(In this example, the IP address of the machine is 192.168.0.10)

Click **[Admin Info]**, and then **[Spool Printing Job List (Printer)]** to display the spool jobs. To delete, check the box next to the name of the file you want to delete. Enter the password ^{*1}, and then click **[Delete]**. For more information, see [p.217 “Configuring the Network Interface Board Settings”](#).

*1 The default password is “password”.



Setting Spool Printing

Spool Printing can be set using telnet or a Web browser.

- Using a Web browser
Click **[Configuration]**, and then **[General]**. Set **[Spool Printing]** to **[Enable]**.
- Using telnet
Enter “spoolsw spool on” to set Spool Printing.



Reference

For more information about how to set up the spool printing, see Help.



Remote Maintenance by telnet

You can view the printer status and configure the network interface board using telnet.

Note

- You should specify a password so only the network administrator, or person with network administrator privileges, can use remote maintenance.

Using telnet

The following is a sample procedure of using telnet:

Limitation

- Only one person at a time can be logged on to do remote maintenance.

1 Use the printer's IP address or host name to start telnet.

```
% telnet IP_address
```

Note

- In order to use the host name instead of IP address, you must write it to the “/etc/hosts” file.

2 Enter the password.

Note

- Default is “password”.

3 Enter a command.

Reference

For more information about telnet commands, see [p.262 “Commands List”](#).





4 Exit telnet.

```
msh> logout
```

When the configuration is changed, a confirmation message appears asking you whether or not the changes should be saved.

5 Enter “yes” to save the changes, and then press **[Enter]**.

If you do not want to save the changes, enter “no”, and then press **[Enter]**. If you want to make additional changes, enter “return” at the command line, and then press **[Enter]**.

Note

- If the “Can not write NVRAM information” message appears, the changes are not saved. Repeat the steps above.
- The network interface board is reset automatically when settings are changed.
- When the network interface board is reset, active point jobs already sent will finish printing. However, jobs not yet sent are canceled.

Commands List

This is a list of commands that can be used via remote maintenance:

Note

- Enter “help” to see a list of commands that can be used.

```
msh> help
```

- Enter “help *command_name*” to display information about the syntax of that command.

```
msh> help command_name
```

TCP/IP address

Use the “ifconfig” command to configure TCP/IP (IP address, subnet mask, broadcast address, default gateway address) for the machine.

❖ Reference

```
msh> ifconfig
```

❖ Configuration

```
msh> ifconfig interface_name parameter address
```

Interface name	Interface to be configured
ether naf0	Ethernet Interface ^{*1}
ip1394 ^{*2} fwip0 ^{*2}	IEEE 1394 Interface
wlan ^{*3} wi0 ^{*3}	IEEE 802.11b Interface

^{*1} If you did not enter the interface name, it will be automatically set to the Ethernet interface.

^{*2} Available when the optional 1394 interface unit is installed.

^{*3} You can specify an interface when installing the optional 802.11b interface unit.

Parameter	Meaning
(no parameter)	IP address
netmask	Subnet mask
broadcast	Broadcast address

❖ Changing the Interface

You can specify either the LAN interface or IEEE 802.11b interface when using the optional 802.11b interface unit.

```
msh> ifconfig interface up
```

Note

- You cannot specify the IEEE 1394 interface.

The following is an example of configuring an IP address of 192.168.15.16 on the Ethernet interface:

```
msh> ifconfig ether 192.168.15.16
```

The following is an example of configuring a subnet mask of 255.255.255.0 on the Ethernet interface:

```
msh> ifconfig ether netmask 255.255.255.0
```

Note

- This affects the configuration of the network interface board with the IP address used.
- The TCP/IP setting is the same as that for the LAN interface and IEEE 802.11b interface.
- To enter an address using hexadecimal, prefix it with “0x”.

 **Address****❖ Subnet Mask**

A number used to numerically “mask” or hide the IP address by eliminating those parts of the address that are alike for all the machines on a particular network.

 **Note**

- To get the above addresses, consult your network administrator.
- The subnet mask is the same as that for the LAN interface and IEEE 802.11b interface.
- When installing the optional 1394 interface unit, set the subnet so that it does not overlap with the LAN interface or the IEEE 1394 interface.



Access Control

Use the “access” command to view and configure access control. You can also specify two or more access ranges.

❖ Reference

```
msh> access
```

❖ Configuration

```
msh> access ☆ range start-address end-address
```

- ☆ represents a target number between 1 and 5. (Up to five access ranges can be registered and selected.)

Example: To specify accessible IP addresses between 192.168.0.10 and 192.168.0.20:

```
msh> access 1 range 192.168.0.10 192.168.0.20
```

Note

- The access range restricts workstations from which printing is possible by address. If you do not need to restrict printing, make the setting “0.0.0.0”.
- The entry is invalid if the start address is greater than the end address.
- Up to five access ranges can be specified. The entry is invalid if the target number is omitted.
- When using a Web browser, telnet or SmartNetMonitor for Client/Admin, you can use an IP address that has not been restricted by access control.

❖ Access Control Initialization

```
msh> access flush
```

Note

- This restores the default settings so that all access ranges become “0.0.0.0”.
- 



Protocol

Use the “set” command to allow/prevent remote access for each protocol:

```
msh> set protocol {up | down}
```

Protocol	
appletalk	“up” means active and “down” means inactive.
tcpip	
netware	
netbeui	
lpr	
ftp	
rsh	
diprint	
web	
snmp	
ipp	
dhcp	
wins	
autonet	
scsiprint * ¹	
ip1394 * ¹	

*¹ Available when the optional 1394 interface unit is installed.

 **Note**

- If you prohibit remote access using TCP/IP and then log out, you cannot use remote access. If this was a mistake, you can use the control panel to allow access by TCP/IP.
- When you prevent access via TCP/IP, you are also prevented from using “ip1394”, “lpr”, “ftp”, “rsh”, “diprint”, “web”, “snmp”, and “ipp”.

DHCP

Use the “set” command to configure the boot method:

```
msh> set dhcp {on|off}
```

(“on” means active and “off” means inactive.)

Parameter	Meaning
dhcp	DHCP (Dynamic Host Configuration Protocol)

 **Note**

- The default is “on”.
- When you are using DHCP, the server also needs to be configured.
- DHCP takes precedence over all other settings.



Printer status

The following commands can be used to get information about the current status of the printer:

msh> *command*

Command	Information that is displayed
status	Status of printer. Information about the print jobs.
info	Information about the paper tray, output tray, and printer language.
prnlog [ID]	Lists the last 16 print jobs.

Note

- More information about a print job is displayed when the ID number is added after the prnlog command.

Reference

For more information about the meaning of data that is returned with these commands, see [p.297](#) “Understanding the Displayed Information”.



Network interface board configuration settings information

Use the “show” command to display the network interface board configuration settings.

```
msh> show [-p]
```

Note

- Add “-p” to the show command to have information displayed on screen at one time.

Reference

For more information about the meaning of data that is returned with this command, see [p.299 “Configuring the Network Interface Board”](#).

System log information

Use the “syslog” command to display information stored in the printer's system log.

```
msh> syslog
```

Reference

For more information about the displayed information, see [p.304 “System Log Information”](#).



SNMP

Use the “snmp” command to display and edit SNMP configuration settings such as the community name.

Note

- You can configure the ten SNMP access settings numbered 1–10.
- Default access settings 1 and 2 are as follows:

Number	1	2
Community name	public	admin
IP address	0.0.0.0	0.0.0.0
Access type	read-only trap off	read-write trap off

❖ Display

Displays SNMP information and available protocols.

```
msh> snmp ?
```

```
msh> snmp [-p] [registered_number]
```

Note

- If the -p option is added, you can view the settings one by one.
- Omitting the number displays all access settings.

❖ Community name configuration

You can set the community name of the network interface board.

```
msh> snmp number name community_name
```

Note

- ❑ The community name can be a maximum of 15 characters.

❖ Access type configuration

You can select the access type from these listed below:

```
msh> snmp number type access_type
```

Access type	Type of access which is permitted
read	Read only
write	Read and write
trap	User is notified of trap messages.
no	All access is denied.

❖ Protocol configuration

You should use the following command to set the protocols to active or inactive: (If you set a protocol to inactive, all access settings set to use that protocol are disabled.)

```
msh> snmp {ip | ipx} {on | off}
```

- “on” means active and “off” means inactive.

To change the protocol of access settings, use the following command: (However, if you disabled a protocol with the above command, making it active here will have no effect.)

```
msh> snmp number active {ip | ipx} {on | off}
```

❖ Access configuration

You can configure a host is address based on the protocols used.

