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## 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

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Parts 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

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

---

### Trademarks

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

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## Note

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- The product name of Windows<sup>®</sup> 95 is Microsoft<sup>®</sup> Windows<sup>®</sup> 95.
- The product name of Windows<sup>®</sup> 98 is Microsoft<sup>®</sup> Windows<sup>®</sup> 98.
- The product name of Windows<sup>®</sup> Me is Microsoft<sup>®</sup> Windows<sup>®</sup> Millennium Edition (Windows Me).
- The product name of Windows<sup>®</sup> 2000 are as follows:  
Microsoft<sup>®</sup> Windows<sup>®</sup> 2000 Server  
Microsoft<sup>®</sup> Windows<sup>®</sup> 2000 Professional
- The product name of Windows NT<sup>®</sup> 4.0 are as follows:  
Microsoft<sup>®</sup> Windows NT<sup>®</sup> Server 4.0  
Microsoft<sup>®</sup> Windows NT<sup>®</sup> 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, originals might be damaged, 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 misoperation.

 **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 panel 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.





# 1. Windows 2000 Print Server Configuration

## Configuring the Protocols

---

### Configuring TCP/IP and IPP for Printing

---

Follow these instructions to configure the Network Interface Board and Windows 2000 to use the TCP/IP protocol and IPP.

---

### Configuring the printer

---

Configure the printer to use the TCP/IP protocol.

- Confirm that the TCP/IP protocol is set to be active. (The factory default is active.)
- Assign an IP address and make other settings required for using the TCP/IP protocol.

#### Reference

For more information about how to make the above settings, see "*Windows 2000 Configuration*" in Printer Client Reference 1 that comes with this printer.

If DHCP is used to assign IP addresses, see [p.242 "When Using DHCP"](#).

#### Note

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

① Click **[Start]**, point to **[Programs]**, point to **[Accessories]** and then click **[Command Prompt]**.

② Type the following. (Example IP address is 192.168.15.16)

```
C:> ping 192.168.15.16
```

If the address has been configured correctly, the following message appears.

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

If the address has been configured incorrectly, the following message appears.

```
Request timed out.
```



---

## Configuring a Windows 2000 computer

---

Follow these steps to configure a Windows 2000 computer to use the TCP/IP protocol.

- 1** Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Network and Dial-up Connections]**.
- 2** Click **[Local Area Connection]**. On the **[File]** menu, click **[Properties]**.
- 3** Confirm that "Internet Protocol (TCP/IP)" is selected in the **[Components checked are used by this connection:]** box under the **[General]** tab.

 **Note**

- If the check box of TCP/IP protocol is not selected, select the box.
  - If the TCP/IP protocol is not installed, click **[Install]** under the **[General]** tab and install it. For more information about installing the TCP/IP protocol, see Windows 2000 Help file.
- 4** Configure the TCP/IP protocols with the appropriate IP address, subnet mask and other settings.

Confirm with the network administrator that the settings are correct.





---

## Configuring NetBEUI for Printing

---

Follow these instructions to configure the Network Interface Board and Windows 2000 to use the NetBEUI protocol.

---

### Configuring the printer

---

Configure the printer to use the NetBEUI protocol.

- Confirm that the NetBEUI protocol is set to be active. (The factory default is active.)

#### Reference

For more information about how to make the above settings, see "*Windows 2000 Configuration*" in Printer Client Reference 1 that comes with this printer.

---

### Configuring a Windows 2000 computer

---

Follow these steps to configure a Windows 2000 computer to use the NetBEUI protocol.

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





**3** Confirm that "NetBEUI Protocol" is selected in the [Components checked are used by this connection:] box under the [General] tab.

 **Note**

- If the check box of the NetBEUI protocol is not selected, select the box.
- If the NetBEUI protocol is not installed, click [Install] under the [General] tab and install it. For more information about installing the NetBEUI protocol, see Windows 2000 Help file. "Network" installation installs the PCL 5c and RPCS printer driver and SmartNetMonitor for Client. When you print using TCP/IP, NetBEUI or IPP protocol in Peer-to-Peer Network, you must select this installation.





## Installing Software

### Preparation

Select "Network" installation when you use the printer for direct printing.

"Network" installation installs the PCL 5c and RPCS printer driver and SmartNetMonitor for Client. When you print using TCP/IP, NetBEUI or IPP protocol in Peer-to-Peer Network, you must select this installation.

"Custom" installation allows to install SmartNetMonitor for Client separately.

---

### Installing by "Network" installation

---

**1** Close 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 automatically work with certain OS settings. In this case, launch "INST-TOOL.EXE" located on the CD-ROM root directory.

**3** Follow the instructions on the screen.

**4** Select "Network" installation when the selection screen appears.

**5** Follow the instructions on the screen.

**6** Select a printer you want to use when the [Select Printer] dialog box appears.





**7** Click **[Add..]** when the **[Select Port]** dialog box appear.

**8** Select **[SmartNetMonitor for Client]** and then click **[OK]**.

Available printers will be listed.

**9** Select a printer you want to use.

---

## TCP/IP

---

**1** Select 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 type the IP address or host name.

---

## NetBEUI

---

**1** Click **[NetBEUI]**.

A list of printers that can be printed by the NetBEUI protocol appears.

**2** Select 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 type the NetBEUI address. Confirm the NetBEUI address on the network configuration page. For more information about the printing of configuration page, see [p.242 "When Using DHCP"](#).
- You cannot print to printers beyond routers.



---

## IPP

---

**1** Click [IPP].

The IPP setting dialog box appears.

**2** In [Printer URL], type "`http://(printer's IP address)/printer`" as the IP address of the printer.**3** As necessary, type the names to distinguish the printer in [IPP Port Name]. Type a name differing from those of any existing port names.

If you omit this, the address entered in [Printer URL] will be set as the IPP port name.

(Example IP address is 192.168.15.16)

`http://192.168.15.16/printer`

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

For more information about these setting, see the Help file.

**10** Click [OK].**11** Confirm the selected port is highlighted, and then click [Next].**12** Click [Finish]. **Note**

During installation, the [Digital Signature Not Found] dialog box may appear. In this case, click [Yes] to continue the installation.

**13** Restart the computer after installation is complete.



## **14** Set up the options with the printer driver.

### **Note**

- You can specify the "User Code" with the printer properties after installing the printer driver. See the Help file for the printer driver.
- You must set up the options when the bidirectional transmission is unable. For more information about the conditions of the bidirectional transmission, see [p.25 "The conditions of the bidirectional transmissions"](#).

---

## Changing Port Settings

---

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

### **Note**

- There are no settings for the NetBEUI protocol.

**1** From 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 Settings] dialog box appears

- For TCP/IP protocol, you can configure Timeout Settings.
- For IPP, you can configure User Settings, Proxy Settings and Timeout Settings.

### **Note**

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





## Printing with a Standard TCP/IP Port

### Preparation

Select **[Typical]** installation when you use the printer with Standard TCP/IP port.

**[Typical]** installation installs the PCL 5c and RPCS printer driver.

---

## Installing the Printer Driver

---

**1** Close 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 automatically work with certain OS settings. In this case, launch "INST-TOOL.EXE" located on the CD-ROM root directory.

**3** Follow the instructions on the screen.

**4** Select **[Typical]** installation, and then click **[Next]**.

**5** Follow the instructions on the screen.



- 6** Select **[Standard TCP/IP]** when the "Select Port" dialog box appears, and then click **[Next]**.
- 7** Click **[Next]** in the "Add Standard TCP/IP Printer Port Wizard" window.
- 8** Type the printer name or IP address in the "Printer Name or IP Address" box.
- 9** Click **[Finish]** in the "Add Standard TCP/IP Printer Port Wizard" window.
- 10** Confirm that the selected port has been displayed in the "Port" box, and then click **[Next]**.

 **Note**

- During installation, the **[Digital Signature Not Found]** dialog box may appear. In this case, click **[Yes]** to continue the installation.

- 11** Click **[Finish]**.

 **Note**

- You can specify the "User Code" with the printer properties after installing the RPCS printer driver. See the Help file for the printer driver.

- 12** Restart the computer after the installation is complete.

- 13** Set up the options with the printer driver.

- 14** You must set up the options when the bidirectional transmission is disabled.

 **Reference**

For more information about the status of the bidirectional transmission, see [p.25 "The conditions of the bidirectional transmissions"](#).

For more information about settings for options, see [p.24 "Setting Up Options"](#).





## Configuring LPR Port Printing

### Preparation

Select **[Typical]** installation when you use the printer with the LPR port.  
**[Typical]** installation installs the PCL 5c and RPCS printer driver.

---

## Installing the Printer Driver

---

- 1** Close 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 automatically work with certain OS settings. In this case, launch "INST-TOOL.EXE" located on the CD-ROM root directory.

- 3** Follow the instructions on the screen.
- 4** Select **[Typical]** installation, and then click **[Next]**.
- 5** Follow the instructions on the screen.



- 6** Select [LPR Port] when the "Select Port" dialog box appears, and then click [Next].
- 7** Type the printer's IP address in the "Name or address of server providing lpd" box.
- 8** Type "lp" in the "Name of printer or print queue on that server" box, and then click [OK].
- 9** Confirm that the selected port has been displayed in the "Port" box, and then click [Next].
- 10** Click [Finish].

 **Note**

- During installation, the [Digital Signature Not Found] dialog box may appear. In this case, click [Yes] to continue the installation.

**11** Restart the computer after the installation is complete.

**12** Set up the options with the printer driver.

 **Reference**

For more information about settings for options, see [p.24 "Setting Up Options"](#).

 **Note**

- You can specify the "User Code" with the printer properties after installing the printer driver. See the Help file for the printer driver.
- You must set up the options when the bidirectional transmission is disabled. For more information about the status of the bidirectional transmission, see [p.25 "The conditions of the bidirectional transmissions"](#).



## Setting Up Options

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

**1** Click **[Start]** on the taskbar, 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** Click the **[Accessories]** tab.

### **Note**

- If you use the RPCS printer driver, Click **[Change Accessories]** tab.
- If you use the PS printer driver, Click **[Device Settings]** tab.

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

**5** Click **[OK]** .





## **The conditions of the bidirectional transmissions**

When the bidirectional transmissions is enabled, the information about the paper size and feed direction settings are automatically sent to the printer by the computer. You can also confirm the printer's condition from your computer.


- The bidirectional transmissions is supported by Windows 95/98/Me, Windows 2000 and Windows NT 4.0.
- If you use the RPCS printer driver and the bidirectional transmissions is enabled, the **[Change Accessories]** tab are grayed out.

### **Note**

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

To support the bidirectional transmissions, the following conditions below are required.

### **Connecting with the parallel interface cable and the USB exchange cable.**

- The computer supports the bidirectional transmissions.
  - The Interface cable supports the bidirectional transmissions.
  - The printer is connected to the computer using the standard parallel interface cable and the parallel connector.
  - On Windows 2000, the **[Enable bidirectional support]** is selected and **[Enable printer pooling]** is not selected under the **[ports]** tab.
- 



## ❖ Connecting with the network

- SmartNetMonitor for Client and the TCP/IP protocol are used.
- On Windows 2000, the **[Enable bidirectional support]** is selected and **[Enable printer pooling]** is not selected under the **[ports]** tab.
- SmartNetMonitor for Client included on the CD-ROM is installed.





## Setting the Printer Shared

### 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** Click **[Start]** on the taskbar, 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 **[Shared as:]** under the **[Sharing]** tab.

**4** Click **[OK]**.





## 2. Windows NT 4.0 Print Server Configuration

### Configuring the Protocols

---

#### Configuring TCP/IP and IPP for Printing

---

Follow these instructions to configure the Network Interface Board and Windows NT to use the TCP/IP protocol and IPP.

---

#### Configuring the printer

---

Configure the printer to use the TCP/IP protocol.

- Confirm that the TCP/IP protocol is set to be active. (The factory default is active.)
- Assign an IP address and make other settings required for using the TCP/IP protocol.

#### Reference

For more information about how to make the above settings, see "*Windows NT 4.0 Configuration*" in Printer Client Reference 1 that comes with this printer.

If DHCP is used to assign IP addresses, see [p.39 "The conditions of the bidirectional transmissions"](#).

#### Note

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

① Click **[Start]**, point to **[Programs]**, and then click **[Command Prompt]**.

② Type the following. (Example IP address is 192.168.15.16)

```
C:> ping 192.168.15.16
```

If the address has been configured correctly, the following message appears.

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

If the address has been configured incorrectly, the following message appears.

```
Request timed out.
```



---

## Configuring a Windows NT computer

---

Follow these steps to configure a Windows NT computer to use the TCP/IP protocol.

**1** Open **[Control Panel]** and double-click the **[Network]** icon. Confirm that "TCP/IP Protocol" is listed in the **[Network protocols]** box under the **[Protocols]** tab.

 **Note**

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

**2** Configure the TCP/IP protocols with the appropriate IP address, subnet mask and other settings.

Confirm with the network administrator that the settings are correct.

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

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





---

## Configuring NetBEUI for Printing

---

Follow these instructions to configure the Network Interface Board and Windows NT to use the NetBEUI protocol.

---

### Configuring the printer

---

Configure the printer to use the NetBEUI protocol.

- Confirm that the NetBEUI protocol is set to be active. (The factory default is active.)

#### Reference

For more information about how to make the above settings, see "*Windows NT 4.0 Configuration*" in Printer Client Reference 1 that comes with this printer.

---

### Configuring a Windows NT computer

---

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

- 1** Open [Control Panel] and double-click the [Network] icon. Confirm that "NetBEUI Protocol" is listed in the [Network Protocols] box under the [Protocols] tab.

#### Note

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

- 2** Change the Lana Number. Click the [Services] tab, click "NetBIOS Interface" in the [Network Services:] box, and click [Properties:].



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

**4** Type "0" as the Lana Number.

 **Note**

- If the other protocol's Lana Number is configured with "0", you must change the Lana Number a number other than "0".

**5** Click [OK].

**6** Click [Close], and close the [Network] dialog box.

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

 **Note**

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





## Installing Software

### Preparation

Select "Network" installation when you use the printer for direct printing.

"Network" installation installs the PCL 5c and RPCS printer driver and SmartNetMonitor for Client. When you print using TCP/IP, NetBEUI or IPP protocol in Peer-to-Peer Network, you must select this installation.

"Custom" installation allows to install SmartNetMonitor for Client separately.

---

### Installing by "Network" installation

---

**1** Close 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 automatically work with certain OS settings. In this case, launch "INST-TOOL.EXE" located on the CD-ROM root directory.

**3** Follow the instructions on the screen.

**4** Select "Network" installation when the selection screen appears.

**5** Follow the instructions on the screen.

**6** Select a printer you want to use when the [Select Printer] dialog box appears.







**7** Click **[Add..]** when the **[Select Port]** dialog box appear.

**8** Select **[SmartNetMonitor for Client]** and then click **[OK]**.

Available printers will be listed.

**9** Select a printer you want to use.

---

## TCP/IP

---

**1** Select 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 type the IP address or host name.

---

## NetBEUI

---

**1** Click **[NetBEUI]**.

A list of printers that can be printed by the NetBEUI protocol appears.

**2** Select 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 type the NetBEUI address. Confirm the NetBEUI address on the network configuration page. For more information about the printing of configuration page, see [p.39 "The conditions of the bidirectional transmissions"](#).
- You cannot print to printers beyond routers.



---

## IPP

---

- 1 Click [IPP].

The IPP setting dialog box appears.

- 2 In [Printer URL], type "`http://(printer's IP address)/printer`" as the IP address of the printer.
- 3 As necessary, type the names to distinguish the printer in [IPP Port Name]. Type a name differing from those of any existing port names.

If you omit this, the address entered in [Printer URL] will be set as the IPP port name.

(Example IP address is 192.168.15.16)

`http://192.168.15.16/printer`

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



### Note

- For more information about these setting, see the Help file.

- 10 Click [OK].

- 11 Confirm the selected port is highlighted, and then click [Next].

- 12 Click [Finish].



### Note

- During installation, the [Digital Signature Not Found] dialog box may appear. In this case, click [Yes] to continue the installation.

- 13 Restart the computer after installation is complete.



## **14** Set up the options with the printer driver.

### **Note**

- You can specify the "User Code" with the printer properties after installing the printer driver. See the Help file for the printer driver.
- You must set up the options when the bidirectional transmission is unable. For more information about the conditions of the bidirectional transmission, see [p.39 "The conditions of the bidirectional transmissions"](#)

---

## Changing Port Settings

---

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

### **Note**

- There are no settings for the NetBEUI protocol.

**1** From 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 Settings]** dialog box appears

- For TCP/IP protocol, you can configure Timeout Settings.
- For IPP, you can configure User Settings, Proxy Settings and Timeout Settings.

### **Note**

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





## Configuring LPR Port Printing

### Preparation

Select **[Typical]** installation when you use the printer with the LPR port.  
**[Typical]** installation installs the PCL 5c and RPCS printer driver.

---

## Installing the Printer Driver

---

- 1** Close 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 automatically work with certain OS settings. In this case, launch "INST-TOOL.EXE" located on the CD-ROM root directory.

- 3** Follow the instructions on the screen.
- 4** Select **[Typical]** installation, and then click **[Next]**.
- 5** Follow the instructions on the screen.





- 6** Select [LPR Port] when the "Select Port" dialog box appears, and then click [Next].
- 7** Type the printer's IP address in the "Name or address of server providing lpd" box.
- 8** Type "lp" in the "Name of printer or print queue on that server" box, and then click [OK].
- 9** Confirm that the selected port has been displayed in the "Port" box, and then click [Next].
- 10** Click [Finish].

 **Note**

- During installation, the [Digital Signature Not Found] dialog box may appear. In this case, click [Yes] to continue the installation.

**11** Restart the computer after the installation is complete.

**12** Set up the options with the printer driver.

 **Reference**

For more information about settings for options, see [p.38 "Setting Up Options"](#).

 **Note**

- You can specify the "User Code" with the printer properties after installing the printer driver. See the Help file for the printer driver.
- You must set up the options when the bidirectional transmission is disabled. For more information about the status of the bidirectional transmission, see [p.39 "The conditions of the bidirectional transmissions"](#).