The network interface board accepts requests only from hosts with addresses of access type “read-only” or “read-write”. Enter “0” to have network interface board accept requests from any host without requiring a specific access type.

Command syntax:

```
msh> snmp number {ip | ipx} address
```

Note

- To specify TCP/IP, enter “ip” followed by a space, and then the IP address.
- To specify IPX/SPX, enter “ipx” followed by a space, then the IPX address followed by a decimal, and then the MAC address of the network interface board.

The following is an example of how to configure registration number 3 with the IP address 192.168.15.16:

```
msh> snmp 3 ip 192.168.15.16
```

The following is an example of how to configure registration number 3 with the IPX address 7390A448, and the MAC address 00:00:74:62:5C:65:

```
msh> snmp 3 ipx 7390A448:000074625C65
```

IPP

Use the “ipp” command to configure IPP settings.

❖ Viewing setting

The following command displays the current IPP settings:

```
msh> ipp
```

Example output:

```
timeout=900 (sec)
```

```
auth basic
```

- The “timeout” setting specifies how many seconds the computer keeps trying to access the network printer to send print jobs when no connection can be made.
- The “auth” setting indicates the user authorization mode.

❖ IPP timeout configuration

Specifies how many seconds to wait before canceling a print job if it has been interrupted for some reason. The range of time can be changed between 30 to 65,535 seconds.

```
msh> ipp timeout {30 -65535}
```

❖ IPP user authorization configuration

Use IPP user authorization to restrict users to print with IPP. Default is “off”.

```
msh> ipp auth {basic|digest|off}
```

- The settings of user authorization are “basic” and “digest”.
- Use “off” to remove a user's authorization.

Note

- ❑ If you select “basic” or “digest”, see the next section “Configuring IPP user authorization” for more information about how to configure the user name.



❖ Configuring IPP user authorization

Use the following command:

```
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.
```

SPRINT

To make setting for IEEE 1394 (SCSI print), use the “sprint” command.

❖ View settings

The IEEE 1394 (SCSI print) settings are displayed.

```
msh> sprint
```

❖ Bidirectional configuration for the IEEE 1394 (SCSI print)

Use this setting to set the IEEE 1394 (SCSI print) to bidirectional.

Default is “on”.

```
msh> sprint bidi [on/off]
```



Direct Printing Port

The direct printing port allows printing direct from a computer, connected to the network, to the printer. Use the “diprint” command to change the direct printing port settings.

❖ View settings

The following command displays the current direct printing port settings:

```
msh> diprint
```

Example output:

```
port 9100  
timeout=300 (sec)  
bidirect off
```

- The “port” specifies the port number of the direct printing port.
- The “bidirect” setting indicates whether the direct printing port is bidirectional.

❖ Setting timeout

You can specify the timeout interval to use when receiving data from the network.

```
msh> diprint [30~65535]
```

Note

- Default is 300 seconds.
- If 0 is set, timeout is disabled.

❖ Bidirectional configuration for the direct printing port

Use this setting to configure whether the direct printing port is bidirectional. Default is “off”.

```
msh> diprint bidirect {on|off}
```



SMB

Use the “smb” command to configure or delete the computer name or workgroup name for NetBEUI.

msh> smb *parameter*

Parameter	Settings
smb comp	Your computer name, consisting of up to 13 characters
smb group	Workgroup name, consisting of up to 15 characters
smb comment	Comment, consisting of up to 31 characters
smb clear comp	Clears the complete name
smb clear group	Clears Workgroup name
smb clear comment	Clears comment

web

Use the “web” command to display and configure the parameters on the Web browser.

❖ View Settings

msh> web

❖ URL Configuration

The link address reached by pressing **[URL]** on the Web browser can be set.

web url *The URL or IP address you want to register.*

Example:

(Xs represent the IP address)

msh> web url http://XXX.XXX.XXX.XXX/





❖ Link Name Configuration

You can enter the name for **[URL]** that appears on the Web browser.

```
msh> web name Name you want to display
```

Example:

(The Xs represent the name you want to display)

```
msh> web name XXX
```

❖ Help URL Configuration

The link address reached by pressing **[Help]** or “?” on the Web browser can be set.

```
msh> web help Help URL or IP address
```

Example:

(Xs represent the IP address)

```
msh> web url http://XXX.XXX.XXX.XXX/help/
```



ROUTE

Use the “route” command to control the routing table.

This command allows you to configure and display routing information. You can change the network configuration from a remote computer using this command.

 **Note**

- ❑ The maximum number of routing tables are 16.

Parameter	Topics of setting
route add {host net} destination gateway	Adds a host/network route to “destination”, and a gateway address to “gateway” in the table. Host becomes the default setting.
route delete {host net} destination	Deletes a host/network route from the table. Host becomes the default setting.
route get {destination}	Displays only route information corresponding to a specified destination. When the destination is unspecified, all routing information is displayed.
route active {host net} destination * ¹ on/off	You can turn the specified destination on or off. Host becomes the default setting.
route add default gateway * ¹	You can set the default gateway address.
route flush	Deletes all routing information.

*¹ IP address

SLP

Use this command to configure SLP settings.

You can search the NetWare server using SLP in the Pure IP environment of NetWare 5/5.1, 6. Using the “slp” command, you can configure the value of TTL which can be used by SLP multi-cast-packet.

Note

- The default value of TTL is “1”. A search is executed only using up to a local segment. If the router does not support multi-cast, the settings are not available even if the TTL value is increased.
- The acceptable TTL value is 1 - 255.

```
msh> slp ttl {1 -255}
```

Setting IEEE 802.11b

To make setting for IEEE 802.11b, use the “wiconfig” command.

Limitation

- You can make settings when installing the optional 802.11b interface unit.

View settings

The following command displays the current IEEE 802.11b settings:

```
msh> wiconfig
```

The IEEE 802.11b card information is displayed.

```
msh> wiconfig cardinfo
```

Note

- If the IEEE 802.11b interface is not working correctly, IEEE 802.11b card information is not displayed.

❖ Configuration

msh> wiconfig parameter

Parameter	Value to be configured
mode [ap adhoc 802.11adhoc]	You can set infrastructure mode (ap), 802.11 ad hoc mode (802.11adhoc) or ad hoc mode (adhoc). The default is ad hoc mode.
ssid <i>ID value</i>	You can make settings for SSID in infrastructure mode. The characters that can be used are ASCII 0x20-0x7e (32 bytes). An SSID value is automatically set to the nearest access point if the setting has not been made. If the setting has not been made for ad hoc mode, the same value as for infrastructure mode or an “ASSID” value is set automatically if the setting has not been made.
channel frequency <i>channel no.</i>	You can set the channel. You can select from the following channels: <ul style="list-style-type: none"> • Metric Version :1-13 • Inch Version :1-11 Set the same channel for all the machines you are using.
enc [on off]	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.

Parameter	Value to be configured
key [<i>key value</i>]	With 64-bit WEP, you can use 10 digit hexadecimal. With 128-bit WEP, you can use 26 digit hexadecimal. To use this function, set the same WEP key for all ports that transmit to each other.
auth [open shared]	You can set the authorized mode when using WEP. The specified value and authorized mode are as follows: open: Open system authorized (default) shared: Shared key authorized
rate [auto 11m 5.5m 2m 1m]	You can set the IEEE 802.11b transmitting speed. The transmitting speed you specify here is the speed at which data is sent. You can receive data at any speed. auto: automatically set (default) 11m: 11 Mbps fixed 5.5m: 5.5 Mbps fixed 2m: 2 Mbps fixed 1m: 1 Mbps fixed



Spool Job

Use the “spoolsw” command to configure the Job Spool settings. Spool printing supports the “lpr” and “ipp” protocols.

❖ View Setting

The Job Spool settings appear.

```
msh> spoolsw
```

❖ Configuration

Select **[on]** to enable Job Spool, or **[off]** to disable it.

```
msh> spoolsw spool {on|off}
```

❖ Clearing a Spool Job

If the printer gets turned off accidentally during a spool job, you can have the job reprinted when it is turned back on.

```
msh> spoolsw clearjob {on|off}
```

❖ Protocol configuration

To change the protocol settings, use the following command. You can specify the settings for “lpr” or “ipp”.

```
lpr msh> spoolsw lpr {on|off}
```

```
ipp msh> spoolsw ipp {on|off}
```

WINS

Use the “wins” command to configure the WINS server settings.

For more information about WINS server settings, see p.318 “Configuring a WINS Server”.

❖ Configuration

Use the set command to make WINS active or inactive.

```
msh> set wins {on|off}
```

- “on” means active and “off” means inactive.