## Setting Up Options

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

**1** Click **[Start]** on the taskbar, 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** Click the **[Accessories]** tab.

### Note

- If you use the RPCS printer driver, Click **[Change Accessories]** tab.
- If you use the PS printer driver, Click **[Device Settings]** tab.

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

**5** Click **[OK]** .



## **The conditions of the bidirectional transmissions**

When the bidirectional transmissions is enabled, the information about the paper size and feed direction settings are automatically sent to the printer by the computer. You can also confirm the printer's condition from your computer.

- The bidirectional transmissions is supported by Windows 95/98/Me, Windows 2000 and Windows NT 4.0.
- If you use the RPCS printer driver and the bidirectional transmissions is enabled, the **[Change Accessories]** tab are grayed out.

### **Note**

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

To support the bidirectional transmissions, the following conditions below are required.

### **❖ Connecting with the parallel interface cable and the USB exchange cable.**

- The computer supports the bidirectional transmissions.
- The Interface cable supports the bidirectional transmissions.
- The printer is connected to the computer using the standard parallel interface cable and the parallel connector.
- On Windows NT 4.0, the **[Enable bidirectional support]** is selected and **[Enable printer pooling]** is not selected under the **[ports]** tab.





## ❖ Connecting with the network

- SmartNetMonitor for Client and the TCP/IP protocol are used.
- On Windows NT 4.0, the **[Enable bidirectional support]** is selected and **[Enable printer pooling]** is not selected under the **[ports]** tab.
- SmartNetMonitor for Client included on the CD-ROM is installed.







## Setting the Printer Shared

### 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** Click **[Start]** on the taskbar, 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 **[Shared]** in the **[Sharing]** tab.

### Note

- If you use alternate drivers for Windows 95/98/Me client, service pack 4 or more is required. And install the appropriate printer driver for each client.

**4** Click **[OK]**.

The printers attached to the network are displayed.





## 3. NetWare Configuration

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

### Note

- ❑ NetWare must be set to active using the operation panel of the printer. For more information about how to set it, see Administrator Reference 1 that comes with this printer.

### ❖ SmartNetMonitor for Admin

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

### Note

- ❑ If you configure NetWare printing environment by using SmartNetMonitor for Admin under following environment, NetWare Client which is provided by Novell is required.
  - NDS mode in Windows 95/98
  - NDS or Bindary mode in Windows 2000/Windows NT4.0

### ❖ Printers listed by SmartNetMonitor for Admin

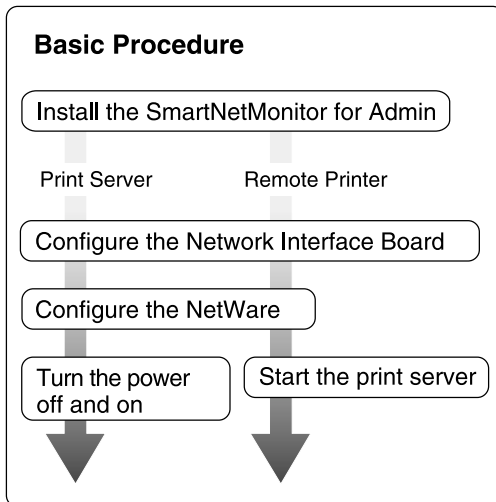
SmartNetMonitor for Admin displays a list of printers, which are connected to the network.

If you cannot find out the printer from the displayed list, refer to the configuration page printed from the printer. For more information about printing a configuration page, see [p.161 “Printing a Configuration Page”](#).



## NetWare 3.x - Advanced Settings

The actual procedures for configuring the printer differ depending on whether the Network Interface Board is configured as a print server or as a remote printer. This section describes how to configure it in the NetWare 3.x environment.



**Note**

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





---

## Installing SmartNetMonitor for Admin

---

**1** Close 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 automatically work with certain OS settings. In this case, launch "INST-TOOL.EXE" located on the CD-ROM root directory.

**3** Follow the instructions on the screen.

**4** Select "Custom" installation and then click [Next].

**5** Remove the check mark from the RPCS Printer Driver and PCL 5c Printer Driver.

**6** Click to select [SmartNetMonitor for Admin], and then click [Install].


**7** Click [OK].

**8** Follow the instructions on the screen.

After installation is completed, see [p.45 "Setting Up as a Print Server"](#) when you use the printer as a print server.

See [p.47 "Setting Up as a Remote Printer"](#) when you use the printer as a remote printer.

 **Note**

- If you require restarting the computer after installation of SmartNetMonitor for Admin was completed, restart the computer and continue to configuration.
- 



---

## Setting Up as a Print Server

---

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

**2** Run SmartNetMonitor for Admin.

**3** Click the [Group] menu and click [Open LAN] and select [IPX/SPX].

A list of printers appears

 **Note**

- If you cannot identify which printer to configure from the list of printers, print Configuration Page from the printer and find the desired printer. For more information about printing Configuration Page, see p.161 "Printing a Configuration Page".
- If no printer name appears in the list, match the frame types of the IPX/SPX protocol between the computer and printer. Use the [Network] dialog box of Windows to change the frame type of the computer. For more information about changing the frame type of equipment, see "*Configuring the Printer for the Network*" in Administrator Reference 1.

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

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

**6** Type the device name into the [Device Name] box and comment into the [Comment] box as necessary, and then click [Next].

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





**8** Click to select **[Bindery Mode]**, type the file server name into the **[File Server Name:]** box, and then click **[Next]**.

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

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

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

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

The settings take effect, and the NIB setup tool exits.

**11** Exit SmartNetMonitor for Admin.

**12** Turn the printer power off and on.

 **Note**

- To confirm that the printer is configured correctly, type as follows from 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 a Supervisor equivalent.

**2** Run the SmartNetMonitor for Admin.

**3** Click the [Group] menu and click [Open LAN] and select [IPX/SPX].

A list of printers appears.

 **Note**

- If you cannot identify which printer to configure from the list of printers, print Configuration Page from the printer and find the desired printer. For more information about printing Configuration Page, see [p.161 "Printing a Configuration Page"](#).
- If no printer name appears in the list, match the frame types of the IPX/SPX protocol between the computer and printer. Use the [Network] dialog box of Windows to change the frame type of the computer. For more information about changing the frame type of equipment, see "*Configuring the Printer for the Network*" in Administrator Reference 1.

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

**5** Click to select [Property Sheet] and click [OK].

**6** Click the [NetWare] tab, and make the following settings.

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

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, type 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 the NIB Setup Tool.

**8** Type "PCONSOLE" from the command prompt.

```
F :> PCONSOLE
```

**9** Create a print queue as follows.

 **Note**

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

**1** From the [Available Options] menu, select [Print Queue Information] and press [ENTER].

**2** Press [INSERT] and type a print queue name.

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

**10** Create a printer as follows.

**1** From the [Available Options] menu, select [Print Server Information] and press [ENTER].

**2** To create a new print server, press [INSERT] and type a print server name.

If you use an 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 the NIB Setup Tool. (Step **6**).





- 3 From the [Print Server Information] menu, select [Print Server Configuration].
- 4 From the [Print Server Configuration] menu, select [Printer Configuration].
- 5 Select the printer which is indicated as "Not Installed".

### Important

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

- 6 If you change the name of the printer, type a new name.

A name "Printer x" is assigned to the printer. x stands for the number of the selected printer.

- 7 As type, select [Remote Parallel, LPT1].

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

- 8 Press the [ESC] key, and 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], select [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, confirm that the queues are assigned.

- 12 Press the [ESC] key until "Exit?" appears, and select [Yes] to exit PCONSOLE.



**13** Start the print server by typing 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.



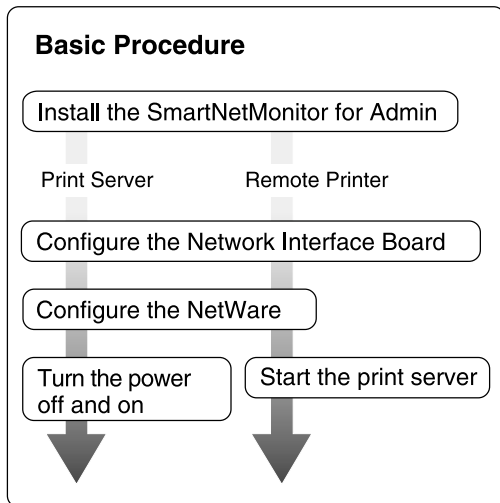


## NetWare 4.x, 5 - Advanced Settings

The actual procedures for configuring the printer differ depending on whether the Network Interface Board is configured as a print server or as a remote printer. This section describes how to configure it in the NetWare 4.x, 5 environment.

### ❖ To use NetWare 5

- If you use Pure IP, use the printer as a print server. You cannot use the printer as a remote printer when you use Pure IP.
- If you use Pure IP, configure the printer to use the TCP/IP protocol. For more information about how to make the settings, see "*Configuring the printer for the Network*" in Administrator Reference 1 that comes with this printer.





---

## Installing SmartNetMonitor for Admin

---

**1** Close 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 automatically work with certain OS settings. In this case, launch "INST-TOOL.EXE" located on the CD-ROM root directory.

**3** Follow the instructions on the screen.

**4** Select "Custom" installation and then click [Next].

**5** Remove the check mark from the RPCS Printer Driver and PCL 5c Printer Driver.

**6** Click to select [SmartNetMonitor for Admin], and then click [Install].


**7** Click [OK].

**8** Follow the instructions on the screen.

After installation is completed, see [p.45 "Setting Up as a Print Server"](#) when you use the printer as a print server.

See [p.47 "Setting Up as a Remote Printer"](#) when you use the printer as a remote printer.

 **Note**

- If you require restarting the computer after installation of SmartNetMonitor for Admin was completed, restart the computer and continue to configuration.
- 



---

## Setting Up as a Print Server

---

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

**2** Run SmartNetMonitor for Admin.

**3** Click the [Group] menu and click [Open LAN] and select [IPX/SPX] or [TCP/IP].

A list of printers appears

 **Note**

- If you use Pure IP, select [TCP/IP].
- If you cannot identify which printer to configure from the list of printers, print Configuration Page from the printer and find the desired printer. For more information about printing Configuration Page, see [p.161 "Printing a Configuration Page"](#).
- If no printer name appears in the list, match the frame types of the IPX/SPX protocol between the computer and printer. Use the [Network] dialog box of Windows to change the frame type of the computer. For more information about changing the frame type of equipment, see "*Configuring the Printer for the Network*" in Administrator Reference 1.

**4** Click to 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.55 "Using Pure IP in the NetWare 5 environment"](#)

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

**6** Type the device name into the [Device Name] box and comment into the [Comment] box as necessary, and then click[Next].



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

**8** Click to select **[NDS Mode]**, type the file server name into the **[File Server Name:]** box, the NDS tree name into the **[NDS Tree:]** box and the context into the **[NDS Context:]** box, and then click **[Next]**.

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

Clicking **[Browse]**, you can select a NDS context among those listed in the **[Browse]** dialog box.

As a context, object names are typed from a lower object and divided by a period. For example, if you want to create a print server into NET under DS, type "NET.DS".

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

- In the **[Print Server Name]** box, type the name of the NetWare print server within 47 characters.
- In the **[Printer Name]** box, type the name of the NetWare printer.
- In the **[Print Queue Name]** box, type the name of the print queue to be added to NetWare.
- In the **[Print Queue Volume]**, type the volume of print queue. As a volume, object names are typed 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 the NIB setup tool exits.

**11** Exit SmartNetMonitor for Admin.





**12** Turn the printer power off and on.

 **Note**

To confirm that the printer is configured correctly, type as follows from 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 environment

---

**1** Log on to the file server as an Admin or an Admin equivalent.

**2** Run SmartNetMonitor for Admin.

**3** Click [Property Sheet] and 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, type the name of the print server.

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

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



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

Clicking **[Browse]**, you can select a NDS tree and a NDS context among those listed in the **[Browse Context]** dialog box.

As a context, object names are typed from a lower object and divided by a period. For example, if you want to create a print server into NET under DS, type "NET.DS".



- 4 In the [Print Server Operation Mode] group, click [As Print Server].**
  - 5 Click [OK] to close the property sheet.**
  - 6 After a confirmation dialog box appears, click [OK].**
- 5 Exit SmartNetMonitor for Admin.**

After this step, go to step [12](#) on [p.53](#) “Setting Up as a Print Server”.





---

## Setting Up as a Remote Printer

---

- 1** Log on to the file server as an Admin or an Admin equivalent.
- 2** Run the SmartNetMonitor for Admin.
- 3** Click the **[Group]** menu and click **[Open LAN]** and select **[IPX/SPX]**.

A list of printers appears.

 **Note**

- If you cannot identify which printer to configure from the list of printers, print Configuration Page from the printer and find the desired printer. For more information about printing Configuration Page, see [p.161 "Printing a Configuration Page"](#).
  - If no printer name appears in the list, match the frame types of the IPX/SPX protocol between the computer and printer. Use the **[Network]** dialog box of Windows to change the frame type of the computer. For more information about changing the frame type of equipment, see "*Configuring the Printer for the Network*" in Administrator Reference 1.
- 4** Click to select the printer you want to configure, and then click **[NIB Setup Tool]** on the **[Tools]** menu.
  - 5** Click to select **[Property Sheet]** and click **[OK]**.
  - 6** Click the **[NetWare]** tab, and make the following settings.
    - 1** In the **[Print Server Name]** box, type the name of the print server.
    - 2** In the **[File Server Name]** box, type the name of the file server in which a print server is to be created.

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



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

Clicking [**Browse**], you can select a context among those listed in the [**Browse**] dialog box.

As an context, object names are typed from a lower level object and divided by a period. For example, if you want to create a print server into NET under DS, type "NET.DS".



- 4 In the [Print Server Operation Mode] group, click [As Remote Printer].**
- 5 In the [Remote Printer No.] box, type 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 the NIB Setup Tool.**

- 8 From Windows, run NW Admin.**

### Reference

For more information about NWAdmin, see the documentation that comes with the 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 click [Create] on the [Object] menu.**
- 2 In the [Class of new object] box, click "Print Queue", and click [OK].**

- ③ In the [Print Queue name] box, type the name of the print queue.
- ④ In the [Print Queue Volume] box, click [Browse] button.
- ⑤ In the [Available objects] box, click the volume in which the print queue is created, and 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 click [Create] in the [Object] menu.
- ② In the [Class of new object] box, click "Printer", and click [OK]. When you are using NetWare 5, click "Printer (Non NDPS)".
- ③ In the [Printer name] box, type the name of the printer.
- ④ Click [Define additional properties] to check a box, and click [Create].

**11** Assign print queues to the created printer as follows.

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

**12** Create a print server as follows.

- ① Select the context specified using the NIB Setup Tool (Step 6-1), and on the [Object] menu, click [Create].
- ② In the [Class of new object] box, click "Print Server", and click [OK]. When you are using NetWare 5, click "Print Sever (Non NDPS)".



3 In the [Print Server name] box, type the name of the print server.

 **Important**

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

4 Click [Define additional properties] to check a box, and click [Create].

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

1 Click [Assignments], and click [Add] in the [Assignments] group.

2 In the [Available objects] box, click the queue created in the step 10, and click [OK].

3 In the [Printers] group, click the printer assigned in step 2, and click [Printer Number].

4 Type the printer number and click [OK].

 **Important**

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

5 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 exiting it.

❖ **To exit**

```
CAREE: unload pserver
```

❖ **To start**

```
CAREE: load pserver print_server_name
```



## 4. 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.

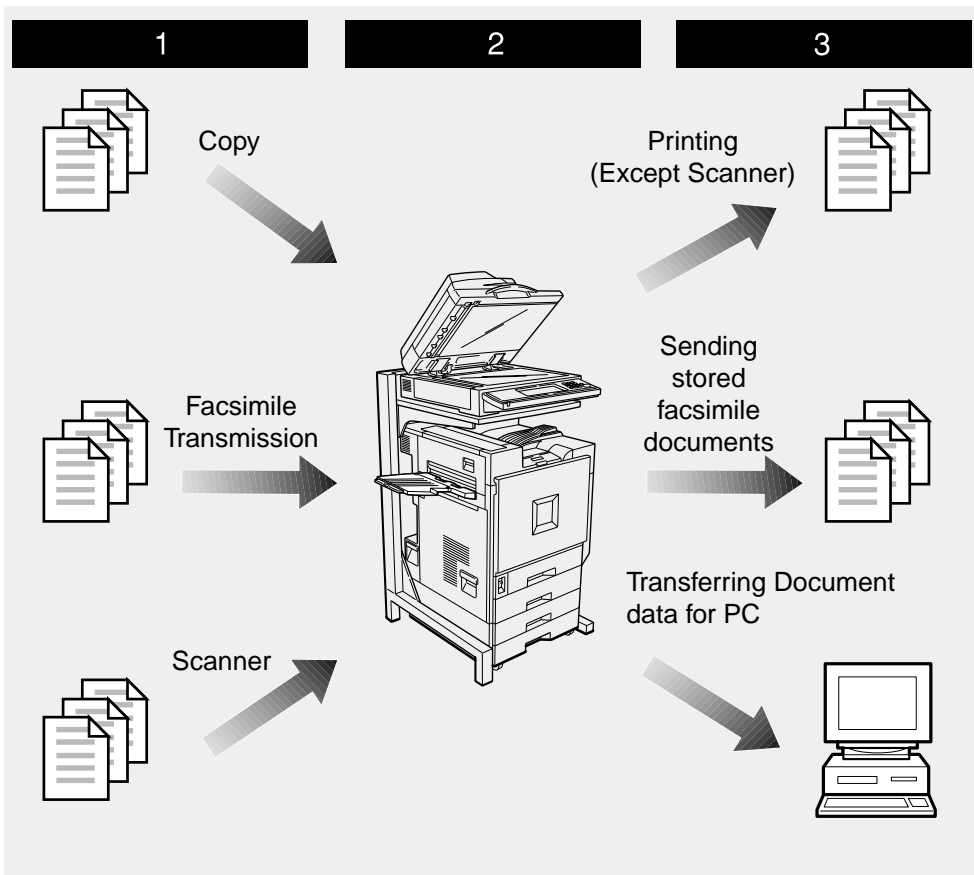
You can save the following:

- 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" in Addendum for Printer Client Reference.





- 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" in "Sending a Stored File" in <Advanced Features> of the Facsimile Reference.

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





## Features and Benefits

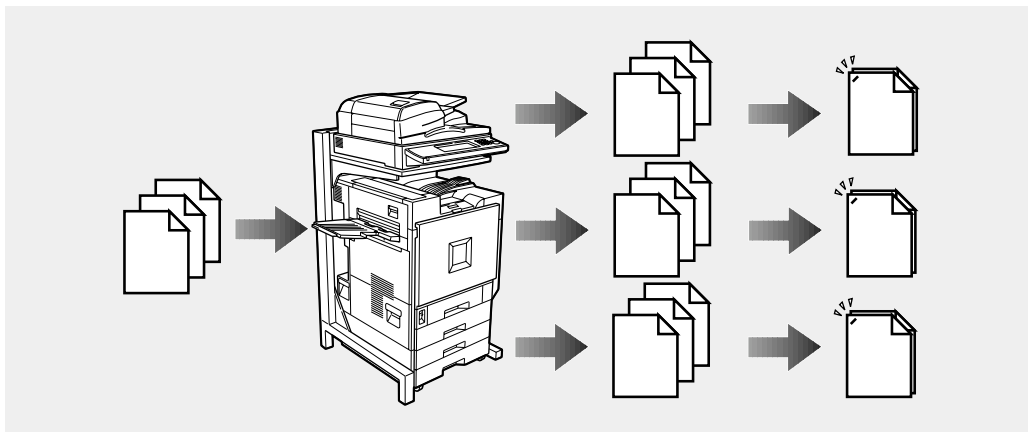
### On Demand Printing

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.



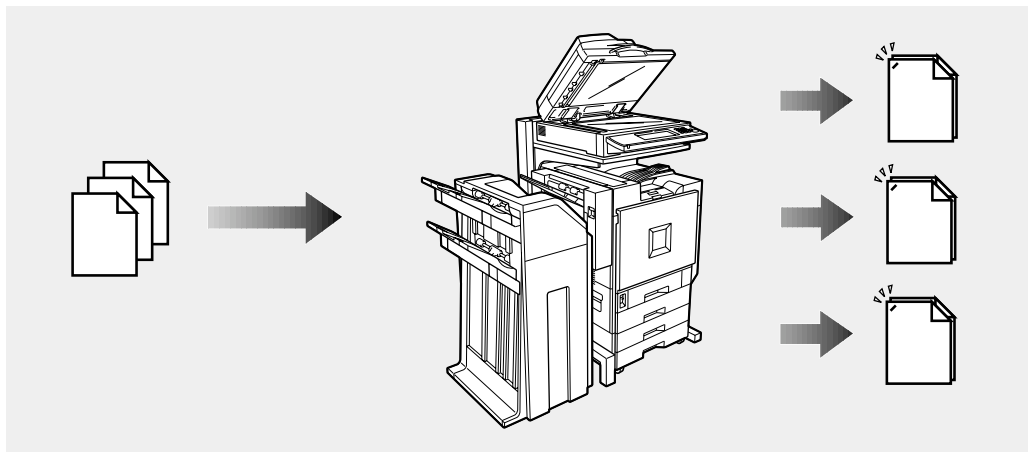
ZFOX010J



## ❖ 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

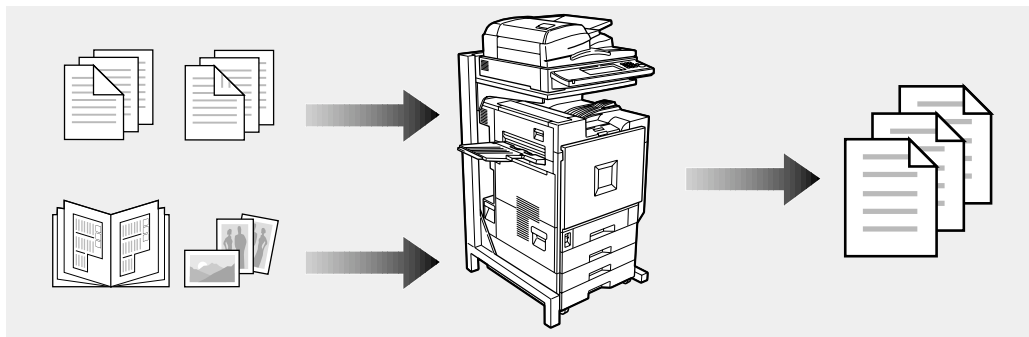




## ❖ With the Document Server

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

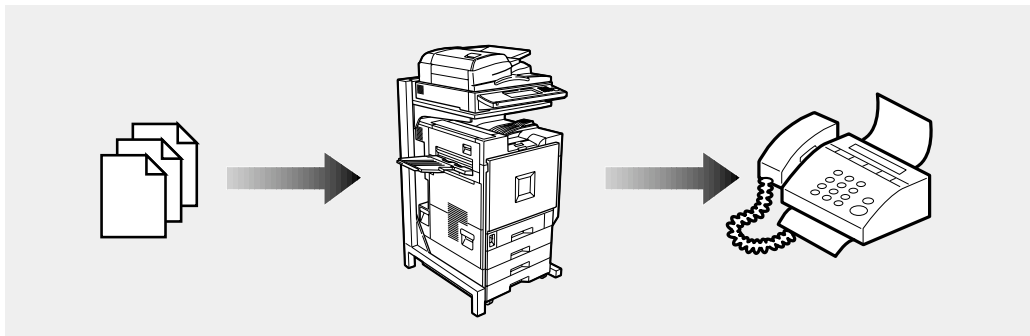
You can send a stored document repeatedly. For more information about sending a stored document repeatedly, see "Sending a Stored File" in the Facsimile Reference <Advanced Features>.

### ❖ 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



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## Operation from a Computer

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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

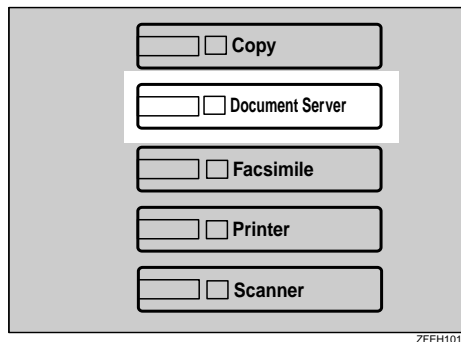
Storing documents using other than Document Server, see the manuals for each function.

### Note

- ❑ You can set whether to automatically delete documents stored in the Document Server after a set number of days. The factory default is set to delete after one day. To change the setting, see p.122 “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.

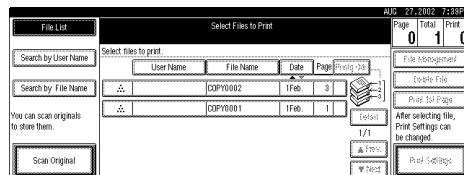
## Scanning in Document Server Mode

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



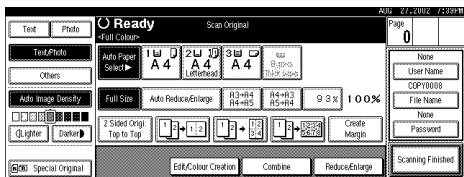
The “Select Files to Print” display appears.

**2** Press **[Scan Original]**.





The "Scan Original" display appears.



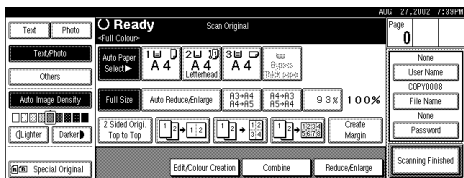
**3** Enter a file name, user name, or password if necessary.

**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 "Change File Name" display appears.

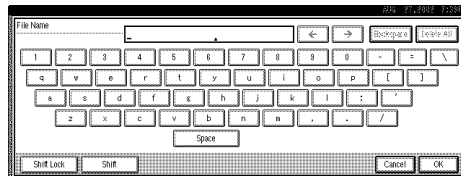
**2** Press [Delete All] to delete the old file name.



**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.149 "Entering Text"](#).

**4** Click [OK].

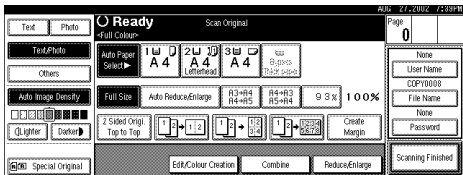






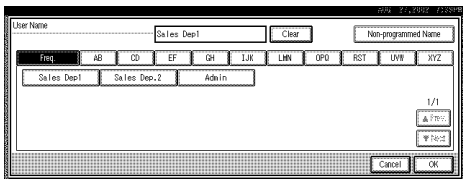
## To register or change the user name

- 1 Press [User Name].



If user names have already been registered, the "Change User Name" display appears. If user names have not been registered, go to step 3.

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



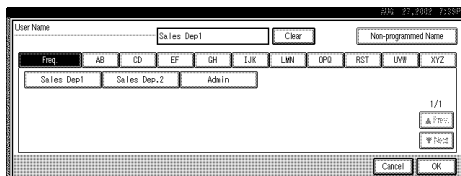
This has changed to the User Name that has been set.

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

### Reference

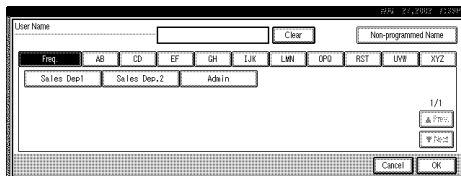
For more information about how to register users, see p.128 "To Register the New User Code".

- 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.



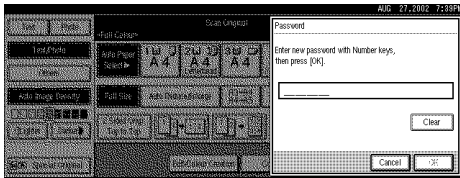
### Reference

For more information about how to enter characters, see p.149 "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.

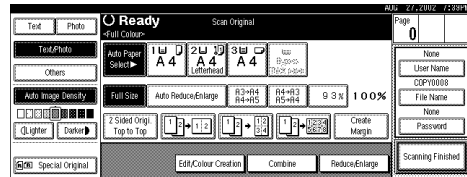
- 3 Press **[OK]** or the **[#]** key.

- 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 the 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**

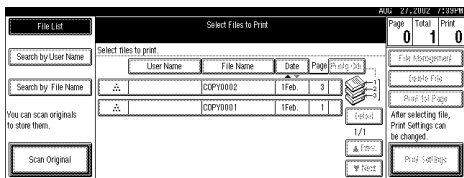
- To stop scanning, press the **[Clear/Stop]** key.
- To resume the paused scanning job, press **[Resume]** in the confirmation dialog box. To delete the saved images and cancel the job, press **[Cancel]**.
- When a password is stored, **1** appears on the left side of the file name.



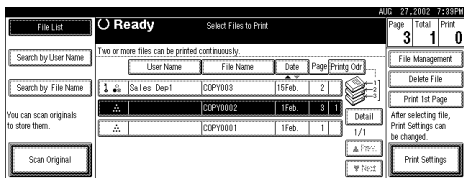
## 7 Press [Scanning Finished].

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.

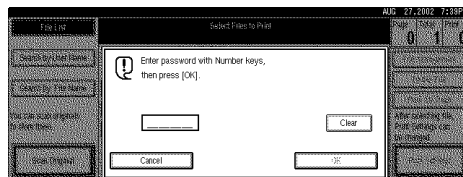


- If no password is set for the document, the line for the selected document is highlighted.

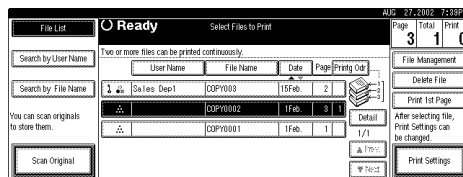


- If a password has already been set for the document, the password entry dialog box appears.

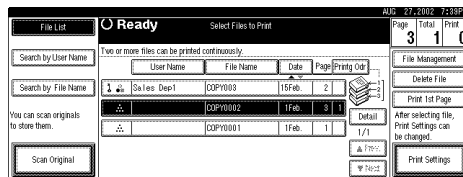
Enter the password, and then press [OK].



The line for the selected document is highlighted.

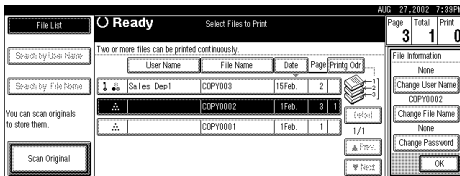


## 2 Press [File Management].





- 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.72 "To change the file name"](#).

For more information about changing the user name, see [p.73 "To register or change the user name"](#).

For more information about changing the password, see [p.74 "To set or change the password"](#).

- 5 Press [OK].





## Printing Saved Documents

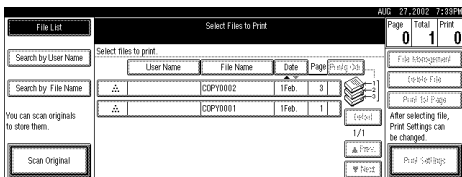
You can print any of the documents saved in the Document Server.

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

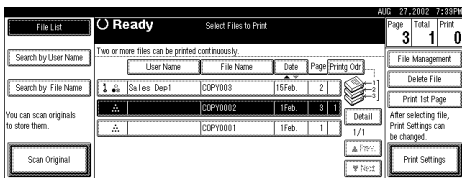
**1** Press the **[Document Server]** key.

The “Select Files to Print” display appears.

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

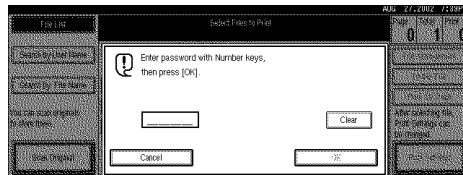


- If no password is set for the document, the line for the selected document is highlighted.

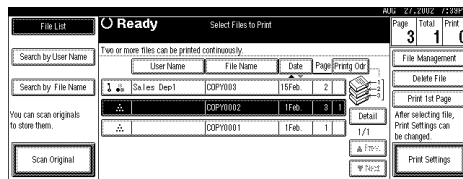


- If a password has been set for the document, the password entry dialog box appears.

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. ⇒ [p.87 “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.

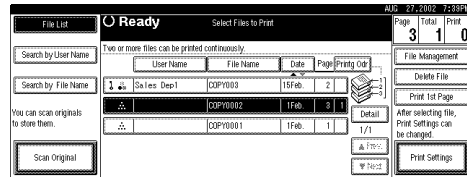
### 3 To print more than one document, repeat step 2 to select the desired documents in the order you want to print them out.

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

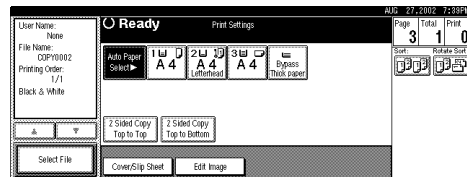
#### Note

- ❑ 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 the Copy Reference <Basic Features>.



## ❖ Binding format

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

## ❖ Cover handling

- Cover/Slip Sheet
- Edit

## ❖ Finish

- Sort
- Stack
- Staple

- 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. ⇒ [p.81 “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 **[Resume]** to resume it, or press **[Cancel]** to cancel it.



---

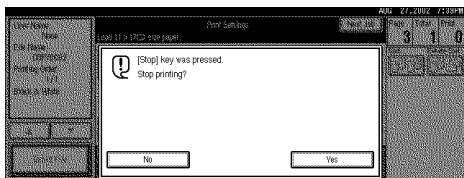
## Stopping printing

---

You can stop printing in progress.

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

The following confirmation dialog box appears.



**2** Press **[Yes]**.

The printing operation stops.

 **Note**

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

---

## Changing the number of copies during printing

---

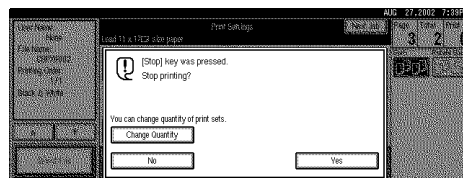
You can change the number of copies during printing.

 **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.

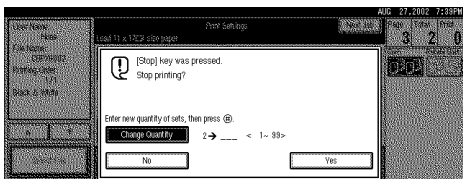


**2** Press **[Change Set Qty.]**.

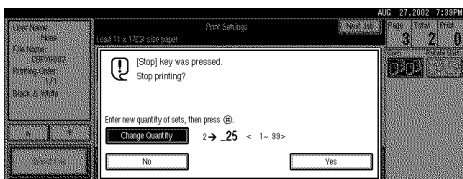




**3** Use the number keys to enter a new number of copies.



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



**5** Press [Print].  
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.

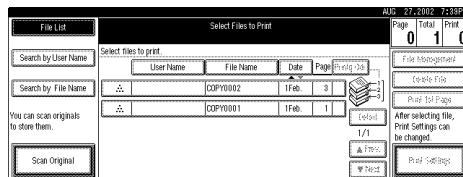
### Limitation

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

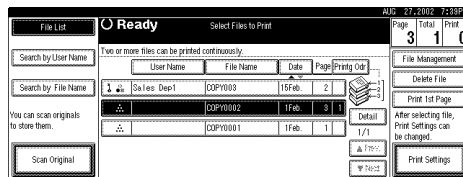
**1** Press the **[Document Server]** key.

The "Select File to Print" display appears.

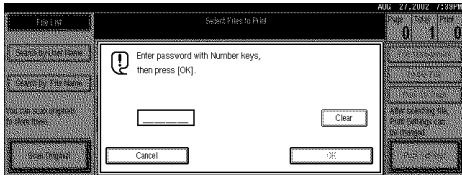
**2** Select the document to be printed.