❖ Viewing setting

The following command displays the WINS server IP address:

```
msh> wins
```

Example out put:

```
wins: primary server 0.0.0.0 secondary server 0.0.0.0
```

```
DHCP current config:
```

```
primary server 192.168.10.1 secondary server 192.168.10. 2
```

```
hostname RNP620B47 ScopeID
```

Note

- If DHCP is used to start from the network, the current WINS server address is displayed. This address, however, is not displayed if DHCP is not used.
- If the IP address obtained from DHCP differs from the WINS IP address, the DHCP address is the valid address.

❖ Address configuration

Use this command to configure a WINS server IP address:

```
msh> wins {primary|secondary} IP_address
```

 **Note**

- Use the “primary” to configure a primary WINS server IP address.
- Use the “secondary” to configure a secondary WINS server IP address.

AutoNet

Use the “set” command to configure AutoNet.

 **Note**

- For more information about AutoNet, see [p.318 “Using AutoNet”](#).

```
msh> set autonet {on|off}
```

Select “on” to activate AutoNet, and “off” to deactivate it.

Changing the Host Name

Use the “hostname” command to change the printer name.

```
msh> hostname [interface_name ] printer_name
```

Interface name	Interface to be configured
ether	Ethernet interface ^{*1}
wlan ^{*2}	IEEE 802.11b interface
ip1394 ^{*3}	IEEE 1394 interface

^{*1} If you did not enter the interface name, it will be automatically set to the Ethernet interface.

^{*2} If you install the optional 802.11b interface unit, you can set the command.

^{*3} If you install the optional 1394 interface unit, you can set the command.

 **Note**

- Enter the printer name using up to 13 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.

Changing the Password

Use the “passwd” command to change the remote maintenance password.

 **Important**

- Be sure not to forget or lose the password.

 **Note**

- The default password is “password”.

1 Enter “passwd”.

```
msh> passwd
```

2 Enter the current password.

```
Old password:
```

3 Enter the new password.

```
New password:
```

 **Note**

- The password must consist of three to eight alphanumeric characters and symbols. Upper and lower case characters are differentiated. For example, “R” is different from “r”.
- The password is the same as that used in the configuration of the network interface board using a Web browser and that used in NIB Setup Tool. If you change a password with telnet, other passwords are also changed.



4 Enter the new password once again.

Retype new password:



Getting Printer Information over the Network

Printer current status

You can check the printer's status using the “telnet” command.

❖ telnet

Use the “status” command.

Message	Description
Calibrating	The printer is calibrating, or the photoconductor unit is being supplied.
Call Service Center	There is a malfunction in the printer.
Duplex Cover Open	The optional duplex unit cover is open.
Empty: Black Toner	The toner cartridge is almost empty.
Empty: Cyan Toner	The toner cartridge is almost empty.
Empty: Magenta Toner	The toner cartridge is almost empty.
Empty: Yellow Toner	The toner cartridge is almost empty.
Energy Saver Mode	The printer is in Energy Saver Mode.
Error: DIMM	An error has occurred in the optional DIMM.
Error: Ethernet	An error has occurred in the Ethernet interface.
Error: Finisher	An error has occurred in the optional finisher.
Error: HDD	An error has occurred in the optional Printer Hard Disk.
Error: IEEE1394	An error has occurred in the IEEE 1394 interface.
Error: NVRAM	An error has occurred in the optional account enhance unit.



Message	Description
Error: Optional RAM	An error has occurred in the optional memory unit.
Error: Parallel I/F	An error has occurred in the parallel interface.
Error: Stapler	There is paper left in the 2 tray finisher, or an error has occurred in the stapler.
Error: Tray 1	An error has occurred in the tray 1.
Error: Tray 2	An error has occurred in the tray 2.
Error: Tray 3	An error has occurred in the tray 3.
Error: Tray 4	An error has occurred in the tray 4.
Error: USB I/F	An error has occurred in the USB interface.
Error: Wireless Card	An error has occurred in the IEEE 802. 11b (Wireless LAN) card.
Error: Wireless Card or Board	An error has occurred in the IEEE 802. 11b (Wireless LAN) interface.
Finisher 1 Full	Output tray 1 of the optional Finisher is full.
Finisher 2 Full	Output tray 2 of the optional Finisher is full.
Finisher Cover Open	The finisher cover is open.
Front Cover Open	The front cover is open.
Loading Toner	Toner is being supplied.
Low: Black Toner	The toner cartridge is not set correctly, or toner is almost running out.
Low: Cyan Toner	The toner cartridge is not set correctly, or toner is almost running out.
Low: Magenta Toner	The toner cartridge is not set correctly, or toner is almost running out.
Low: Staples	The staple is not set correctly, or staple is almost running out.
Low: Yellow Toner	The toner cartridge is not set correctly, or toner is almost running out.



Message	Description
Lower R Cover Open	The lower R cover is open.
Mailbox 1 Full	Output tray 1 of the optional Mailbox is full.
Mailbox 2 Full	Output tray 2 of the optional Mailbox is full.
Mailbox 3 Full	Output tray 3 of the optional Mailbox is full.
Mailbox 4 Full	Output tray 4 of the optional Mailbox is full.
Mailbox Cover Open	The mailbox cover is open.
Misfeed: Duplex Feed	Paper is jammed in the duplex paper.
Misfeed: Duplex Unit	There is misfeed in the Duplex Unit.
Misfeed: Finisher	There is paper in the optional Finisher.
Misfeed: Fusing Unit	Paper is jammed in the fusing unit.
Misfeed: Input Tray	feed unit.
Misfeed: Mailbox	There is misfeed in the Mailbox.
No Input Tray	There is no paper in the paper tray.
No Paper	There is no paper.
Output Tray Full	All output trays are full.
Paper in Finisher	There is paper left in the finisher.
Paper Type Mismatch	The paper type setting of the tray differs from that of the actual type in the tray.
Punch Full	Punch Chip receptacle of the 2 tray finisher is full.
Ready	The printer is ready to use.



Message	Description
Replace Develop. C	It is time to replace the color development unit.
Replace Develop. K	It is time to replace the black development unit.
Replace Feed Roller	It is time to replace the feed roller.
Replace Fuser Oil	It is time to replace the fuser oil unit.
Replace Fusing Unit	It is time to replace the fusing unit.
Replace PCU Black	It is time to replace the black PCU.
Replace PCU Color	It is time to replace the color PCU.
Replace Trans. Unit	It is time to replace the transfer unit.
Reset Black Toner	The toner cartridge is not set correctly.
Reset Cyan Toner	The toner cartridge is not set correctly.
Reset Develop. C	The indicated development unit(s) is/are not set correctly, or is not set.
Reset Develop. K	The indicated development unit(s) is/are not set correctly, or is not set.
Reset Develop. M	The indicated development unit(s) is/are not set correctly, or is not set.
Reset Develop. Y	The indicated development unit(s) is/are not set correctly, or is not set.
Reset Duplex Feed	The duplex paper feed unit is not set correctly, or is not set.
Reset Finisher	Finisher is not set correctly, or is not set.
Reset Fuser Oil	The fuser oil unit is not set correctly, or is not set.
Reset Fusing Unit	The fusing unit is not set correctly, or is not set, or your fusing unit is improper.
Reset Magenta Toner	The toner cartridge is not set correctly.



Message	Description
Reset PCU C	The indicated PCU(s) is/are not set correctly, or is not set.
Reset PCU K	The indicated PCU(s) is/are not set correctly, or is not set.
Reset PCU M	The indicated PCU(s) is/are not set correctly, or is not set.
Reset PCU Y	The indicated PCU(s) is/are not set correctly, or is not set.
Reset Transfer Unit	The transfer unit is not set correctly, or is not set.
Reset Waste Oil	The waste oil bottle is not set correctly, or is not set.
Reset Waste Toner	The waste toner is not set correctly, or is not set.
Reset Yellow Toner	The toner cartridge is not set correctly.
Right Cover Open	The right cover is open.
Size Mismatch	The paper size setting of the tray differs from that of the actual size in the tray.
Size/Type Mismatch	The paper type setting of the tray differs from that of the actual type in the tray.
Standard Tray Full	The standard tray is full.
Toner Nearly Full	The waste toner is almost full.
Upper L Cover Open	The upper L cover is open.
Upper R Cover Open	The upper R cover is open.
Warming Up	The printer is warming up.
Waste Oil Full	The waste oil is full.
Waste Oil Nearly Full	The waste oil is almost full.
Waste Toner Full	The waste toner is full.



Printer configuration

You can check the printer configuration using telnet.

❖ telnet

Use the “info” command.

Note

- “*” (asterisk) is displayed with the current setting.
- Regarding *1 - *5, see the following table.