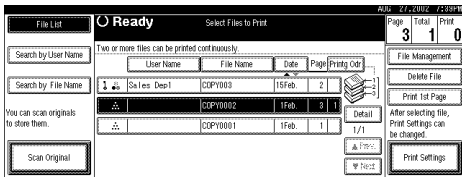
- If no password is set for the document, the line for the selected document is highlighted.



- 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.

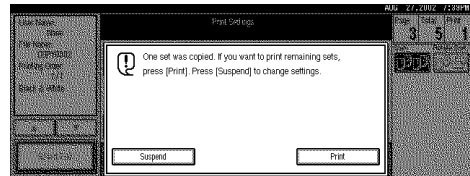


**Note**

- You can search for a desired document by user or file name by using **[Search by User Name]** or **[Search by File Name]**, respectively. → p.122 “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

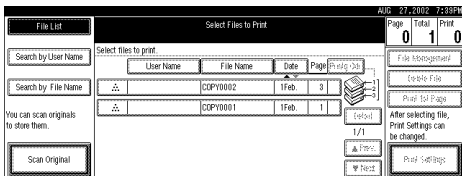
You can print the first page of the document selected in the “Select Files to Print” display to check the contents.

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

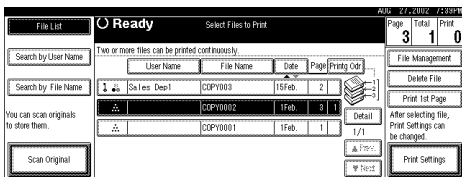
### 1 Press the [Document Server] key.

The "Select File to Print" display appears.

### 2 Select the document to be printed.

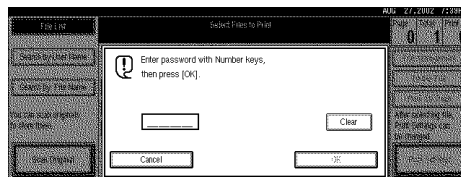


- If no password is set for the document, the line for the selected document is highlighted.

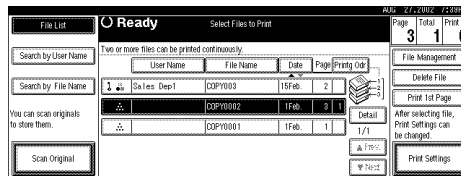


- If a password has been set for the document, the password entry dialog box appears.

Enter the password, and then press [OK].



The selected line is highlighted.



### Note

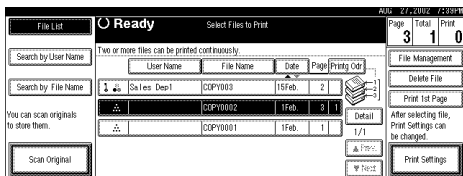
- ❑ You can search for a desired document by the user or file name, using [Search by User Name] or [Search by File Name], respectively. ⇒ p.122 “User Code Management”

**[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].]**

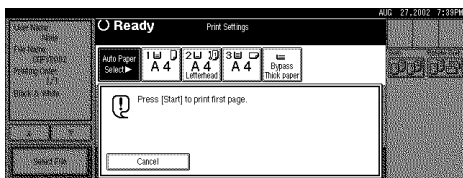
- ❑ You can scroll up or down the file names listed by using [Prev.] or [Next], respectively.
- ❑ To cancel a document selection, press the highlighted line for the selected document.



### 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

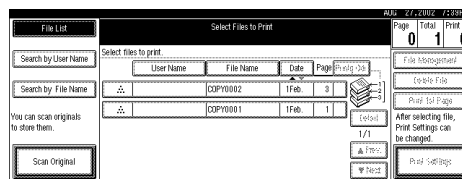
- You can delete all the saved documents at a time with the User Tools.

Follow these steps to delete saved documents.

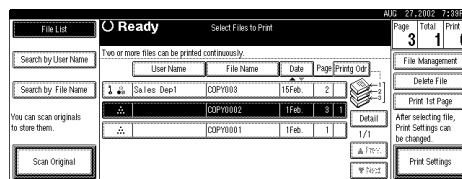
**1** Press the **[Document Server]** key.

The “Select Files to Print” display appears.

**2** Select the document to be deleted.

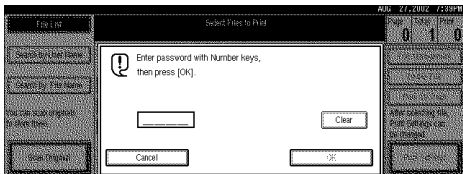


- If no password is set for the document, the line for the selected document is highlighted.

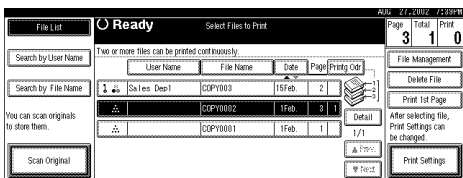




- If a password has been set for the document, the password entry dialog box appears. Enter the password, and then press **[OK]**.



The selected name is highlighted.



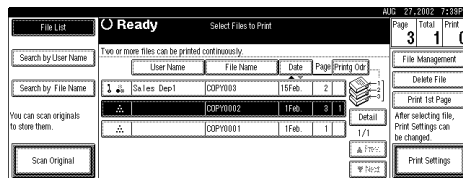
**Note**

- You can search for the document you desire by the file name or the user name. ⇒ [p.87 “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. ⇒ [p.83 “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.

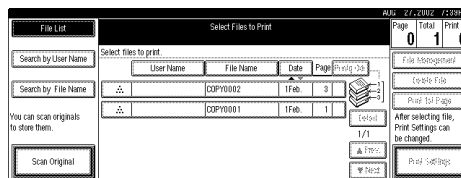
### ❖ Search by User Name

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

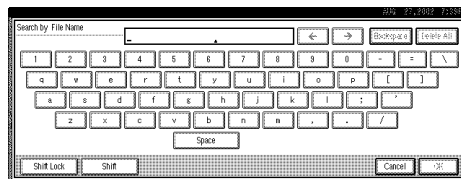
## To Search by File Name

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.

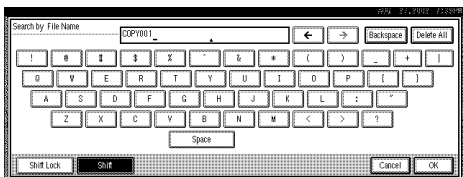


### Reference

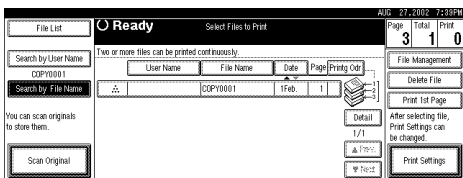
For details on entering characters, refer to [p.149 "Entering Text"](#).



## 4 Press [OK].



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



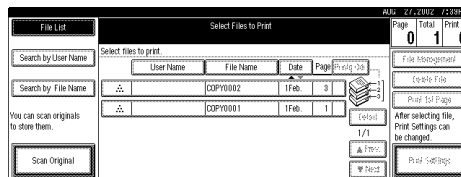
### Note

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

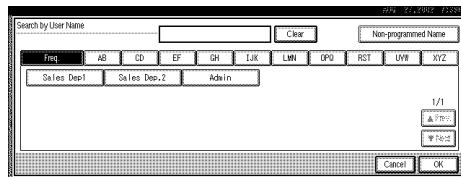
## To Search by User Name

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

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



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

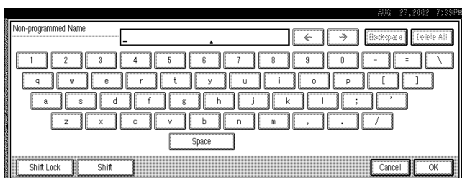


To specify an unregistered user name, follow the procedure below.





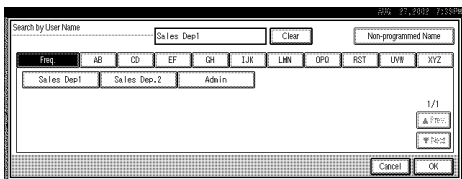
**4** To specify an unregistered user name, press [Non-programmed Name]. The entry dialog box below appears. Enter the unregistered user name in the entry dialog box, and then press [OK].



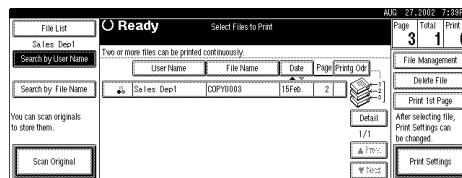
### Reference

For more information about how to enter characters, see [p.149 "Entering Text"](#).

**5** Press [OK].

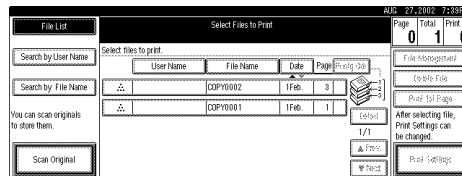


Only the files beginning with the name entered appear in the “Select Files to Print” display.



### Note

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



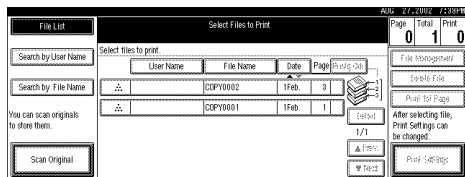


## To Check the Details of Stored Documents

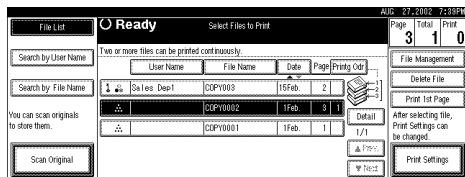
**1** Press the **[Document Server]** key.

The “Select Files to Print” display appears.

**2** Select the document for which you want detailed information.

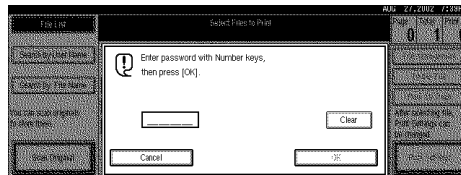


- If no password is set for the document, the line for the selected document is highlighted.

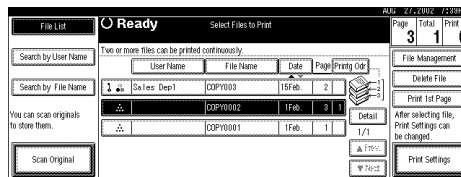


- If a password has been set for the document, the password entry dialog box appears.

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. → p.122 “User Code Management”

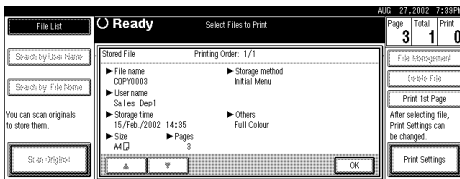
**[You can sort document names in the list by the user names, file names, or dates. To sort the documents, press **[User Name]**, **[File Name]**, or **[Date]**.]**

- ❑ 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.

## 5. 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.

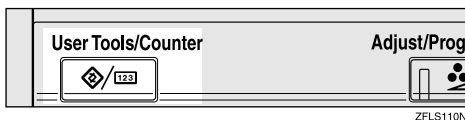
The selected key is highlighted.

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.

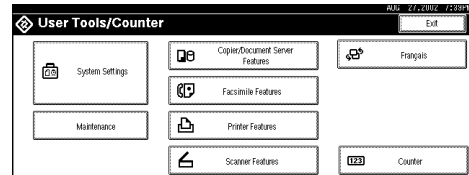
### Changing the Settings

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

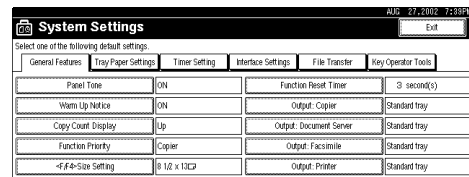


The User Tools Main Menu appears.

**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 normal the function display, press the **[User Tools/Counter]** key.

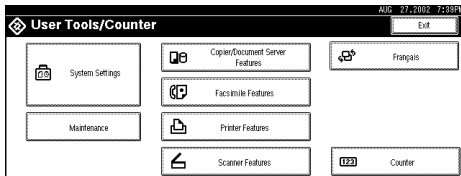


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## Exiting from the User Tools

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



Changing the User Tools is finished, and the machine is ready for copying or printing.

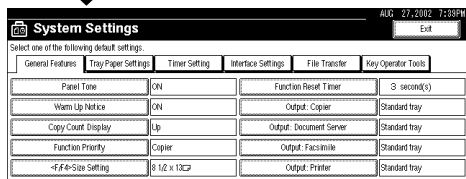
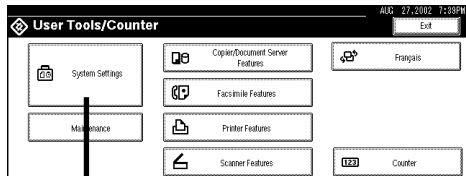
 **Note**

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



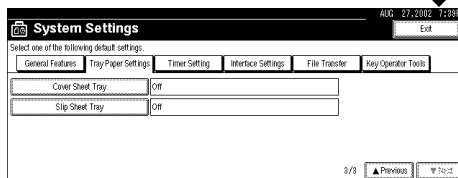
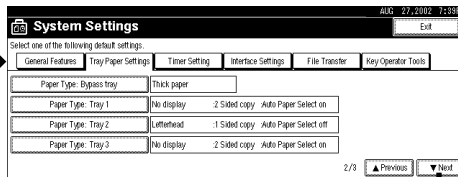
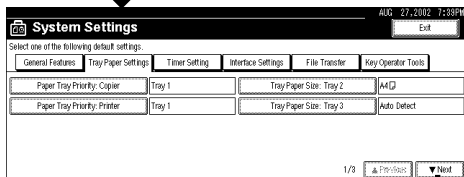
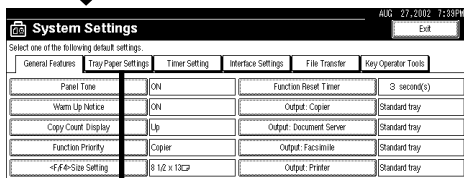
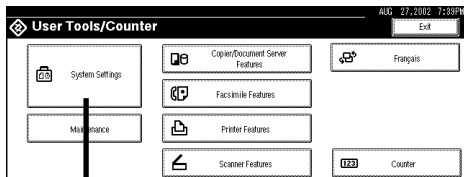
## User Tools Menu (System Settings)

❖ “General Features” ⇒ p.101



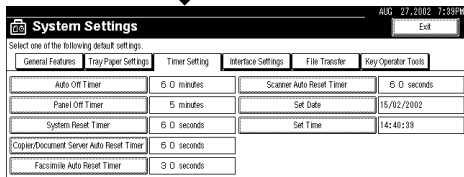
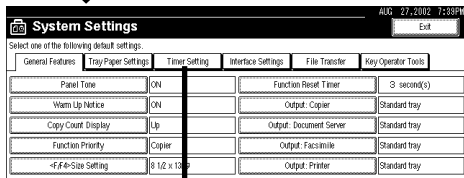
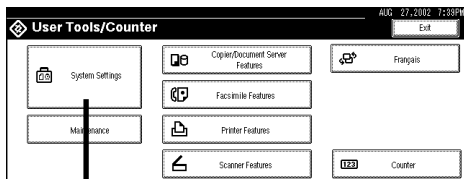


- ❖ “Tray Paper Settings <sup>1</sup>/<sub>3</sub>” ⇒ p.105, “Paper Size Settings <sup>2</sup>/<sub>3</sub>” ⇒ p.108, “Paper Size Settings <sup>3</sup>/<sub>3</sub>” ⇒ p.110





## ❖ “Timer Setting” ⇒ p.111







## ❖ “Interface Settings/Network 1/2—2/2” ⇒ p.114

Aug 27, 2002 7:38PM

**User Tools/Counter** Exit

System Settings	Copier/Document Server Features	Facsimile
Maintenance	Facsimile Features	Printer Features
	Scanner Features	Counter

Aug 27, 2002 7:38PM

**System Settings** Exit

Select one of the following default settings:

General Features	Tray/Paper Settings	Timer Setting	Interface Settings	File Transfer	Key-Operator Tools
Panel Tone	ON	Function Reset Timer	3 second(s)		
Warm Up Notice	ON	Output: Copier	Standard tray		
Copy Count Display	Off	Output: Document Server	Standard tray		
Function Priority	Copier	Output: Facsimile	Standard tray		
<F>-Size Setting	8 1/2 x 13	Output: Printer	Standard tray		

Aug 27, 2002 7:38PM

**System Settings** Exit

Select one of the following default settings:

General Features	Tray/Paper Settings	Timer Setting	Interface Settings	File Transfer	Key-Operator Tools
<b>Network</b> <span>Parallel Interface</span>					
IP Address		192.168.000.000		Access Mask	000.000.000.000
Sub-net Mask		255.255.255.000		Network Boot	NONE
Gateway Address		192.168.000.000		Effective Protocol	
Access Control		000.000.000.000		1/2	<span>Previous</span> <span>Next</span>

Aug 27, 2002 7:38PM

**System Settings** Exit

Select one of the following default settings:

General Features	Tray/Paper Settings	Timer Setting	Interface Settings	File Transfer	Key-Operator Tools
<b>Network</b> <span>Parallel Interface</span>					
NWFrame Type		Auto select			
Ethernet Speed		Auto select			
2/2 <span>Previous</span> <span>Next</span>					



## ❖ “Interface Settings/Parallel Interface” ⇒ p.117

AUG 27, 2002 7:38PM

**User Tools/Counter** Exit

System Settings	Copier/Document Server Features	Facsimile
Maintenance	Facsimile Features	Printer Features
	Scanner Features	Counter

AUG 27, 2002 7:38PM

**System Settings** Exit

Select one of the following default settings:

General Features	Tray/Paper Settings	Timer Setting	Interface Settings	File Transfer	Key-Operator Tools
Panel Tone	ON	Function Reset Timer	3 second(s)		
Warm Up Notice	ON	Output: Copier	Standard tray		
Copy Count Display	Off	Output: Document Server	Standard tray		
Function Priority	Copier	Output: Facsimile	Standard tray		
<F>-Size Setting	8 1/2 x 13	Output: Printer	Standard tray		

AUG 27, 2002 7:38PM

**System Settings** Exit

Select one of the following default settings:

General Features	Tray/Paper Settings	Timer Setting	Interface Settings	File Transfer	Key-Operator Tools
Network	Parallel Interface				
IP Address	192.168.000.000	Access Mask	000.000.000.000		
Sub-net Mask	255.255.255.000	Network Boot	NONE		
Gateway Address	192.168.000.000	Effective Protocol			
Access Control	000.000.000.000	1/2	▲ Protocol	▼ Next	

AUG 27, 2002 7:38PM

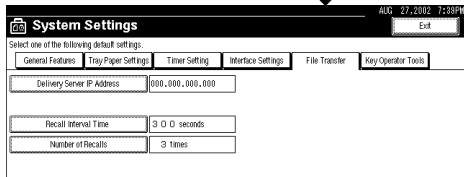
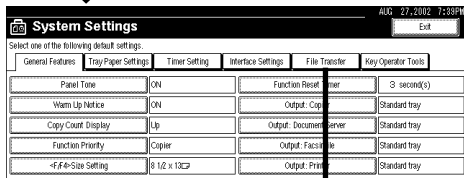
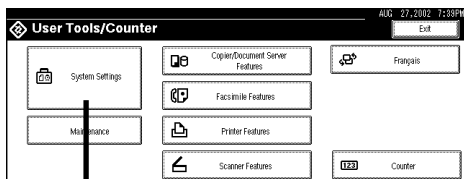
**System Settings** Exit

Select one of the following default settings:

General Features	Tray/Paper Settings	Timer Setting	Interface Settings	File Transfer	Key-Operator Tools
Network	Parallel Interface				
Parallel Timing	ACK outside	Bi-directional Communication	Yes		
Parallel Communication Speed	High speed	Signal Control	MB-acceptance priority		
Selection Signal Status	High				
Input Prime	Invalid				

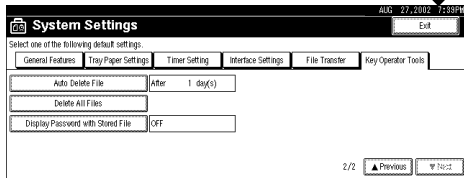
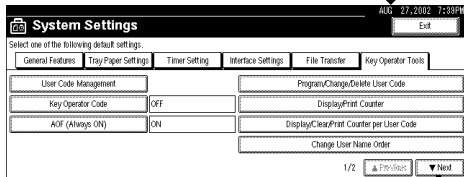
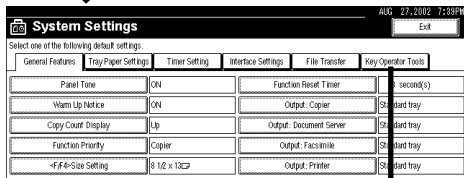
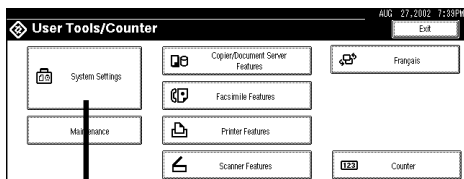


## ❖ “File Transfer” ⇒ p.119





## ❖ “Key Operator Tools” ⇒ p.122





## Settings You Can Change with the User Tools

### Reference

For how to access the User Tools, see [p.92 “Accessing the User Tools \(System Settings\)”](#).

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### General Features

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#### ❖ Panel Tone

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

##### Note

- Default: *ON*

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

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: 8<sup>1</sup>/<sub>2</sub>"×13", 8<sup>1</sup>/<sub>4</sub>"×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: 8<sup>1</sup>/<sub>2</sub>"×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.

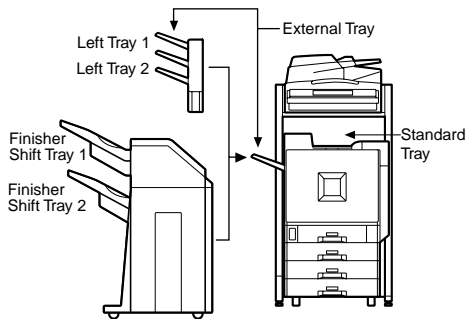
### **Note**

- 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.103 “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.103 “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.103 "Output: Copier"](#).
- If 2 Tray Finisher is installed and the Staple function is selected, the machine outputs the paper from Finisher Tray 2 regardless of the output setting.

---

## Tray Paper Settings <sup>1</sup>/<sub>3</sub>

---

### ❖ 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**

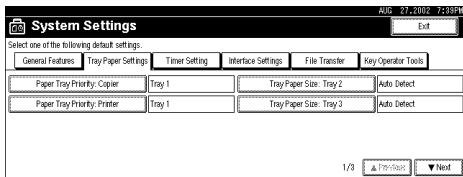
- Default: *Tray 1*
- When optional paper feed units are installed, Tray 3 and Tray 4 are displayed.
- When the optional 2000-sheet Large Capacity Tray is installed, Tray 3 is displayed.

**❖ Specifying the Priority Paper Tray**

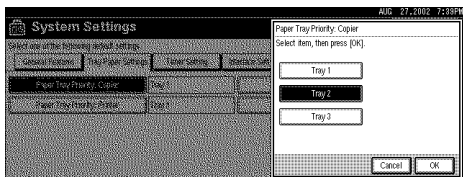
You can specify the Priority Paper Tray when copying or printing. The Priority Paper Tray is the tray selected when the machine is turned on and also the tray initially used by Auto Paper Select and Auto Tray Switching.

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]**.

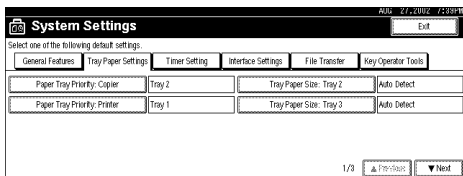


- ② Select the tray to be used as the Priority Paper Tray and then press **[OK]**.





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

Setup Guide "Loading Paper"





## 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 Size Settings <sup>2</sup>/<sub>3</sub>

---

### ❖ 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, Punched Paper, Label Paper, Bond Paper, Cardstock, 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, Punched Paper, Bond Paper, Cardstock

## Note

- Default:
  - Paper Type: *No display*
  - Copying Method: 2 Sided Copy
  - Apply Auto Paper Select: Yes
- A key mark is displayed next to the paper tray if No is selected.
- 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.



---

## Paper Size Settings <sup>3</sup>/<sub>3</sub>

---

### ❖ 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 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" in the Copy Reference <Advanced Features>.





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## Timer Setting

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When entering Set Time mode, if a key operator code has been set, you must enter the code (up to 8 digits). ⇒ p.127 “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

- The default setting is the same time interval as the Auto Off Timer default setting, so the Panel Off Timer is not used. This setting is only used if the Auto Off Timer setting is set to a longer interval than the Panel Off Timer setting.
- The 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.

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## Interface Settings/Network <sup>1</sup>/<sub>2</sub>—<sup>2</sup>/<sub>2</sub>

---

## ❖ IP Address

Before using this machine with the network environment, you must configure the IP address. When using the DHCP server, you do not need to set an IP address.

### Note

- Default: *011.022.033.044*
- Do not use an IP address that has been used for another machine. To get the addresses, contact your network administrator.
- Press the [←] or [→] key to move between each group of three numbers.
- Press [Clear] if you enter the wrong number.



## ❖ Sub-net Mask

A number used to mathematically "mask" or hide an IP address on the network by eliminating those parts of the address that are alike for all the machines on the network.

### 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.

## ❖ 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.

## ❖ Access Control and Access Mask

You can control the client access. Access control and Access mask should be set together.

- Access Control is the IP address to restrict the clients who use this machine.
- Access Mask is the IP address to check the IP address of Access Control when restricting the clients who access this machine.

### Note

- Default: *000.000.000.000*
- If you do not want to set any limitation for this machine, use the default settings.
- Press the [←] or [→] key to move between each group of three numbers.
- Press [Clear] if you enter the wrong number.





- If you set access control as 192.168.15.16, clients addresses might be assigned as follows:

Address for access mask	Client Address
000.000.000.000	xxx.xxx.xxx.xxx
255.000.000.000	192.xxx.xxx.xxx
255.255.000.000	192.168.xxx.xxx
255.255.255.000	192.168.15.xxx
255.255.255.255	192.168.15.16

## ❖ Network Boot

Select how to set an IP address from a client.

### Note

- Default: *NONE*
- For details about settings, consult 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*





## ❖ 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”, asynchronous functions 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*





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## File Transfer

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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*
- 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.





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## Key Operator Tools

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If an access code has been set, you cannot use the Key Operator Tools unless you enter the access code (max. 8 digits). ⇒ [p.123 “Key Operator Code”](#)

### Reference

For details about user codes, ⇒ [p.127 “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.127 “User Code”](#).

### Note

- You can select following functions and modes;
  - Copier  
Full color, Black & White, Single Color, Tow-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 codes 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 selected “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 selected “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 “All Initial Settings”, 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). ⇒ p.127 “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, 2-Sided Copy and Staple).
  - ① If you want to print Counter List, press **[Print Counter List]**, and then press start.

### 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.141 “Printing the Counter”](#), and about clearing the counter, see [p.145 “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 factory setting for the time interval is "1 Day". With this factory 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, click **[OK]**.

## ❖ 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 **[Yes]**. After checking your password, be sure to press **[No]**.



## 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.

#### Note

- Specify "ON" for "Copier" in the User Code Management settings (⇒ [p.122](#)).

### ❖ Document Server

Limits the users who can use the Document Server function and manages the use of each user code.

#### Note

- Specify "ON" for "Document Server" in the User Code Management settings (⇒ [p.122](#)).

### ❖ Facsimile

Limits the users who can use the Fax function and manages the use of each user code.

#### Note

- Specify "ON" for "Facsimile" in the User Code Management settings (⇒ [p.122](#)).

### ❖ Printer

Limits the users who can use the Printer function and manages the use of each user code.

#### Note

- Specify "ON" for "Printer" in the User Code Management settings (⇒ [p.122](#)).





## ❖ Scanner

Limits the users who can use the Scanner function and manages the use of each user code.

### Note

- Specify "ON" for "Scanner" in the User Code Management settings (⇒ p.122).

### Important

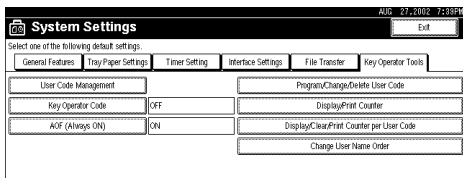
- The functions associated with each user code are the same. If you change or delete user codes, the management data and limits associated with that user code will become invalid.

---

## To Register the New User Code

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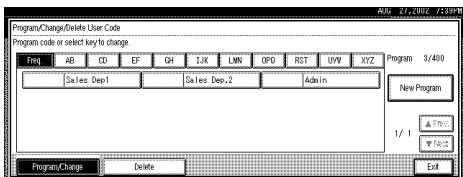
- 1** Press the **[User Tools/Counter]** key.
- 2** Press **[System Settings]**.
- 3** Press **[Key Operator Tools]**.
- 4** Press **[Program/Change/Delete User Code]**.



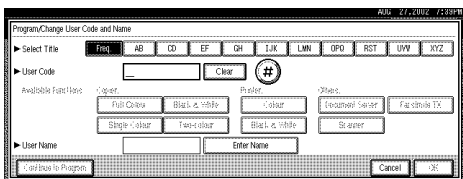




## 5 Press [New Program].



## 6 Press the key for the classification you want to use from “Title Select”.

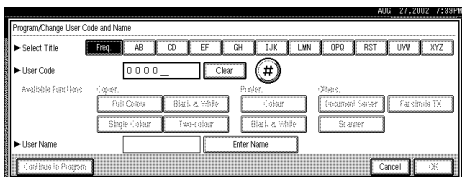


### Note

- 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”.



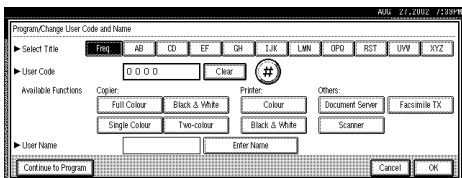
## 7 Enter the user code (8 digits max), and then press [#].



### 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”.



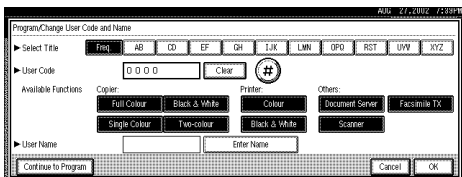
### Note

- 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]**
- Select “Yes” for each function of the user code. ⇒ p.122 “User Code Management”





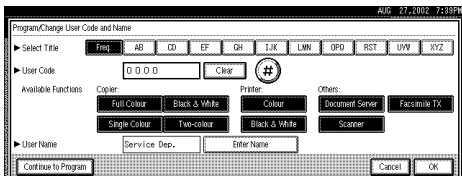
**9** Press [Enter Name], and then enter the name for the user code.



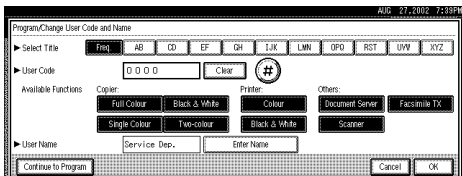
**Note**

- For details on how to enter the name for the user code, see [p.149 “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.61 “Document Server”](#).

**10** To continue registering user codes, press [Continue to Program], and then repeat the procedures from step **6**.

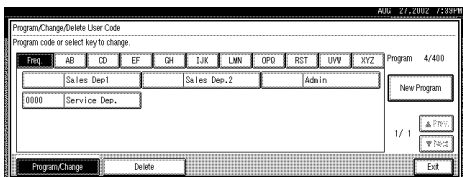


**11** Press [OK].





## 12 Press [Exit].



The display returns to the initial settings screen.

---

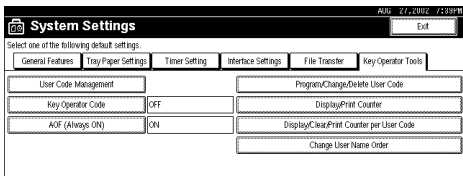
## Changing the User Code

---

### Important

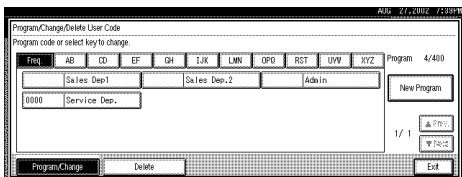
- This operation also deletes a user code registered for multiple functions. Current be specific using the deleted user code will be disabled.

- 1** Press the [User Tools/ Counter] key.
- 2** Press [System Settings].
- 3** Press [Key Operator Tools].
- 4** Press [Program/Change/Delete User Code].

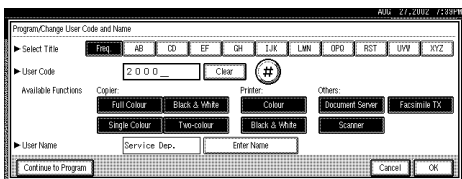




**5** Select the user code you want to change.



**6** Enter the new information for the item that you want to change.

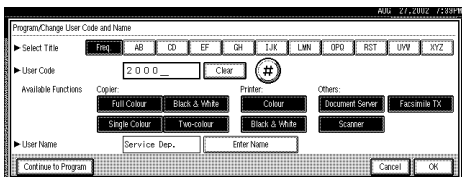


 **Note**

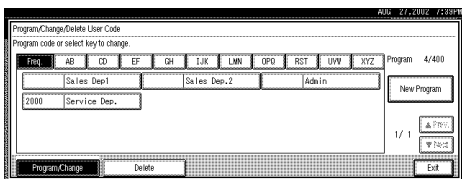
- To change a user code, select **[Clear]**, enter a new user code with the number keys, and then select **[#]**.
- For "Available Functions", highlighted buttons indicate the currently available functions. To disable an available function, select the corresponding button so that it is not highlighted. 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.149 "Entering Text"](#).



## 7 Press [OK].



## 8 Press [Exit].



The display returns to the initial settings screen.



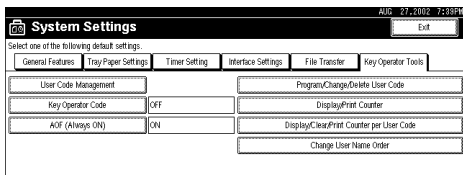
## Clearing the User Code

### Important

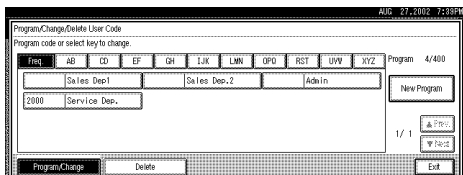
- This operation also deletes a user code registered for multiple functions. Current be specific using the deleted user code will be disabled.

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]**.

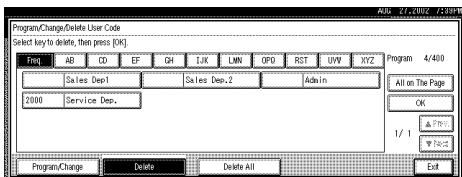


- 5** Press **[Delete]**.





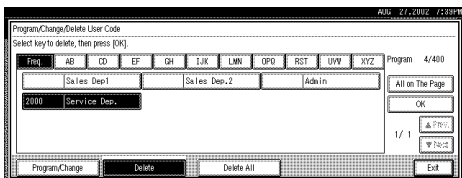
## 6 Select the user code you want to delete.



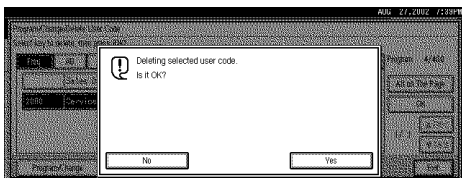
### Note

- 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

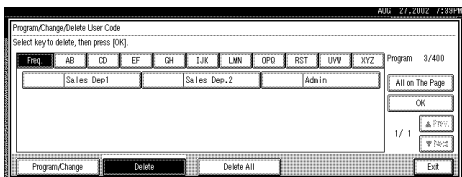
- If you don't want to quit deleting, press **[No]**.