Item	Description
Input Tray No. Name PaperSize Status	ID number of the paper tray Name of the paper tray* ¹ Paper size loaded in the paper tray* ² Current status of the paper tray* ³
Output Tray No. Name Status	ID number of the output tray Name of the output tray* ⁴ Current status of the output tray* ⁵
Printer Language No. Name Version	ID number of the printer language used by the printer Name of the printer language used by the printer Version of the printer language



❖ *1 Input Tray: Name

Name	Description
Tray X	Name of installed paper tray (X is the number of tray.)
Tray3 (LCT)	Tray3 (LCT)
Bypass Tray	Bypass Tray

❖ *2 Input Tray: PaperSize

Paper size	Description
A3 (297 × 420 mm)	A3 (297 × 420)
B4JIS (257 × 364 mm)	B4 (257 × 364)
A4 (297 × 210 mm)	A4 (297 × 210)
A4 (210 × 297 mm)	A4 (210 × 297)
B5JIS (257 × 182 mm)	B5 (257 × 182)
B5JIS (182 × 257 mm)	B5 (182 × 257)
A5 (210 × 148 mm)	A5 (210 × 148)
A5 (148 × 210 mm)	A5 (148 × 210)
A6 (105 × 148 mm)	A6 (105 × 148)
11 × 17	DL (11 × 17)
8 1/2 × 14	LG (8 1/2 × 14)
11 × 8 1/2	LT (11 × 8 1/2)
8 1/2 × 11	LT (8 1/2 × 11)



Paper size	Description
5 1/2 × 8 1/2	HL (5 1/2 × 8 1/2)
Custom (XXX × YYY mm)	Custom Size
10 1/2 × 7 1/4	10 1/2 × 7 1/4
7 1/4 × 10 1/2	7 1/4 × 10 1/2
8 1/4 × 13	8 1/4 × 13
8 1/2 × 13	8 1/2 × 13
4 1/8 × 9 1/2	4 1/8 × 9 1/2
3 7/8 × 7 1/2	3 7/8 × 7 1/2
DL (220 × 110 mm)	DL (220 × 110)
C5 Env (229 × 162 mm)	C5 Env (229 × 162)
8 × 13	8 × 13
C6 Env (162 × 114 mm)	C6 Env (162 × 114)
8K (267 × 390 mm)	8K (267 × 390)
16K (267 × 195 mm)	16K (267 × 195)
16K (195 × 267 mm)	16K (195 × 267)
Unknown	There is no tray.
**	The paper size is not selected.



❖ *3 Input Tray: Status

Status	Description
Normal	—
NoInputTray	There is no paper tray.
PaperEnd	There is no paper in the paper tray.

❖ *4 Output Tray: Name

Name	Description
Standard Tray	Output Tray
External Tray	External Tray
Finisher Shift Tray 1	Finisher Shift Tray 1
Finisher Shift Tray 2	Finisher Shift Tray 2
Left Tray 1	Left Tray 1
Left Tray 2	Left Tray 2

❖ *5 Output Tray: Status

Status	Description
Normal	----
PaperExist	There is paper in the output tray.
OverFlow	Output tray is full of paper.
Error	Other errors



Understanding the Displayed Information

This section describes how to read the status information returned by the network interface board.

Print Job Information

Print job status can be viewed using the following commands:

- telnet : Use the “status” command. See [p.269 “Printer status”](#).

Item name	Meaning
Rank	Print job status <ul style="list-style-type: none">• Active Printing or preparing to print• 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”.



Print Log Information

This is a record of the most recent 16 jobs that have been printed.

This log can be displayed using the following commands:

- telnet: Use the “prnlog” command. See p.269 “Printer status”.

Name	Meaning
ID	Print request ID
User	Print request user name
Page	The number of pages printed
Result	The result of the print request
Time	The time when the print request was received
User ID ^{*1}	User ID to be configured in the printer driver
JobName ^{*1}	The name of the document for printing

^{*1} Displays user ID and JobName information when entering the “info” command with the ID.



Configuring the Network Interface Board

The network interface board settings can be displayed by using the commands below.

- telnet: Use the “show” command. See [p.270 “Network interface board configuration settings information”](#).

Item name	Meaning
Common	
Mode	
Protocol Up/Down	Up means active, Down means inactive.
AppleTalk	
TCP/IP	
NetWare	
NetBEUI	
IP over 1394 *1 *4	
SCSI print *4	
Ethernet interface	
Syslog priority	Internal version number
NVRAM version	
Device name	Printer name
Comment	
Location	
Contact	
Soft switch	



Item name	Meaning
AppleTalk	
Mode	AppleTalk protocol is selected.
Net	Network number
Object	Macintosh printer name
Type	The type of printer
Zone	Name of the zone the printer belongs to
TCP/IP	
Mode	Up means active, Down means inactive.
ftp	
lpr	
rsh	
diprint	
web	
ftpc	
telnet	
snmp	
ipp	
EncapType	Frame type
dhcp	Dynamic Host Configuration Protocol (on/off)
Address	IP address
Netmask	Subnet mask
Broadcast	Broadcast address
Gateway	Default gateway address
Access Range[☆] *2	Access Control Range



Item name	Meaning
Primary WINS Secondary WINS Home page URL SYSLOG server Home page link name Help page URL SNMP protocol	Primary WINS server address Secondary WINS server address URL of homepage URL name of homepage URL of help page Protocol used with SNMP
NetWare EncapType RPRINTER number Print server name File server name Context name Switch Mode NDS/Bindery Packet negotiation Print job timeout Protocol SAP interval time	Frame type Remote printer number Print server name Name of the connect file server Context of print server Active mode (this value is fixed) Time of the job timeout



Item name	Meaning
NetBEUI Switch Mode Direct print Notification Workgroup name Computer name Comment Share name[1]	(this value is fixed) (this value is fixed) Notification of print job completion Name of the workgroup Name of the computer Comment Share name (name of the printer type)
IEEE 802.11b *3 Device name SSID Channel range Channel Communication mode Rate WEP encryption Authentication Encryption key	Printer name SSID being used Channels available for use Channel being used IEEE 802.11b interface transmitting mode IEEE 802.11b interface speed Whether WEP is enabled or disabled Validity or invalidity of the authorized mode setting when using WEP WEP key



Item name	Meaning
IP over 1394 *1 *4 Device name Address Netmask Broadcast	 IP address Subnet mask Broadcast address
SCSI print *4 Bidi.	 Bidirectional setting (on/off)
Shell mode	Mode of the remote maintenance tool

*1 The optional 1394 interface unit supports TCP/IP only.

*2 ☆ represents a target number between 1 and 5.

*3 You can display the item names when installing the optional 802.11b interface unit.

*4 You can display the item names when installing the optional 1394 interface unit.



Message List

This is a list of messages written in the printer's system log. The system log can be viewed using the “syslog” command.

System Log Information

You can use the following methods to view the system log:

- telnet: Use the “syslog” command. See [p.262 “Commands List”](#).

Message	Causes 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 print server mode) Cannot log on to the file server. Make sure the print server is registered on the file server. If a password is specified for the print server, delete it.
add_sess: community<community name> already defined.	The same community name already exists. Use another one.
add_sess: session<community name>already defined.	The requested community name is not defined.
add_sess: bad trap addr:<IpAddress>, community:<community name>	The IP address (0.0.0.0) is unavailable if the community access type is TRAP. Specify the host IP address for the TRAP destination.
add_sess_ipx: bad trap addr: <IPX address>, community:<community name>	The IPX address (00:00:00:00:00:00) is unavailable if 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 one.



Message	Causes and solutions
add_sess_ipx: session_ipx<community name> not defined.	The requested community name is not defined.
anpd start. (AppleTalk)	An anpd (AppleTalk Network Package Daemon) has started.
Attach FileServer =<file server name>	Attached to the file server as a nearest server.
Attach to print queue <print queue name>	(In print server mode) Attached to the print queue name.
Cannot create service connection	(In remote printer mode) Cannot establish a connection with the file server. The number of file server users may exceed the maximum number the file server can handle.
Cannot find rprinter (<print server name>/<printer number>)	The printer with the number displayed on the print server does not exist. Make sure the number of the printer is registered in 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)	Failed to start the network service. Turn the printer off and then on. If this does not work, contact your service or sales representatives.
Connected DHCP Server(<DHCP server address>).	The IP address was successfully received from the DHCP server.
connection from <IP address>	Logged on from the host <IP address>.
Could not attach to FileServer<error number>	(In remote printer mode) Cannot attach to the file server. For some reason, the file server is refusing the connection. Check the file server configuration.



Message	Causes and solutions
Could not attach to PServer<print server>	(In remote printer mode) Cannot attach to the print server. For some reason, the print server is refusing the connection. Check the print server configuration.
Current Interface Speed:xxxMbps	The speed of the network (10 Mbps or 100 Mbps)
Current IP address <current IP address>	The IP address <current IP address> was received from the DHCP server.
Current IPX address<IPX address>	The current IPX address
DHCP lease time expired.	DHCP lease time has expired. The printer tries to locate the DHCP server again. The IP address used till now becomes invalid.
DHCP server not found.	The DHCP server cannot be found. Make sure the DHCP server is running on the network.
dhcpd start.	A dhcpd (DHCP client service) has started.
Duplicate IP=<IP address>(from <MAC address>).	The same IP address is in use. Every IP address must be unique. Check the address of the device indicated in <MAC address>.
Established SPX Connection with PServer, (RPSocket=<socket number>, connID= <connection ID>)	(In remote printer mode) A connection to the print server has been established.
exiting	lpd service has ended and the system is closing.
Exit pserver	(In print server mode) Exits the print server because the necessary print server settings have not been made.



Message	Causes and solutions
Frametype =<frame type name>	The <frame type name> is configured to be used on NetWare.
httpd start.	An httpd has started.
IEEE 802.11b Card Firmware REV.IEEE 802.11b Card Firmware REV.	This is the wireless LAN card's firmware version.
IEEE 802.11b current channel <Channel>	The current channel is displayed. In Ad hoc mode, the number selected by the user appears. In Infrastructure mode, the channel used in the access point appears. Example: IEEE 802.11b current channel 11
IEEE 802.11b MAC Address = <MAC Address>	The IEEE 802.11b interface MAC address appears. Example: IEEE 802.11b MAC Address = 00:00:74:XX:XX:XX
IEEE 802.11b SSID <ssid> (AP MAC Address < MAC Address>)	The access point SSID used in Infrastructure mode and the MAC address of the access point appear. Example: IEEE 802.11b SSID test-ssid (AP MAC Address xx:xx:xx:xx:xx:xx)
IEEE 802.11b <transmission mode> mode	This is the IEEE 802.11b transmission mode. <ul style="list-style-type: none">• IEEE 802.11b [infrastructure] mode : in infrastructure mode• IEEE 802.11b [802.11 ad hoc] mode : in 802.11 ad hoc mode• IEEE 802.11b [ad hoc] mode : in ad hoc mode



Message	Causes and solutions
IEEE 802.11b Tx Rate <Transfer Speed>	The IEEE 802.11b transmitting speed (set speed) is displayed. Example: IEEE 802.11b Tx Rate 11Mbps Transmission speed varies according to signal quality. Actual transmission speed may differ from the displayed value.
inetd start.	An inetd has started.
<interface> started with IP: <IP address>	<IP address> has been set for <Interface> and <Interface> started.
<Interface>: Subnet overlap.	Subnet from Netmask and the IP address you tried to set for <Interface> overlap the subnet of another interface. Set Subnet so that it does not overlap with another interface.
IPP cancel-job: permission denied.	The printer could not authenticate the name of the user attempting to cancel a job.
ipp disable.	Printing with ipp is disabled.
ipp enable.	Printing with ipp is enabled.
IPP job canceled. jobid=&percent;d.	The spooled job has been canceled due to an error or user request.
job canceled. jobid=&percent;d.	The spooled job has been canceled due to an error or user request.
LeaseTime=<lease time>(sec), RenewTime=<renew time>(sec).	The resource lease time received from the DHCP server is <lease time> in seconds. The renewal time is also <renew time> in seconds.



Message	Causes and solutions
Login to fileserver <file server name> (<IPX IP>,<NDS BINDERY>)	(In print server mode) Logged on to the file server with NDS or BINDERY mode.
multid start.	Data transmission service for multiprotocols has started.
nbstart start. (NetBEUI)	The service for NetBEUI stack setting has started.
NBT Registration Broadcast(<NetBIOS name>)	Use a local broadcast to map <NetBIOS name> with the IP address.
nbttd start.	An nbttd (NetBIOS over TCP/IP Daemon) has started. (Available only in DHCP mode)
NetBEUI Computer Name =<computer name>	The NetBEUI Computer Name is defined as <computer name>.
nmsd start. (NetBEUI)	An nmsd (Name Server Daemon) has started.
nprinter start. (NetWare)	(In remote printer mode) NetWare service has started.
nwstart start. (NetWare)	The service for NetWare stack setting has started.
Open log file <file name>	(In print server mode) The specified log file has been opened.
papd start. (AppleTalk)	AppleTalk print service has started.
permission denied.	Job cancellation was determined to be unauthorized after checking the user name and host address (except for ROOT authorization).
phy release file open failed.	The network interface board needs replacing. Contact your sales or service representatives.



Message	Causes and solutions
Print queue <print queue name> cannot be serviced by printer 0, <print server name>	(In print server mode) The print queue name cannot be serviced. Make sure that print queue volume exists on the specified file server.
Print server <print server name> has no printer.	(In print server mode) The printer object is not assigned to the print server <print server name>. Using NWadmin, assign the printer object, and then restart the printer device.
Print session full	Cannot accept the print session.
Printer <printer name> has no queue	(In 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 print server mode) NetWare service has started.
Required computer name (<Computer name>) is duplicated name	The same computer name is detected on the network. The start job determines the computer name by adding the computer name to the suffix (0,1,...). Configure a new computer name that is unique.
Required file server (<file server name>) not found	Cannot find the required file server.
restarted.	LPD has started.
sap enable, saptpe=<SAP type>, sapname=<SAP name>	The SAP function has started. The SAP (SAP type and SAP name) packet is issued to advertise the service on the SAP table on the NetWare server.
Set context to <NDS context name>	A <NDS context name> has been set.
shutdown signal received. network service rebooting...	Rebooting the network service.



Message	Causes and solutions
smbd start. (NetBEUI)	An smbd (SMB (Server Message Block) service) has started.
Snmp over ip is ready.	Communication over TCP/IP with SNMP is available.
Snmp over IP over 1394 is ready.	Communication over IP over 1394 with SNMP is available.
Snmp over ipx is ready.	Communication over IPX with SNMP is available.
snmpd start.	SNMP service has started.
started.	Direct print service has started.
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.	Cannot log on to the file server. The print server is not registered or the password is specified. Register the print server without specifying a password.
win2kspd protocol-DOWN (APPEXIT).	The NVRAM setting ioctl (SPIO CAPPEXIT) of device SBP2TSP was set by protocol-DOWN. SCSI print is not receiving data.
win2kspd protocol-UP (APPENTRY).	The NVRAM setting ioctl (SPIO CAPPENTRY) of device SBP2TSP was set by protocol-UP. SCSI print is not receiving data.
win2kspd started.	SCSI print (SBP-2) service has started.
WINS name refresh :Server No Response	There was no response to the update request from the server. Confirm the WINS server address is correct and working properly.



Message	Causes and solutions
WINS name registration/refresh error code(errornumber)	Set unique (not shared) NetBIOS names. Confirm the WINS server address is correct and working properly.
WINS name registration:Server No Response	There was no response to the registration request from the server. Confirm the WINS server address is correct and working properly.
WINS server address0.0.0.0	The WINS server address has not been specified. Specify the WINS server address to match the printer name with WINS.
WINS Server=<WINS server address> NetBIOS Name=<NetBIOS name>	The printer name has been successfully registered in <WINS server address>.
WINS wrong scopeID	The scope ID is wrong. Specify the correct scope ID.
write error occurred. (diskfull)	The hard disk became full while the spool file was being written. Wait until enough HDD space becomes available as printing proceeds.
write error occurred. (fatal)	A fatal error occurred while the spool file was being written. Turn the printer off and then on. If this does not work, contact your service or sales representative.



Precautions

Please pay attention to the following when using the network interface board. When configuration is necessary, follow the appropriate procedures below.

Connecting a Dial Up Router to a Network

When the NetWare file server and printer are on opposite sides of a router, packets are continuously sent back and forth, possibly causing communication charges to increase. Because the packet transmission is a specification of NetWare, you need to change the router's configuration. If the network you are using does not allow you to configure the router, configure the printer.

Configuring the router

Filter packets so 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 more information about printing a configuration page, see *Setup Guide Copier System Edition*.
- For more information about configuring the printer if the router cannot be configured, see the instructions below.



Configuring the printer with NetWare

1 Follow the setup method in this manual, configure the file server.

2 Set the frame type for a NetWare environment.

 **Reference**

For more information about selecting a frame type, see [p.92 “NetWare Configuration”](#).

Configuring the printer without NetWare

1 While not printing, the network interface board sends packets on the network. Set the NetWare to inactive.

 **Reference**

For more information about selecting a protocol, see [p.92 “NetWare Configuration”](#).