## 9 Press [Exit].



The display returns to the initial settings screen.

---

## To delete all user codes

---

### Important

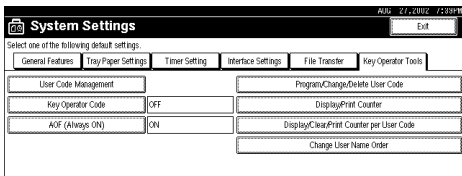
- Using [Print Counter], you can check the user code for each print job for the Copy/Document Server function, Printer function, and Facsimile function.

## 1 Press the [User Tools/ Counter] key.

## 2 Press [System Settings].

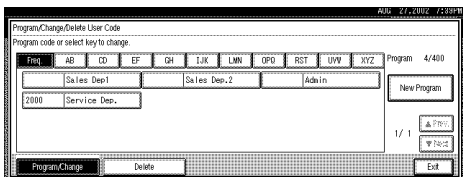
## 3 Press [Key Operator Tools].

## 4 Press [Program/Change/Delete User Code].

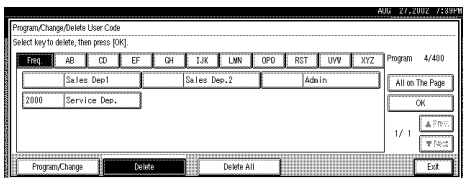




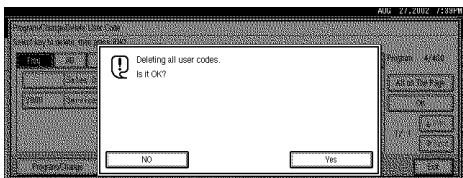
## 5 Press [Delete].



## 6 Press [Delete All].



## 7 Press [Yes] in the confirmation screen.



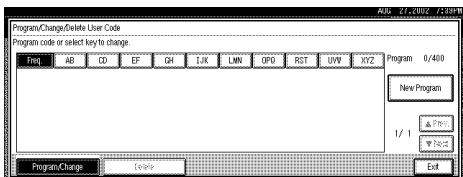
### Note

- If you don't 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.

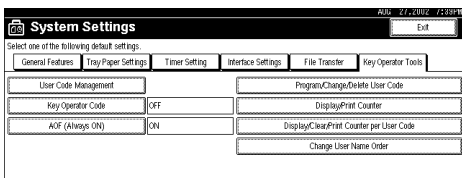
**2** Press **[System Settings]**.

**3** Press **[Key Operator Tools]**.





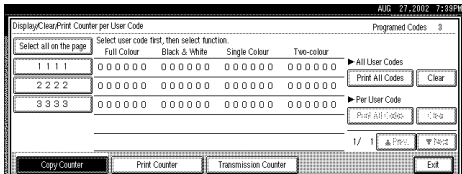
## 4 Press [Display/Clear/Print Counter per User Code].



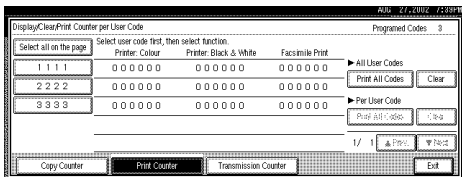
## 5 Press [Print Counter] or [Transmission Counter].

The individual function counters for each user code are displayed.

### ❖ Copy Counter

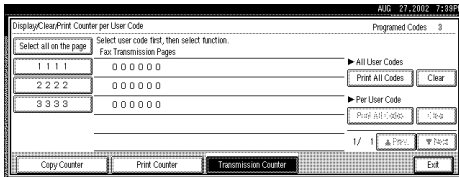


### ❖ Print Counter





## ❖ Transmission Counter



---

## 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.

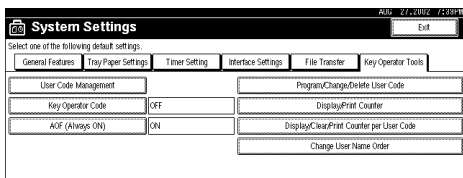
Using "Transmission Counter", you can print the list for number of pages sent by fax and the charge for each fax sent.

- 1** Press the **[User Tools/Counter]** key.
- 2** Press **[System Settings]**.
- 3** Press **[Key Operator Tools]**.

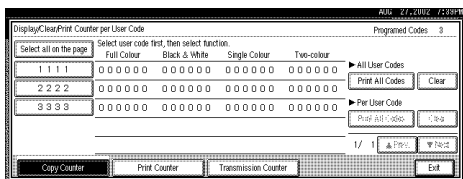




## 4 Press [Display/Clear/Printer Counter per User Code].



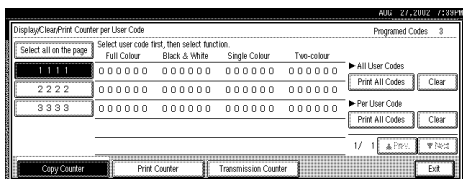
## 5 Select a User Code from the left side of the display.



### Note

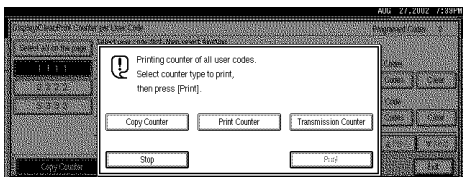
- Press [All on The Page] if you want to select all user codes on the page.

## 6 Press [Print All Codes] of Per User Code.





**7** Press either **[Copy Counter]**, **[Print Counter]** or **[Transmission Counter]**.



 **Note**

- You can select both **[Copy Counter]**, **[Print Counter]** and **[Transmission Counter]** at the same time.

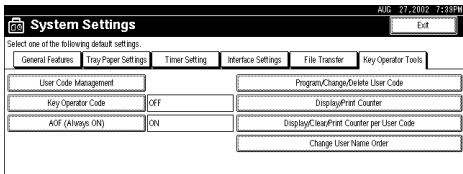
**8** Press **[Print]**.

---

## Printing the Number of Prints (Counter) for All User Codes

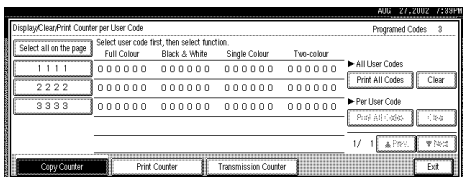
---

- 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]**.

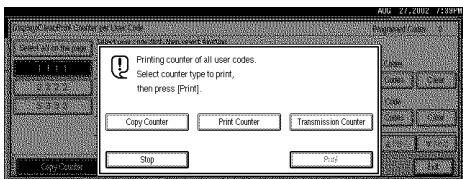




**5** Press **[Print All Codes]** of **All User Code**.



**6** Press either **[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]**.



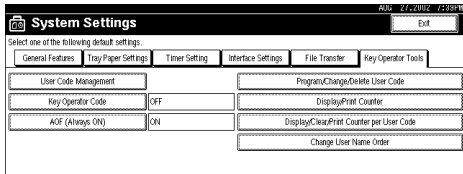




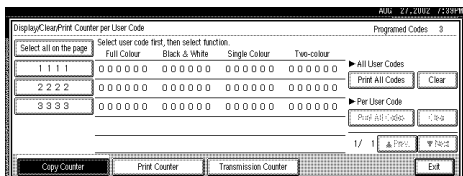
## Clearing the Counter

### 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.

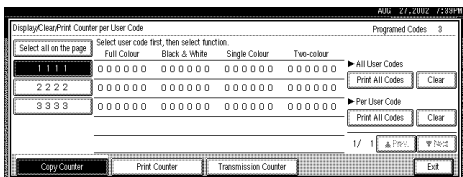


#### Note

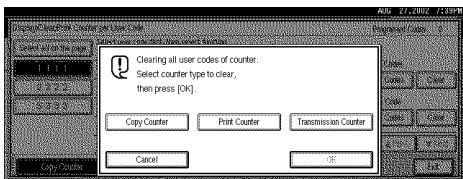
- Press [All on The Page] if you want to select all user codes on the page.



## 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 clear.

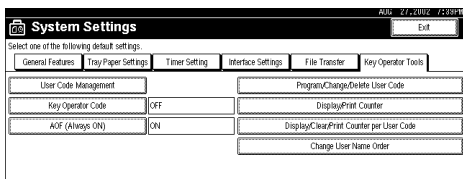
### Note

- If you want to cancel the operation, press [Cancel].

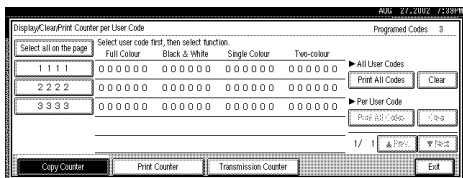


## Clearing the Number of Prints (Counter) for All User Codes

- 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]**.

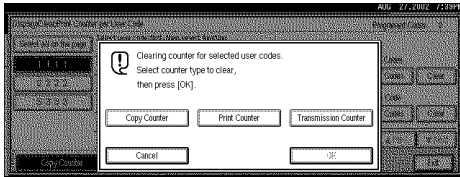


- 5** Press **[Clear]** for All User Codes.





**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 clear.

 **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 is shown at the position of the cursor. If there is a character at the cursor position, the entered character is shown before the character.

---

### Available Characters

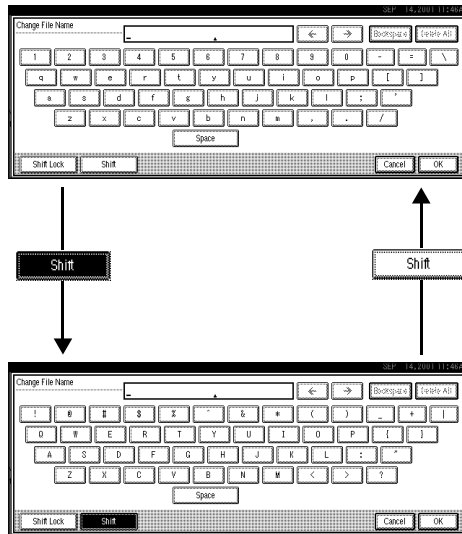
---

- Alphabetic characters  
ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz
- Symbols
- Numerals  
012345689





## Keys



### Note

- When entering uppercase or lowercase 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.





## 6. Printer Settings with the Control Panel

### Menu Chart

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

Category	Function menu
Paper Input ⇒ p.156	Bypass Paper Size
List/Test Print ⇒ p.160	Config. Page
	Menu List
	Color Demo Page
	PS Config. Page
	PCL Config. Page
	Hex Dump
Maintenance ⇒ p.166	Image Density
	4 Color Graphic Mode
	Menu Protect





Category	Function menu	
System ⇒ p.168	Misfed Recovery	
	Print Error Report	
	Auto Continue	
	Memory Overflow	
	Sub Paper Size	
	Page Size	
	Duplex	
	Job Separation	
	Resolution	PCL
		PS
	Toner Saving	
B&W Page Detect		
Host Interface ⇒ p.174	I/O Buffer	
	I/O Timeout	
PCL Menu ⇒ p.176	Orientation	
	Form Lines	
	Font Source	
	Font Number	
	Point Size	
	Font Pitch	
	Symbol Set	



## 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 set the paper size set to the Bypass Tray in the Paper Input menu.

There is 1 menu item in the "Paper Input" menu.

- Bypass Size

### Reference

For more information about loading paper in the tray, see Maintenance Guide 2.

---

## Paper Input Parameter

---

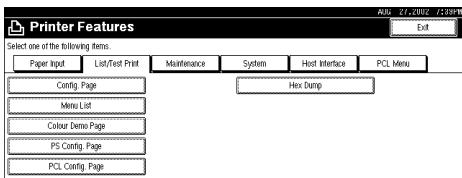
Menu	Description
Bypass Paper Size	The paper size for the bypass tray. For more information about paper sizes that can be set in the bypass tray, see " <i>Paper and Other Media</i> " in Maintenance Guide 2.



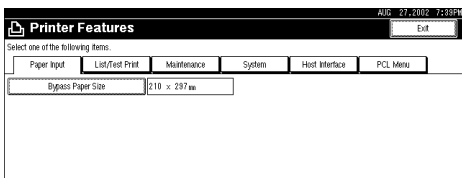
## Specifying a custom paper size

To use paper of a custom size, follow the procedure below to specify the custom paper size.

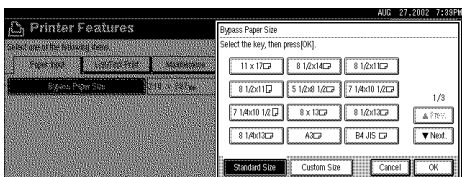
- 1** Press the **[User Tools/Counter]** key.
- 2** Press **[Printer Features]**.
- 3** Press **[Paper Input]**.



- 4** Press **[Bypass Paper Size]**.



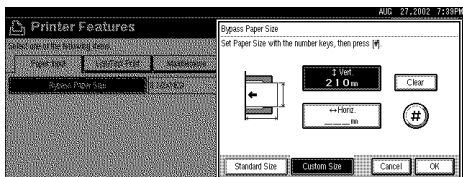
- 5** Press **[Custom Size]**.





## 6 Enter the paper size.

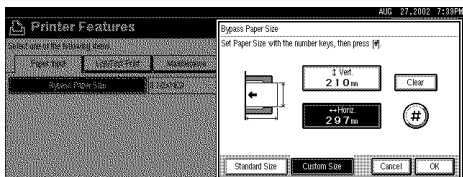
- 1 Enter the vertical size of the paper in [Vert.] with number key, and then press [#].



### 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 [#].



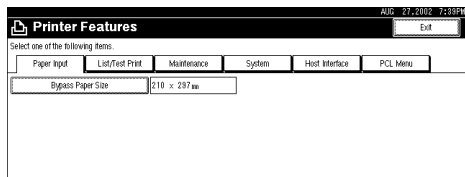
### Note

- 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 is shown.



## List/Test Print Menu

You can print the current file list about the print settings and the printing environment in the List/Test Print menu. You can also print and confirm the font types and all the printable letters.

There are 6 menu items in 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 current configuration of the printer. See <a href="#">p.161 "Printing a Configuration Page"</a> .
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 the installed PS Fonts.
PCL Config. Page	You can print the current configuration of the PCL.
Hex Dump	You can print the Hex Dump.





## Printing a Configuration Page

This section describes the printing procedure of “Configuration Page”. The basic printing method is the same for printing other lists.

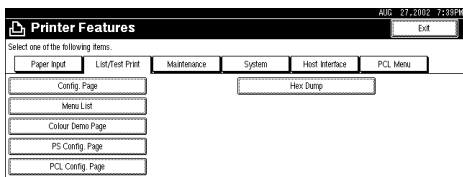
### Important

- The configuration page is printed in A4 or Letter (8 1/2 × 11). Set A4 or Letter (8 1/2 × 11) in the input paper tray or the Bypass Tray.

### Reference

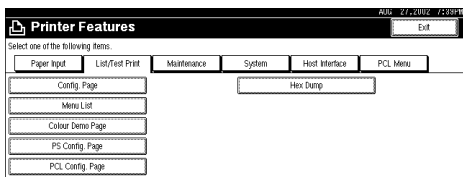
For more information, see [p.163 “Interpreting the Configuration Page”](#).

- 1** Press the **[User Tools/Counter]** key.
- 2** Press **[Printer Features]**.
- 3** Press **[List/Test Print]**.

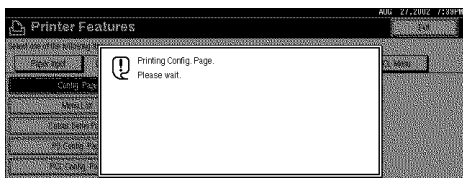




## 4 Press [Config. Page].



In a short time, the printing a configuration page will start.





---

## Interpreting the Configuration Page

---

---

### System Reference

---

- ❖ **Unit Number**  
Shows the serial number assigned to the board by its manufacturer.
- ❖ **Firmware Version**  
Shows the version number of the printer controller firmware.
- ❖ **System Version**  
Shows the system version of the machine.
- ❖ **NIB Version**  
Shows the version number of the Network Interface Board.
- ❖ **IEEE 1394**  
Shows "Installed" when the IEEE 1394 Interface Unit Type 1045 is installed properly.
- ❖ **Accounting Module**  
Shows "Installed" when the User Account Enhance Unit TypeB is installed properly.
- ❖ **Printer Language**  
Shows the version number of the printer language.
- ❖ **Options**  
Shows the options that you installed.





## ❖ Pages Printed

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

## ❖ Engine Version

Shows the version number of the printer engine.

## ❖ Panel Version

Shows the panel version of the machine.

## ❖ Total Memory

Shows the total amount of memory (SDRAM) installed on the printer.

## ❖ Hard Disk Drive

Shows "Installed" when the Printer Hard Desk Drive is installed properly.

---

## Paper Input

---

Shows the settings made under the "Paper Input" menu.

### Reference

For more information, see [p.156 "Paper Input Menu"](#).

---


## System

---

Shows the settings made under the "System" menu.

### Reference

For more information, see [p.168 "System Menu"](#).





---

## PCL Menu

---

Shows the settings made under the "PCL Menu".



### Reference

For more information, see [p.176 "PCL Menu"](#).

---

## Host Interface

---

Shows 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 "Host Interface" menu, see [p.174 "Host Interface Menu"](#).

---

## Error Log

---

Shows the log of printer errors.





## Maintenance Menu


There are 3 menu items in the "Maintenance" menu.