PostScript Printing from Windows

When printing PostScript from Windows, see *PostScript 3 Supplement*.

NetWare Printing

Form Feed

You should not configure form feed on NetWare. Form feed is controlled by the printer driver on Windows. If NetWare form feed is configured, the printer might not print properly. If you want to change the form feed setting, always configure it on Windows.

- 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, clear the **[Form feed]** check box on the **[NetWare Settings]** tab in the printer properties dialog box.
- Under Windows NT 4.0, clear the **[Form feed]** check box on the **[NetWare Settings]** tab in the printer properties dialog box.



Banner Page

You should not configure a banner page on NetWare. If you want to change the banner page setting, always configure it on Windows.

- 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, clear the **[Enable banner]** check box on the **[NetWare Settings]** tab in the printer properties dialog box.
- Under 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

After resetting the remote printer, it will be cut off from the print server for about 30-40 seconds before reconnecting. Due to the NetWare specification, print jobs may be accepted, but not printed during this interval.

When using the printer as a remote printer, wait about two minutes after resetting the printer before attempting to print.



Using DHCP

You can use the printer under a DHCP environment. You can also register the printer NetBIOS name on a WINS server when it is running.

Limitation

- DHCP cannot be used with IEEE 1394 (IP over 1394). Set a fixed IP address using the control panel, telnet, or a Web browser.
 - See *Setup Guide Copier System Edition*.
 - See [p.263 “TCP/IP address”](#).
 - See [p.217 “Configuring the Network Interface Board Settings”](#).

Note

- Printers that register the printer NetBIOS name on a WINS server must be configured for the WINS server. See [p.284 “WINS”](#).
- Supported DHCP server is Windows NT 4.0 Server Service Pack 4 or later, Windows 2000 Server, and NetWare 5/5.1, 6.
- If you do not use the WINS server, reserve the printer's IP address in the DHCP server so the same IP address is assigned every time.
- DHCP relay-agent is not supported. If you use DHCP relay-agent on a network via ISDN line, it will result in expensive line charges. This is because your computer connects to the ISDN line whenever a packet is transferred from the printer.



Using AutoNet

If the printer IP address is not assigned by a DHCP server automatically, a temporary IP address starting with 169.254 that is not used on the network can be automatically selected by the printer.

Limitation

- You must change the setting to “on” to use AutoNet. See [p.285 “AutoNet”](#).

Note

- The IP address assigned by the DHCP server is given priority over that selected by AutoNet.
- You can confirm the current IP address on the configuration page. For more information about the configuration page, see [p.236 “Printing a Configuration Page”](#).
- When AutoNet is running, the NetBIOS name is not registered on the WINS server.

Configuring a WINS Server

The printer can be configured to register its NetBIOS name with a WINS server when its power is turned on. This enables the NetBIOS name of the printer to be specified from SmartNetMonitor for Admin even under a DHCP environment.

This section describes how to configure the WINS server.

Note

- The WINS Server is supported with Windows NT 4.0 Server Service Pack 4 or later, and Windows 2000 Servers WINS Manager.
 - For more information about the WINS Server settings, see Windows Help.
 - If there is no reply from the WINS Server, the NetBIOS name will be registered by broadcast.
 - The NetBIOS name consists of up to 13 alphanumeric characters.
- 



Using a Web browser

- 1** Start the Web browser.
- 2** Point your browser at the printer's URL or IP address (e.g. `http://XXX.XXX.XXX` substituting the Xs with the IP address).

The status of the chosen printer appears on the Web browser.
- 3** Click **Network Config**.

The dialog box for entering the password and user name appears.
- 4** Enter your user name and password, and then click **[OK]**.

To use the default account, enter no user name and enter “password” as the password.
- 5** Click **TCP/IP**.
- 6** Set **WINS** to “active” and enter the IP address of the WINS server in **[Primary WINS Server]** and **[Secondary WINS Server]**.
- 7** Click **[Refresh]**.
- 8** Exit the Web browser.



Using telnet

1 Connect to the remote printer using telnet.

2 Use the “set” command to make WINS active.

```
msh> set wins on
```

3 Specify the IP addresses (primary and secondary) using the following commands:

```
msh> wins primary Ipaddress
```

```
msh> wins secondary Ipaddress
```

 **Note**

- To confirm the current configuration, use the “show” command.

4 Log out from telnet.

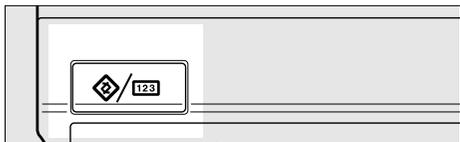


Other Functions

Changing the Display Language

You can change the language used on the display. The default setting is English.

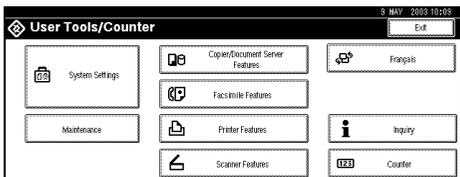
- 1 Press the **[User Tools/Counter]** key.



ZFLS110E

"User Tools/Counter" appears on the panel display.

- 2 Press **[Francais]**.

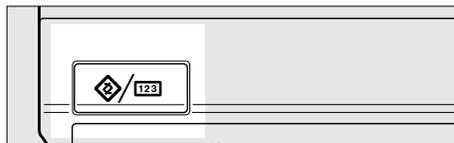


The display language is changed to French.

Displaying the Total Counter

You can display the total number of sheets used for all functions and total number of sheets used for copying.

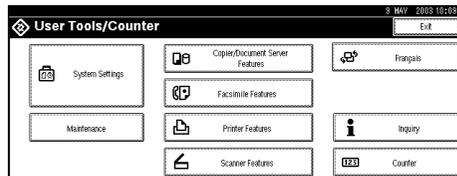
- 1 Press the **[User Tools/Counter]** key.



ZFLS110E

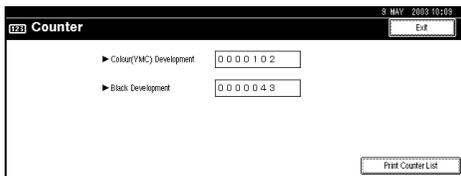
"User Tools/Counter" appears on the panel display.

- 2 Press **[Counter]**.



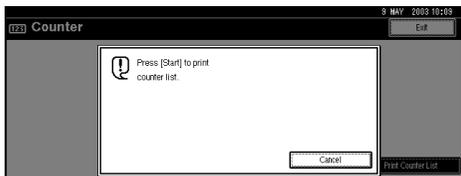


The totals are displayed.



3 To print a counter list, Press **[Print Counter List]**.

A confirmation dialog box appears.



4 Press the **[Start]** key.

A counter list is printed.



Memory Capacity and Paper Size

Print Quality	Paper Size	Non-Duplex Printing		Duplex Printing	
		Can print	Guaranteed	Can print	Guaranteed
600 × 600 dpi *1	A3	64 MB (Standard)	64 MB (Standard)	64 MB (Standard)	128 MB (Standard+64 MB)
	B4				
	A4				
	B5				
	A5				
1200 × 600 dpi *2	A3	64 MB (Standard)	128 MB (Standard+64 MB)	64 MB (Standard)	192 MB (Standard+128 MB)
	B4		64 MB (Standard)		128 MB (Standard+64 MB)
	A4				
	B5				
	A5				
1200 × 1200 dpi *3	A3	64 MB (Standard)	192 MB (Standard+128 MB)	128 MB (Standard+64 MB)	384 MB (128 MB+256 MB)
	B4		128 MB (Standard+64 MB)		320 MB (Standard+256 MB)
	A4				
	B5			64 MB (Standard)	192 MB (Standard+128 MB)
	A5				



*1 Resolution settings from each printer driver are as follows:

- RPCS: **[600 x 600 dpi]** on **[Resolution]**
- PCL 5c: **[600 dpi]** on **[Resolution]**
- PostScript 3: **[600dpi]** on **[Resolution]** and **[Fast]** on **[Gradation]**

 **Reference**

For more information about how to set the printer driver, see the printer driver Help.

*2 Resolution settings from each printer driver are as follows:

- RPCS: **[1200 x 600 dpi]** on **[Resolution]**
- PostScript 3: **[600dpi]** on **[Resolution]** and **[Standard]** on **[Gradation]**

 **Reference**

For more information about how to set the printer driver, see the printer driver Help.

*3 Resolution settings from each printer driver are as follows:

- RPCS: **[1200 x 1200dpi]** on **[Resolution]**
- PostScript 3: **[1200dpi]** on **[Resolution]** and **[Fast]** on **[Gradation]**

 **Reference**

For more information about how to set the printer driver, see the printer driver Help.



Specifications

Mainframe

❖ Configuration:

Desktop

❖ Print Process:

Laser beam scanning & Electrophotographic printing

Dual component toner development

❖ Printing Speed:

Monochrome: Maximum 38 pages per minute (A4 ) , (11 × 8 1/2 )

Color: Maximum 28 pages per minute (A4 ) , (11 × 8 1/2 )

❖ Interface:

- Parallel (Bidirectional IEEE1284)
- Ethernet (10/100Base-TX)

Optional:

- IEEE 1394 (SCSI print, IP over 1394)
- IEEE 802.11b (wireless LAN)
- USB (USB1.1, USB2.0 ^{*1})

^{*1} Requires a USB port and cable that support USB 2.0.

- Bluetooth

**❖ Resolution:**

1200 × 1200 dpi (RPCS, PostScript 3)

1200 × 600 dpi (RPCS, PostScript 3)

600 × 600 dpi (PCL 5c, RPCS, PostScript 3)

300 × 300 dpi (PCL 5c *¹)

*¹ monochrome only

❖ Printer Language:

PCL 5c, RPCS, Adobe PostScript Level 3

❖ Fonts:**PCL 5c**

Agfa Font 35 Manager Intellifonts, 10 TrueType fonts, and 1 Bitmap font Agfa Font Manager available, 31 fonts

PostScript 3

136 fonts

❖ Paper Size:

See “Paper and Other Media”, *Maintenance Guide Copier System Edition*.

❖ Paper Weight:

See “Paper and Other Media”, *Maintenance Guide Copier System Edition*.

❖ Media Type:

See “Paper and Other Media”, *Maintenance Guide Copier System Edition*.

❖ Power Source:

220 - 240 V, 50/60Hz

**❖ Power Consumption:**

Printing	1,500 W or less
Energy Saver	15 W or less

❖ Noise Emission ^{*1}:**Sound Power Level**

	Main unit only
During Printing	68 dB (A)
Standby	42 dB (A)
Energy Saver	40 db (A)

Sound Pressure level ^{*2}

	Main unit only
Standby	25 dB (A)
During Printing	55 dB (A)

^{*1} The preceding measurement, made in accordance with ISO7779, are actual values.

^{*2} Measured at the position of a bystander.

❖ **Dimensions:**

	Width	Depth	Height
Printer only (tray not extended)	575 mm (22.7 inches)	678 mm (26.7 inches)	745 mm (29.3 inches)
With Paper Feed Unit Type 3800C or Paper Bank PS470, and SR770	1,450 mm (57.2 inches)	678 mm (26.7 inches)	1060 mm (41.7 inches)
With Paper Feed Unit Type 3800C or Paper Bank PS470, and Mail Bin Type 3800C	575 mm (22.7 inches)	678 mm (26.7 inches)	1400 mm (55.0 inches)

❖ **Weight:**

Approximately 85 kg (184 lb) (toner cartridge and power cord included)

❖ **Warm-up Time:**

Less than 99 seconds (23°C, 73F) *¹

*¹ When no error.

❖ **Paper Input Capacity:**

Standard Paper Tray	500 sheets × 2 * ¹
Bypass Tray	100 sheets * ¹
Optional Paper Feed Units	500 sheets × 1, 500 sheets × 2 * ¹
Paper Bank PS470	2,000 sheets * ¹

*¹ Paper weight: 80 g/m² (20 lb)

*² You can load up to 10 envelopes at the same time.

❖ **Paper Output Capacity:**

Face down: 500 sheets (80 g/m², 20 lb)

Face up: 100 sheets (80 g/m², 20 lb)

❖ **Paper weight and number of sheets to be set:**

	Supported paper weight	Maximum number of sheets (plain paper)
Tray 1	60-105 g/m ² (16-28 lb)	500 (80 g/m ² , 20 lb)
Tray 2	60-105 g/ m ² (16-28 lb)	500 (80 g/m ² , 20 lb)
Bypass Tray	60-163 g/ m ² (16-42 lb)	100 (80 g/m ² , 20 lb)
Paper Feed Unit Type 3800C (500 × 1)	60-105 g/ m ² (16-28 lb)	500 (80 g/m ² , 20 lb)
Paper Feed Unit Type 3800C (500 × 2)	60-105 g/ m ² (16-28 lb)	500 (80 g/m ² , 20 lb)
Paper Bank PS470	60-105 g/ m ² (16-28 lb)	2000 (80 g/m ² , 20 lb)

❖ **Memory:**

Standard 64 MB, up to 384 MB (with the optional memory unit)

❖ **Network:**

Protocol: TCP/IP, NetBEUI*1, IPX/SPX, AppleTalk

*1 To use NetBEUI, use the SmartNetMonitor for Client port.



Options

Paper Feed Unit Type 3800C (500 × 1)

- ❖ **Dimensions (W × D × H):**
540 × 600 × 172 mm (21.3 × 23.7 × 6.8 in)
- ❖ **Paper Weight:**
60 - 105 g/m² (16 - 28 lb)
- ❖ **Paper Size:**
A5 (Long edge feed) - A3, 8¹/₂ × 11 - 11 × 17 (Short edge feed)

Paper Feed Unit Type 3800C (500 × 2)

- ❖ **Dimensions (W × D × H):**
540 × 600 × 270 mm (21.3 × 23.7 × 10.7 in)
 - ❖ **Paper Weight:**
60 - 105 g/m² (16 - 28 lb)
 - ❖ **Paper Size:**
A5 (Long edge feed) - A3, 8¹/₂ × 11 - 11 × 17 (Short edge feed)
- 



Paper Bank PS470 (Large Capacity Tray)

❖ **Dimensions (W × D × H):**

540 × 600 × 270 mm (21.3 × 23.7 × 10.7 in)

❖ **Paper Weight:**

60 - 105 g/m² (16 - 28 lb)

❖ **Paper Size:**

A4 (Long edge feed) or 8¹/₂ × 11 (Short edge feed)

SR770 (2 Tray Finisher)

❖ **Dimensions (W × D × H):**

680 × 620 × 1,030 mm (26.8 × 24.4 × 40.6 in)

❖ **Paper Size:**

A5 (Long edge feed) - A3, 8¹/₂ × 11 - 11 × 17 (Short edge feed)

❖ **Paper Weight:**

60 - 105 g/m² (16 - 28 lb)

❖ **Stack Capacity:**

- Upper Tray:
500 sheets (A4/11 × 8¹/₂/B5/A5 (Long edge feed) - 80 g/m², 20 lbs.)
- Lower Tray
2,000 sheets (A4/11 × 8¹/₂ (Long edge feed) - 80 g/m², 20 lbs.)
750 sheets (A3, B4, A4 (Short edge feed), B5, 8¹/₂ × 14, 11 × 17, 8¹/₂ × 11 (Short edge feed))
500 sheets (A5 (Long edge feed))

**❖ Weight:**

53 kg (116.9 lb)

PT460 (Multi bin)

❖ Dimensions (W × D × H):

Mainframe: 54 × 409 × 215 mm (2.1" × 16.1" × 8.5")

Tray: 405 × 367 × 28 mm (15.9" × 14.4" × 1.1")

❖ Paper Size:

A3, A4, A5, B4, B5, 11 × 17, Legal, 8 1/2 × 11 (Detectable size from Paper Feed Unit)

❖ Paper Weight:

60 - 105 g/m² (16 - 28 lb)

❖ Stack Capacity:

Tray 1: 100 sheets 80 g/m²

Tray 2: A4, smaller than 8 1/2 × 11 → 250 sheets 80 g/m²

B4, Legal → 100 sheets 80 g/m²

❖ Weight:

Mainframe: 1.5 kg (3.3 lb)

Tray: 0.49 kg (1.0 lb)



Duplex Unit Type 7000

❖ Dimensions (W × D × H):

90 × 524 × 430 mm (3.6 × 20.7 × 17.0 in)

(Including the duplex reversal unit and duplex reversal unit stand)

❖ Paper Size:

A5 (Long edge feed) - A3, 17 × 11 - 10¹/₂ × 7¹/₄ (Long edge feed)

❖ Weight:

8 kg (3.6 lb)

Printer Hard Disk Type 7000

❖ Storage Capacity (Formatted):

20 GB, 40 GB

- Spool print data to collate
- Spool Sample/Locked Print data
- Store PostScript fonts
- Store log data

Note

- You can install PostScript fonts using the optional hard disk drive. With Macintosh, supported fonts are PostScript Type 1 and PostScript Type 2. To download them, use Printer Utility for Mac.
- When you install the optional scanner unit, the 40 GB printer hard disk must be required to use the Document Server function.