- Image Density
- 4 Color Graphic Mode
- Menu Protect

---

### Maintenance Menu Parameters

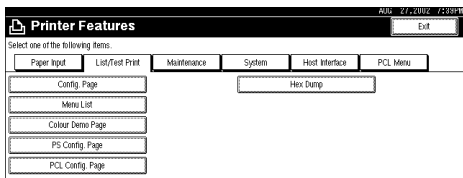
---

Menu	Description
Image Density	You can select the print image density for each color. -3 to +3
4 Color Graphic Mode	You can select 4 color graphic mode. <ul style="list-style-type: none"><li>• Photo Priority</li><li>• Text Priority</li></ul>
Menu Protect	You can protect menu settings against accidental changes. It makes it impossible to change the menu settings you make with the normal procedure unless you perform the required key operation.⇒ p.123 “Key Operator Code” <ul style="list-style-type: none"><li>• Off</li><li>• Level 1</li><li>• Level 2</li></ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p>

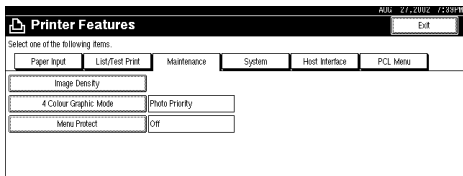


## Changing the Maintenance Menu

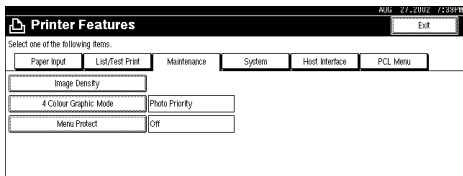
- 1** Press the [User Tools/Counter] key.
- 2** Press [Printer Features].
- 3** Press [Maintenance].



- 4** Press [4 Color Graphic Mode].



- 5** Select item that you want to specify, and then press [OK].





## System Menu

You can make settings that are related to the basic printing operation in the System Settings. You can use the printer as the factory default settings or change the settings to suit your printing environment. The changed settings in the System Settings is saved even the printer's power is turned off.




There are 11 menu items in the "System" menu.

- MisfeedRecovery
- Print Error Report
- Auto Continue
- Memory Overflow
- Sub Paper Size
- Page Size
- Duplex
- Job Separation
- Resolution
- Toner Saving
- B&W Page Detect










## System Parameters

Menu	Description
Misfeed Recovery	<p>You can store data for the case of paper misfeeds while printing.</p> <ul style="list-style-type: none"><li>• On</li><li>• Off</li></ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: On</p>
Print Error Report	<p>You can select whether or not to have a error report printed when a printer error or memory error occurs.</p> <ul style="list-style-type: none"><li>• On</li><li>• Off</li></ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p>
Auto Continue	<p>You can set printing operation when the indicated paper size or paper type by the printer driver is not found.</p> <ul style="list-style-type: none"><li>• Off</li><li>• 0 minute</li><li>• 1 minute</li><li>• 5 minutes</li><li>• 10 minutes</li><li>• 15 minutes</li></ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p>





Menu	Description
Memory Overflow	<p>You can set printing operation when transmitted data is too large to process due to memory overflow.</p> <ul style="list-style-type: none"><li>• Not Print</li><li>• Error Report</li></ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Not Print</p>
Sub Paper Size	<p>You can enable the Sub Paper Size feature. When you select "Auto", the printer substitutes the paper of a certain size which is to be an alternative if the paper currently specified is not loaded. When 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"><li>• Off</li><li>• Auto</li></ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p>
Page Size	<p>You can specify the default paper size.</p> <p>11 × 17, 8 1/2 × 14, 11 × 8 1/2, 5 1/2 × 8 1/2, 7 1/4 × 10 1/2, 8 × 13, 8 1/2 × 13, 8 1/4 × 13, A3, B4, A4, B5, A5, A6, 8K, 16K, 4 1/8 × 9 1/2, 3 7/8 × 7 1/2, C5 Env, C6 Env, DL, Custom Size</p>



Menu	Description
Duplex	<p>You can select whether you want to print on both sides of each page.</p> <ul style="list-style-type: none"><li>• Off</li><li>• Short Edge Bind</li><li>• Long Edge Bind</li></ul> <p> <b>Note</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> Default: Off</li><li><input type="checkbox"/> This menu appears only when the optional Duplex Unit is installed.</li></ul>
Job Separation	<p>You can set whether to separate output trays and output alternately by each job.</p> <ul style="list-style-type: none"><li>• Off</li><li>• On</li></ul> <p> <b>Note</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> Default: Off</li><li><input type="checkbox"/> This menu appears only when the optional 2 Tray Finisher is installed.</li></ul>
Resolution	<p>You can set the print resolution in dots per inch.</p> <ul style="list-style-type: none"><li>❖ <b>PCL</b> 300 dpi, 600 dpi</li><li>❖ <b>PS</b> 600 dpi, 1200 x 600 dpi, 1200 x 600 dpi</li></ul> <p> <b>Note</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> Default: PCL 600 dpi, PS 1200 x 600 dpi</li></ul>



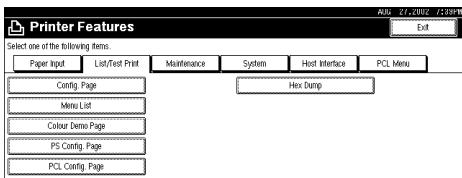
Menu	Description
Toner Saving	<p>You can select whether or not to enable "Toner Saving".</p> <ul style="list-style-type: none"><li>• Off</li><li>• On</li></ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p>
B&W Page Detect	<p>You can specify whether the Black &amp; White Page Detect feature is enabled.</p> <p>Even if color is specified for the printer driver Color Mode, every page will be printed in Black and White Mode if the print job is black and white. In this case, the consumables needed in the Color Mode will not be used.</p> <ul style="list-style-type: none"><li>• Off</li><li>• On</li></ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: On</p> <p><input type="checkbox"/> If the print job contains a color page, the remaining pages will be printed in the Color Mode even if some or all of them are black and white.</p> <p><input type="checkbox"/> If the first page of the print job is color and the remaining pages are black and white, the whole print job will be printed in the Color Mode.</p> <p><input type="checkbox"/> Depending on the kinds of data, the print job may not be done properly even if the function is specified.</p>



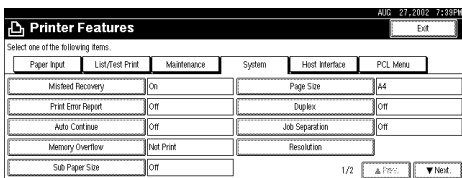
## Changing the System Menu

The following examples changing the settings for "Misfeed Recovery".

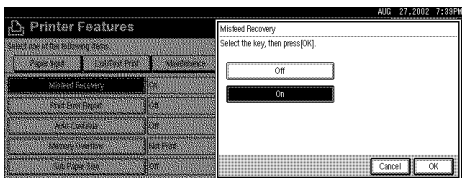
- 1** Press the **[User Tools/Counter]** key.
- 2** Press **[Printer Features]**.
- 3** Press **[System]**.



- 4** Press **[Misfeed Recovery]**.



- 5** Select item that you want to specify, and then press **[OK]**.





## Host Interface Menu



There are 2 menu items in the "Host Interface" menu.

- I/O Buffer
- I/O Timeout

---

### Host Interface Parameters

---

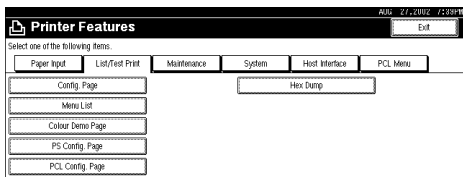
Menu	Description
I/O Buffer	<p>You can set the size of the I/O Buffer. Normally it is not necessary to change this setting.</p> <p>128 KB, 256 KB, 512 KB</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 128 KB</p>
I/O Timeout	<p>You can set how many seconds the printer should wait before ending a print job. If data from other port often appears in the middle of the print job, you should increase the timeout value.</p> <p>10 seconds, 15 seconds, 20 seconds, 25 seconds, 60 seconds</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 15 seconds</p>



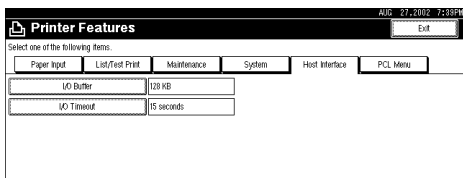
## Changing the Host Interface Menu

The following example describes changing the setting for "I/O Timeout".

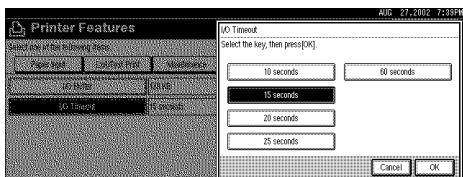
- 1** Press the **[User Tools/Counter]** key.
- 2** Press **[Printer Features]**.
- 3** Press **[Host Interface]**.



- 4** Press **[I/O Timeout]**.



- 5** Select item that you want to specify, and then press **[OK]**.





## PCL Menu



There are 7 menu items in the "PCL Menu".

- Orientation
- Form Lines
- Font Source
- Font Number
- Point Size
- Font Pitch
- Symbol Set

---





## PCL Parameters

---


Menu	Description
Orientation	You can set the page orientation. <ul style="list-style-type: none"><li>• Portrait</li><li>• Landscape</li></ul>  <b>Note</b> <input type="checkbox"/> Default: Portrait
Form Lines	You can set the number of lines per page. 5-128  <b>Note</b> <input type="checkbox"/> Default: 64 (Metric version), 60 (Inch version)





Menu	Description
Font Source	<p>You can set the location of the default font.</p> <ul style="list-style-type: none"><li>• Resident</li><li>• RAM</li><li>• HDD</li></ul> <p> <b>Note</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> Default: Resident</li><li><input type="checkbox"/> You can select only fonts downloaded to printer RAM or HDD. RAM or HDD will not appear when no font is downloaded.</li></ul>
Font Number	<p>You can set the ID of the default font you want to use.</p> <ul style="list-style-type: none"><li>• 0 to 50</li></ul> <p> <b>Note</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> Default: 0</li></ul>
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> <b>Note</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> Default: 12.00</li><li><input type="checkbox"/> This setting is effective only for a variable-space (proportional) font.</li></ul>
Font Pitch	<p>You can set the number of characters per inch you want to use for the default font. 0.44 to 99.99 by 0.01</p> <p> <b>Note</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> Default: 10.00</li><li><input type="checkbox"/> This setting is effective only for a fixed-space (proportional) font.</li></ul>



Menu	Description
Symbol Set	<p>You can specify the set of print characters for the default font. The 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> <b>Note</b></p> <p><input type="checkbox"/> Default: Roman-8</p>

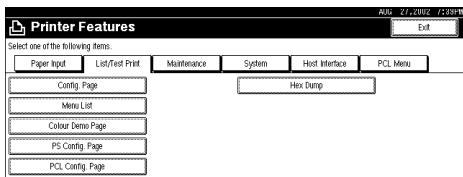
---

## Changing the PCL Menu

---

The following example describes changing the setting for "Orientation".

- 1** Press the **[User Tools/Counter]** key.
- 2** Press **[Printer Features]**.
- 3** Press **[PCL Menu]**.





## 4 Press [Orientation].

**Printer Features** Alt: F1, Ctrl: F12, F12345  
Exit

Select one of the following items:

Paper Input	List/Test Print	Maintenance	System	Host Interface	PCL Menu
Orientation	Portrait	Font Pitch	10.00		
Form Lines	84	Symbol Set	Roman-8		
Font Source	Resident				
Font Number	0				
Point Size	12.00				

## 5 Select item that you want to specify, and then press [OK].

**Printer Features** Alt: F1, Ctrl: F12, F12345

Select one of the following items:

Paper Input	List/Test Print	Maintenance	System	Host Interface	PCL Menu
Orientation	Portrait	Font Pitch	10.00		
Form Lines	84	Symbol Set	Roman-8		
Font Source	Resident				
Font Number	0				
Point Size	12.00				

Orientation  
Select the key, then press[OK]

Portrait  
Landscape

Cancel OK



## 7. Monitoring and Configuring the Printer

### Changing Names and Comments

You can change printer names and make a comment on printers to ease your identifying the printers listed on SmartNetMonitor for Client.

The following utilities are used to change printer names and comments.

#### ❖ SmartNetMonitor for Admin

Allows you to change names and comments when the TCP/IP protocol or IPX/SPX protocol is available. You can install SmartNetMonitor for Admin from the CD-ROM that comes with the printer. For more information about installing SmartNetMonitor for Admin, see [p.52 “Installing SmartNetMonitor for Admin”](#).

#### ❖ Web Browser

Allows you to change names and comments when the TCP/IP protocol is available.

#### Note


- Each of the names, in a TCP/IP protocol form (printer name) and in a NetBEUI protocol form, is changed individually. Comments are, however, common to both of them.
- The factory default name consists of "RNP" and the last 3 bytes of the MAC address of the network interface board. For example, when the MAC address is 00:00:74:62:7D:D5, the factory default name is "RNP627DD5". Comments are not configured.



---

## SmartNetMonitor for Admin

---


- 1** Run SmartNetMonitor for Admin.
- 2** Click the **[Group]** menu, point to **[Open LAN]**, and select **[TCP/IP]** or **[IPX/SPX]**. A list of printers appears.
  -  **Note**
    - Select the protocol of the printer you want to change the settings.
- 3** On the list, click to select the printer whose network interface board you want to change the settings.
- 4** From the **[Tools]** menu, select **[NIB Setup Tool]**.

The NIB Setup Tool starts up.
- 5** Select **[Property Sheet]**, and then click **[OK]**.

---

### TCP/IP

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- 1** Click the **[General]** tab, and then type the name into the **[Device Name]** box and comment into the **[Comment]** box.
    - In the **[Device Name]** box, type the name of the printer within 47 characters. The factory default name consists of "RNP" and the last 3 bytes of the MAC address of the network interface board. For example, when the MAC address is 00:00:74:62:7D:D5, the factory default name is "RNP627DD5". No name of 9 characters is permitted if prefixed with "RNP". Also, when DHCP is selected as an IP address setting, the number of characters is limited to within 13 characters.
    - In the **[Comment]** box, type any comment on printers within 31 characters.
- 



---

## NetBEUI

---

- 1 Click the **[General]** tab, and then type the comment into the **[Comment]** box.

In the **[Comment]** box, type any comment on printers within 31 characters.

- 2 Click the **[NetBEUI]** tab.

- 3 Type the name into the **[Computer Name]** box.

- In the **[Computer Name]** box, type the name that helps you to identify printers using the NetBEUI protocol. The factory default name consists of "RNP" and the last 3 bytes of the MAC address of the network interface board. For example, when the MAC address is 00:00:74:62:7D:D5, the factory default name is "RNP627DD5". A maximum of 13 characters of capital English letters, numeric, or symbols (except "\*+/,/;<=>?[\]|. and space) can be used. No name is permitted if prefixed with "RNP". You must avoid the duplication of the same name on a network.
- In the **[Comment]** box, type any comment on printers within 31 characters.

- 6 Click **[OK]**.

The NIB Setup Tool exits, and the setting is transmitted to the printer.

- 7 Exit SmartNetMonitor for Admin.



---

## Web Browser

---

- 1** Run the Web browser.
- 2** Type the address "http:// (IP address of the printer you want to change the settings)".  
The status of the selected printer is displayed on the Web browser.
- 3** Click **[Configuration]**.  
A dialog box that prompts you to type the user name and password appears.
- 4** Type the user name and password, and then click **[OK]**.  
Type only the password in this dialog box. The factory default password is "password".
- 5** Change names and comments.

---

## TCP/IP

---

- 1** Click the **[General]** tab, and then type the name into the **[Printer Name]** box and comment into the **[Comment]** box.
  - In the **[Printer Name]** box, type the name of the printer within 47 characters. The factory default name consists of "RNP" and the last 3 bytes of the MAC address of the network interface board. For example, when the MAC address is 00:00:74:62:7D:D5, the factory default name is "RNP627DD5". No name of 9 characters is permitted if prefixed with "RNP". Also, when DHCP is selected as an IP address setting, the number of characters is limited to within 13 characters.
  - In the **[Comment]** box, type any comment on printers within 31 characters.



---

## NetBEUI

---

**1** Click **[NetBEUI]**.

**2** Type the name into the **[Computer Name]** box and comment into the **[Comment]** box.

- In the **[Computer Name]** box, type the name that helps you to identify printers using the NetBEUI protocol. The factory default name consists of "RNP" and the last 3 bytes of the MAC address of the network interface board. For example, when the MAC address is 00:00:74:62:7D:D5, the factory default name is "RNP627DD5". A maximum of 13 characters of capital English letters, numeric, or symbols (except "\*+;/:;<=>?[\\]|. and space) can be used. No name is permitted if prefixed with "RNP". You must avoid the duplication of the same name on a network.
- In the **[Comment]** box, type any comment on printers within 31 characters.

**6** Click **[Apply]**.

The setting is transmitted to the printer.

**7** Exit the Web browser.





## Displaying the Status of Printer

You can view the status of printers using SmartNetMonitor for Admin, SmartNetMonitor for Client, or Web browser.

---

### SmartNetMonitor for Admin

---

**1** Run SmartNetMonitor for Admin.

**2** Click the [Group] menu, point to [Open LAN], and select [TCP/IP] or [IPX/SPX].

The status of printers is indicated with an icon in the list.

 **Note**

For more information about the status icons, see the Help file.

**3** To get further information, click the desired printer to select from the list, and then click [Open] on the [Device] menu.

The status of the printer is displayed on a dialog box.

 **Note**

For more information about each item on the dialog box, see the Help file.





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## SmartNetMonitor for Client

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To view the status of printers using SmartNetMonitor for Client, you must, in advance, configure SmartNetMonitor for Client so it monitors the printer whose status you want to view.

---

### Monitoring Printers

---

**1** Run SmartNetMonitor for Client.

The SmartNetMonitor for Client icon appears at the right end of the taskbar.

**2** Right-click the SmartNetMonitor for Client icon, and check if the desired printer is configured on the pop-up menu that appears.

If it is configured, see [p.187 “Displaying the Status of Printers”](#).

**3** If the desired printer is not configured, click [Options] on the pop-up menu.

The [SmartNetMonitor for Client - Options] dialog box appears.


**4** Click the printer to be monitored, and select the [To Be Monitored] check box from the [Monitoring Information Settings] group.

 **Note**

- Selecting the [Displayed on Task Bar] check box will bring up the status of a printer with an icon on the SmartNetMonitor for Client icon on the task tray.

**5** Click [OK].

The dialog box closes and the configured printer is monitored.





---

## Displaying the Status of Printers

---

**1** Run SmartNetMonitor for Client.

**2** The status of printers is displayed on the SmartNetMonitor for Client icon on the task tray.

 **Note**

- For more information about the status icons, see the Help file.