Memory Unit TypeC 64/128/256MB

- ❖ **Module Type:**
SO-DIMM (Small Outline Dual-in-line Memory Module)
- ❖ **Memory Type:**
SDRAM (Synchronous Dynamic RAM)
- ❖ **Number of Pins:**
144 pins

User Account Enhance Unit Type C

- ❖ **Capacity:**
64 KB
 - Store User Code (Up to 400 users)

USB2.0 Interface Board Type A

- ❖ **Transmission spec:**
USB1.1 and USB2.0
- ❖ **Data transfer speed:**
High speed (USB2.0): 480 Mbps
Full speed: 12 Mbps
Low speed: 1.5 Mbps



**❖ PnP (Plug and Play):**

If a USB cable is connected, the operating system will automatically recognize the printer and one of the following:

- ① USB driver is installed: the operating system automatically sets up the printer.
- ② USB driver is not installed: a pop-up menu appears which recommends you to install the driver.

❖ Supported operating systems:

USB1.1: Windows 98/2000/Me/XP, Mac OS 9.x, Mac OS X classic mode

USB2.0 ^{*1}: Windows 2000/Me/XP

^{*1} Depends on Microsoft's driver support schedule.

❖ USB cable:

USB cable should be procured locally.

 Note

- USB2.0 incorporates USB1.0 specification.
- USB2.0 port is required for the computer.

1394 Interface Unit Type 4510

❖ Interface:

IEEE Std. 1394-1955 compliant, IEEE Std. 1394-2000 compliant.

❖ Interface Connector:

IEEE 1394 (6 × 2 pins)



**❖ Required cable:**

IEEE 1394 interface cable (6 × 4 pins, 6 × 6 pins)

❗ Important

- You cannot plug devices together to create loops.
- Do not use a cable that is more than 4.5 meters long.

❖ Connectable number of devices in a bus:

Maximum 63

❖ Allowed cable hops in a bus:

Maximum 16

❖ Data Transmission:

400 Mbps (Maximum)

❖ Power supply:

No separate power supply
Cable Power repeated (IEEE 1394a-2000 compliant)

802.11b Interface Unit TypeA

❖ Transmission Spec.:

Based on IEEE 802.11b (wireless LAN)

❖ Protocol:

TCP/IP, NetBEUI, IPX/SPX, AppleTalk

**Note**

- SmartNetMonitor and WebStatusMonitor are supported.
- 



❖ **Data Transfer Speed:**

1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps
(auto selected)

❖ **Frequency Range:**

- Inch version:
2412-2462 Mhz (1-11 channels)
- Metric version:
2412-2472 Mhz (1-13 channels)

❖ **Transmittable Distance:**

1 Mbps 400 m ^{*1}
2 Mbps 270 m ^{*1}
5.5 Mbps 200 m ^{*1}
11 Mbps 140 m ^{*1}

^{*1} These figures are a guideline for outdoor use. In general, the transmittable distance indoors is 10-100 m, depending on the environment.

❖ **Transmission Mode:**

ad hoc and infrastructure mode





Information about Installed Software

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 (c) 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.





INDEX

1394 Interface Unit Type 4510, 335
4 Colour Graphic Mode, 240

A

Access Control, 266
Append CR to LF, 252
Auto Continue, 243
Autonet, 318
 telnet, 285

B

Bidirectional SCSI print, 166
Bidirectional transmission, 52, 70, 89
B&W Page Detect, 243
Bypass Paper Size, 231

C

cable, 336
Changing Names and Comments, 206, 222
Changing the Display Language, 321
Channel, 168
Color Demo Page, 235
Combined Function Operations, 17
Communication Mode, 167
community name, 272
Config. Page, 235, 236

Configuration

Windows 2000, 35
Windows XP, 55

configuration

NetWare, 92
NetWare 3.x, 93
NetWare 4.x, 5/5.1, 6, 100
Windows NT 4.0, 73

Configuring NetBEUI for Printing

Windows 2000, 37
Windows NT 4.0, 75

Configuring Protocols

Windows 2000, 35
Windows NT 4.0, 73
Windows XP, 55

Copies, 243

Copy Mode, 17
Courier Font, 252

D

DHCP, 268, 317
dial up router, 313
Displaying Printer Status, 209, 225
Displaying the Total Counter, 321
Document Server, 109
 Deleting, 133
 Features and Benefits, 113
 Printing, 125
 Scanning Originals, 119
Document Server Mode, 20



Domain Name, 166
Duplex, 243
Duplex Unit Type 7000, 333

E

Extend A4 Width, 252

F

Facsimile Mode, 25
File Merge Printing, 115
Font Number, 252
Font Pitch, 252
fonts, 326
Font Source, 252
Form Lines, 252

G

Getting Printer Information over the Network, 288

H

Hex Dump, 235
Host Interface, 250
Host Name, 166, 285

I

IEEE 802.11b, 280
Image Density, 240
information
 Network Interface Board configuration, 299
 Network interface board configuration, 270
 print job, 297
 print log, 298
 system log, 270, 304

Installing

SmartNetMonitor for Admin, 203
 SmartNetMonitor for Client, 39, 58, 77

Installing Software

Windows 2000, 39
 Windows NT 4.0, 77
 Windows XP, 58

Interface Settings/IEEE 1394, 165
Interface Settings/IEEE 802.11b, 167

Interrupt Copying, 18

I/O Buffer, 250

I/O Timeout, 250

IP Address, 162, 165

IP address, 263

IP over 1394, 166

IPP, 274

IPP for Printing

Windows 2000, 35
 Windows NT 4.0, 73
 Windows XP, 55

**J**

Job Separation, 243

L

LAN adapter number (Lana Number), 76

LAN Type, 163

Letterhead Setting, 243

List/Test Print, 235

List/Test Print Parameters, 235

M

Maintenance, 240

Making Printer Settings Using the Control Panel,
226

memory, 329

Memory Capacity and Paper Size, 323

Memory Overflow, 243

Memory Unit TypeC, 334

menu, accessing, 229

Menu Chart, 226

Menu List, 235

Menu Protect, 240

message, 304

MIB, 258

Misfeed Recovery, 243

Multi-Access, 33

N

NetWare, 92

NetWare 3.x, 93

NetWare 4.x, 5/5.1, 6, 100

NetWare Printing, 315

Network Interface Board, 329

NIB, 329

O

On Demand Printing, 113

options, 330

Orientation, 252

P

Page Size, 243

Paper Bank PS470, 331

Paper Feed Unit Type 3800C, 330

Paper Input, 231

Password, 286

password, 217

PCL Config.Page, 235

PCL/PS, 252

Point Size, 252

PostScript Printing from Windows, 315

precautions, 313

Printer Hard Disk Type 7000, 333

Printer Language, 243



Printer Mode, 26
Print Error Report, 243
printer status, 269
PS Config. Page, 235
PT460 (Multi bin), 332
Pure IP, 103

R

remote printer, setup
 NetWare 4.x, 5, 105
Resolution, 252
Return to Defaults, 168

S

Scanner Mode, 28
SCSI print (SBP-2), 166
SDRAM, 329, 334
Setting Up as a Print Server
 NetWare3.x, 94
 NetWare4.x/NetWare5.1, 101
Setting Up as a Remote Printer
 NetWare3.x, 96
 NetWare4.x/NetWare5.1, 105
Setting Up Options
 Windows 2000, 51
 Windows NT 4.0, 88
 Windows XP, 69

Share Setting
 Windows 2000, 54
 Windows NT 4.0, 91
 Windows XP, 72
SmartNetMonitor for Admin
 Installing, 203
SmartNetMonitor for Client
 Installing, 39, 58, 77
SMB, 277
SNMP, 258, 271
specifications, 325
SR770 (2 Tray Finisher), 331
SSID Setting, 167
subnet mask, 265
Sub Paper Size, 243
Symbol Set, 252
System, 243

T

TCP/IP for Printing
 Windows 2000, 35
 Windows NT 4.0, 73
 Windows XP, 55
telnet, 261
 Autonet, 285
 WINS, 284
Transmission Speed, 168



U

- USB2.0 Interface Board Type A, 334
- User Code, 177
- User Tools (System Settings), 140
- Using a Web Browser, 215
- Using SmartNetMonitor for Admin, 201

W

- WEP (Encryption) Setting, 168
- Windows 2000, 35
 - Share Setting*, 54
- Windows NT 4.0, 73
 - Share Setting*, 91
- Windows XP, 55
 - Share Setting*, 72
- WINS, 318
 - telnet*, 284
- Wireless LAN Signal, 168