**3** To get further information on the status, right-click the SmartNetMonitor for Client icon and click the desired printer.

The status of the printer is displayed on a dialog box.

 **Note**

- For more information about each item on the dialog box, see the Help file.

---

## Web Browser

---

**1** Run the Web browser.

**2** Type 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] and you can check the status of the printer.

 **Note**

- For more information about each item, see the Help file.
- 



## 8. Appendix

### Configuring the Printer using SmartNetMonitor for Admin

Using SmartNetMonitor for Admin, you can not only monitor the status of network printers but also allows you to change the configurations of the network interface board using the TCP/IP protocol or IPX/SPX protocol.

<b>OS</b>	<b>Protocol Stack</b>
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 NT4.0	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

The following describes the method of changing the network interface board configuration.



---

## Changing the Network Interface Board Configuration

---

- 1** Run SmartNetMonitor for Admin.
- 2** Click the [Group] menu, point to [Open LAN], and select [TCP/IP] or [IPX/SPX]. A list of printers appears.

 **Note**

- Select the protocol of the printer you want to change the configure.

- 3** On the list, click to select the printer you want to change the configure.

- 4** From the [Tools] menu, select [NIB Setup Tool].

The NIB Setup Tool starts up.

- 5** Select [Wizard] or [Property Sheet], and then click [Next].
  - When configuring the network interface board for the first time, select [Wizard].
  - When changing the configuration of the network interface board or configuring it in detail, select [Property Sheet].

---

### Selecting [Wizard]

---

- 1** Fill in the necessary items, and then click [Next].


---

### Selecting [Property Sheet]

---

- 1** A configuration list appears on the dialog box.

For more information about each item on the dialog box, see the Help file.





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## Locking the Menus on the Printer's Operating Panel

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**1** Run SmartNetMonitor for Admin.

**2** Click the [Group] menu, point to [Open LAN], and then select [TCP/IP] or [IPX/SPX].

A list of printer appears.

 **Note**

- Select the protocol of the printer you want to change the configuration.

**3** Click to select the desired printer.

**4** From the [Tools] menu, select [Lock Menu of Device Option Panel].

The Web browser starts up, and the screen that prompts you to type the user name and a password appears.

**5** Type the user name and password, and then click [OK].

The general configuration window appears.

**6** From the [Lock Menu of Device Option Panel] pull down menu, select [Apply].

**7** Click [Refresh].

**8** Exit the Web browser.





---

## Changing the Paper Type

---

**1** Run SmartNetMonitor for Admin.

**2** Click the [Group] menu, point to [Open LAN], and select [TCP/IP] or [IPX/SPX].

A list of printer appears.

 **Note**

- Select the protocol of the printer you want to change the configuration.

**3** On the list, click to select the printer whose paper type you want to change.

**4** From the [Tools] menu, select [Paper Type Settings].

The Web browser starts up, and the screen that prompts you to type the user name and a password appears.

**5** Type the user name and a password, and then click [OK].

The paper type configuration window appears.

**6** Select the sheet type, and then click [Apply].

**7** Exit the Web browser.





---

## Managing the Number of Copies to be Printed

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### Preparation

Optional User Account Enhance Unit TypeB must be installed to manage the number of copies to be printed. For more information about installing User Account Enhance Unit TypeB, see "*Installing the User Account Enhance Unit TypeB*" in the Setup Guide.

**1** Run SmartNetMonitor for Admin.

**2** Click the [Group] menu, point to [Open LAN], and then select [TCP/IP] or [IPX/SPX].

A list of printer appears.

### Note

- Select the protocol of the printer you want to change the configuration.

**3** On the list, click to select the printer whose statistics information you want to manage.

**4** From the [Tools] menu, select [User Management Tool].

The screen that prompts you to type a password appears.


**5** Type a password, and then click [OK].

### Note

- The factory default password is "password".

The User Code Maintenance Tool starts up.

For more information about using the User Management Tool, see the Help file for SmartNetMonitor for Admin.







---

## Configuring the Energy Save Mode

---

**1** Run SmartNetMonitor for Admin.

**2** Click the [Group] menu, point to [Open LAN], and select [TCP/IP] or [IPX/SPX].

A list of printer appears.

 **Note**

- Select the protocol of the printer you want to change the configuration.

**3** Click [Group], point to [Energy Save Mode], and select any energy saver mode from the menu that appears.

For more information about settings, see the Help file for SmartNetMonitor for Admin.





## Configuring the Network Interface Board with a Web Browser

The Network Interface Board functions as a Web server in addition to allowing a printer to function as a network printer. You can use a Web Browser to view the printer status and configure the Network Interface Board.

### ❖ Configuring the printer

This requires the TCP/IP protocol to be installed. After the printer has been configured to use the TCP/IP protocol, it will be possible to adjust the settings using a Web Browser.

#### Reference

For more information about configuring the printer to use the TCP/IP protocol, see Printer Client Reference 1 that comes with this printer.

### ❖ Operating system browser requirements

OS	Browser
Windows 95/98/Me	Microsoft Internet Explorer 3.02/4.0 or later Netscape Navigator 3.0/4.0 or later
Windows 2000	
Windows NT 4.0	
Mac OS 7.6.1 ~ 9.0	
Solaris 2.5 ~ 8	

#### Limitation

- Sometimes after clicking **[Back]** , the previous page may not appear. In this case, click **[Refresh]** or **[Reload]** .
- The text on the screen may disappear or be aligned incorrectly if the font size settings of the browser are too large. It is recommended that you use a font size equal to or smaller than "10 point" with Netscape Navigator, and "Medium" or smaller with Internet Explorer.



## Going to the Top Page

After launching the Web Browser, type the IP address of the printer. 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 type the host name as an 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.
- If the network uses proxy servers, the browser may run slowly.



### I. Header Buttons

You can register favorite URLs with **[URL]**. To view the Help section, click **[Help]**.

### Important

- It costs to use the browser to access a website.

### Note

- The Help file 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

Buttons to configure the Network Interface Board and confirm the status of the printer.


### Note

- When you click **[Network Config]**, a dialog box appears requesting the user name and password. Type only the password in this dialog box. The factory default password is "password".

- The password is the same as that used for remote maintenance and that used in the NIB Setup Tool. If you change a password with the Web Browser, the other passwords are also changed.

## 3. Status

Displays the name and comments of the Network Interface Board, and the printer status.



## Linking the address (URL) to the [Help] button

You can link the address (URL) of the **[Help]** button to the Help files on the computer or on a Web server.

- ① Copy the Help files on the CD-ROM to the desired location. The Help files 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 click **[Network config]**.
- ③ Type your password, (it is not necessary to type a user name) and click **[OK]**.
- ④ Type the path to the Help files in the **[Help URL]** box.  
If you copied the Help files to "C:\HELP\EN", type "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", type "http://a.b.c.d/HELP/".
- ⑤ Click **[Apply]**.  
When a warning message appears, select to continue configuration.



## SNMP

The Network Interface Board functions as a SNMP (Simple Network Management Protocol) agent using the UDP and IPX protocols. Using the SNMP manager you can get information about the printer. The factory default community names are "public" and "admin". You can get MIB information using these community names.



### Reference

For more information about configuring the community name, see [p.207 "SNMP"](#) in "Remote Maintenance by telnet".



### Limitation

- The kinds of supported MIBs differ depending on the printer.

### ❖ Supported MIBs

- MIB-II
- PrinterMIB
- HostResourceMIB
- RicohPrivateMIB





## 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 that only the network administrator, or a person having network administrator privileges, can use remote maintenance.

---

## Using telnet

---

The following is a sample procedure in using telnet.

### Limitation

- Only one person at a time can be logged on to do remote maintenance.

### **1** Using the IP address or host name of the printer, start telnet.

```
% telnet IP_address
```

#### Note

- In order to use the host name instead of the IP address, you must write it to the /etc/hosts file.

### **2** Type the password.

#### Note

- The factory default is "password".

### **3** Type a command.

#### Reference

For more information about telnet commands, see [p.199 "Commands List"](#).





## 4 Exit telnet.

```
msh> logout
```

When the configuration is changed, a confirmation message requests whether or not the changes should be saved.

## 5 Type "yes" to save the changes, and press **[ENTER]**.

If you do not want to save the changes, type "no" and press **[ENTER]**. If you want to make additional changes, type "return" at the command line, and 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 the settings are changed.
- When the Network Interface Board is reset, the active print job which has already been sent to the printer will finish printing. However, jobs that have not been sent yet will be canceled.

---

## Commands List

---

This is a list of commands that can be used via remote maintenance.

### Note

- Type "help" to see a list of commands that can be used.

```
msh> help
```

- Type "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 for the printer (IP address, subnet mask, broadcast address, default gateway address).

### ❖ Reference

```
msh> ifconfig
```

### ❖ Configuration

```
msh> ifconfig nafo parameter address
```

Parameter	Meaning
(no parameter)	IP address
netmask	subnet mask
gateway	default gateway address
broadcast	broadcast address

The following is an example for configuring an IP address of 192.168.15.16.

```
msh> ifconfig nafo 192.168.15.16
```

The following is an example for configuring a subnet mask of 255.255.255.0.

```
msh> ifconfig nafo netmask 255.255.255.0
```

### Note

- This affects the configuration of the Network Interface Board of the IP address that is used.
- To type an address using hexadecimal, prefix it by "0x".







---

## Address

### ❖ Subnet Mask

A number used to mathematically "mask" or hide the IP address on the network by eliminating those parts of the address that are alike for all the machines on the network.

### ❖ Default Gateway Address

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

### Note

- To get the above addresses, contact your network administrator.

---

## Access Control

---

Use the access command to view and configure access control.

### ❖ Reference

```
msh> access
```

### ❖ Configuration

```
msh> access parameter address
```

Parameter	Meaning
control	Access Control Address
mask	Access Control Mask



 **Note**

- ❑ The Access Control Address and the Access Control Mask are used to limit access to the computer used for printing by denying access to users based on their IP address. If it is not necessary to limit access, set the Access Control Mask to "0.0.0.0".
- ❑ When the Access Control Address matches the masked result of the IP address computer attempting to print, print jobs from that IP address will be accepted by the Network Interface Board.
- ❑ For example, if you assign 192.168.15.16 as the Access Control Address of the Network Interface Board, the IP addresses that can print are as follows. XXX means any number from 1 to 254 is acceptable.

Access Control Mask	IP addresses that can access the printer
0. 0. 0. 0	XXX.XXX.XXX.XXX
255. 0. 0. 0	192.XXX.XXX.XXX
255.255. 0. 0	192.168.XXX.XXX
255.255.255. 0	192.168. 15.XXX
255.255.255.255	192.168. 15. 16



---

## Network Boot

---

Use the set command to configure the boot method.

```
msh> set parameter {on | off}
```

"on" means active and "off" means inactive.

Parameter	Meaning
dhcp	DHCP (Dynamic Host Configuration Protocol)

 **Note**

- When you use DHCP, the server also needs to be configured.
- DHCP takes precedence over all other settings.





---

## 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	

 **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 printer operation panel to allow access by TCP/IP.
- When you prevent access via TCP/IP, you are also prevented from using lpr, ftp, rsh, diprint, web, snmp and ipp.





---

## 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, printer language of printer.
prnlog [ID]	Lists the last 16 print jobs.

 **Note**

- More information about any print job is displayed when the ID number is added after the prnlog command.

 **Reference**

For more information about the meaning of the data returned with these commands, see [p.228 “Print Job 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 the information displayed one screen at a time.

### Reference

For more information about the meaning of the data returned with this command, see [p.230 “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.233 “System Log Information”](#).





---

## SNMP

---

Use the `snmp` command to display and edit SNMP configuration settings such as the community name.

 **Note**

- You can configure from 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**

Shows the 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 must consist of 15 characters or less.





## ❖ Access type configuration

You can select the access type from those 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 an 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 an address of a host depending on the protocols used.

The Network Interface Board accepts requests only from hosts having addresses with access types of "read-only" or "read-write". Type "0" to have the Network Interface Board accept requests from any host without requiring a specific type of access.

Command syntax:

```
msh> snmp number {ip | ipx} address
```

### Note

- To specify the TCP/IP protocol, type ip followed by a space and then the IP address.
- To specify the IPX/SPX protocol, type ipx followed by a space and 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 the 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 could be made.
- The "auth" setting indicates the user authorization mode.

### ❖ IPP timeout configuration

Specify 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 65535 seconds.

```
msh> ipp timeout {30 -65535}
```

### ❖ IPP user authorization configuration

Use the IPP user authorization to restrict users that can print with IPP. The factory default is "off" .

```
msh> ipp auth {basic|digest|off}
```

- "basic" and "digest" are user authorization setting.
- "off" removes a user's authorization.

### Note

- If you select "basic" or "digest", see next section "*Configuring IPP user authorization*" for how to configure the user name. Up to ten user names are available.



## ❖ Configuring IPP user authorization

Use the following command:

```
msh> ipp user
```

The following message appears.

```
msh> Input user number (1 to 10):
```

Type 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.
```

---

## 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 complete name
smb clear group	Clears Workgroup name
smb clear comment	Clears comment



---

## 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 remote PC 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 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 PureIP environment of NetWare5. To use 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 within 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}
```

---

## 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 factory password is "password".

**1** Type "passwd".

```
msh> passwd
```

**2** Type the current password.

```
Old password:
```



### **3** Type the new password.

**New password:**

#### **Note**

- The password must consist of 3 to 8 alphanumeric characters and symbols. Upper and lower case characters are considered unique. 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 the NIB Setup Tool. If you change a password from telnet, the other passwords are also changed.

### **4** Type 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.

Messages	Description	Comments
Call Service Center	There is a malfunction in the printer.	Turn the printer off and on.
Call Service Center: SC***_*	An error has occurred in the printer.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Cover Open: Duplex Unit	The cover of the optional Duplex Unit is open.	Close the cover of the optional Duplex Unit.
Cover Open: Front Cover	Close the front cover.	Close the front cover.
Cover Open: Mailbox	The cover of the Mailbox is open.	Close the cover of the Mailbox cover.
Empty: Black Toner	The toner cartridge is empty.	Replace the new toner cartridge.
Empty: Cyan Toner	The toner cartridge is empty.	Replace the new toner cartridge.
Empty: Magenta Toner	The toner cartridge is empty.	Replace the new toner cartridge.
Empty: Yellow Toner	The toner cartridge is empty.	Replace the new toner cartridge.
Energy Saver Mode	The printer is in Energy Save Mode.	Wait for a while.



<b>Messages</b>	<b>Description</b>	<b>Comments</b>
Error: Command Transmission	An error has occurred in the engine or controller.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Error: DIMM Value	An error has occurred in the DIMM.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Error: Ethernet Board	An error has occurred in the Network Interface Board.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Error: HDD Board	An error has occurred in the optional Hard Disk Drive.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Error: IEEE 1394 Board	An error has occurred in the optional 1394 Interface Unit.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Error: Memory Switch	An error has occurred in printer.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Error: Optional RAM	An error has occurred in the optional Memory Unit.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.





<b>Messages</b>	<b>Description</b>	<b>Comments</b>
Error: Parallel I/F Board	An error has occurred in the parallel interface board.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Full: Finisher	All output trays of the optional Finisher are full.	Remove paper from the Finisher.
Full: Finisher Tray 1	Output tray 1 of the optional Finisher is full.	Remove paper from the Finisher.
Full: Finisher Tray 2	Output tray 2 of the optional Finisher is full.	Remove paper from the Finisher.
Full: Hole Punch Receptacle	Hole Punch Receptacle of the optional Finisher is full.	Remove Hole Punch Receptacle from the Finisher.
Full: Mailbox	All output trays of the optional Mailbox are full.	Remove paper from the Mailbox.
Full: Mailbox Tray 1	The output tray 1 of the optional Mailbox is full.	Remove paper from the output tray 1 of the optional Mailbox.
Full: Mailbox Tray 2	The output tray 2 of the optional Mailbox is full.	Remove paper from the output tray 2 of the optional Mailbox.
Full: Mailbox Tray 3	The output tray 3 of the optional Mailbox is full.	Remove paper from the output tray 3 of the optional Mailbox.
Full: Mailbox Tray 4	The output tray 4 of the optional Mailbox is full.	Remove paper from the output tray 4 of the optional Mailbox.
Full: Output Tray(s)	All output trays are full.	Remove paper from all output trays.
Full: Standard Tray	The standard tray is full.	Remove paper from standard trays.



Messages	Description	Comments
Full: Waste Toner	The waste toner is full	Replace a new waste toner.
Hex Dump Mode	The printer is in Hex Dump Mode.	Wait for a while. If the "Hex Dump Mode" message does not change, on the panel display press <b>[On Line]</b> to return to the "Ready " condition.
Low: Black Toner	The toner cartridge is not set correctly or toner is almost running out.	Set the toner cartridge correctly.
Low: Cyan Toner	The toner cartridge is not set correctly or toner is almost running out.	Set the toner cartridge correctly.
Low: Magenta Toner	The toner cartridge is not set correctly or toner is almost running out.	Set the toner cartridge correctly.
Low: Yellow Toner	The toner cartridge is not set correctly or toner is almost running out.	Set the toner cartridge correctly.
Low: Staples	The staple is not set correctly or staple is almost running out.	Set the staple cartridge correctly.
Malfunction: Duplex Unit	An error has occurred in the optional Duplex Unit.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Malfunction: Finisher	An error has occurred in the optional Finisher.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.



<b>Messages</b>	<b>Description</b>	<b>Comments</b>
Malfunction: Input Tray(s)	An error has occurred in the Input Tray(s).	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Malfunction: Output Shift	An error has occurred in the output tray when use the output shift feature.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Malfunction: Punch Unit	An error has occurred in the optional Punch Unit.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Malfunction: Stapler	An error has occurred in the optional Staple Unit.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Malfunction: Tray 1	An error has occurred in the tray 1.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Malfunction: Tray 2	An error has occurred in the tray 2.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Malfunction: Tray 3	An error has occurred in the tray 3.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.



Messages	Description	Comments
Malfunction: Upper Tray 4	An error has occurred in the tray 4.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Mismatch: Paper Size	The paper size setting of the tray differs from that of actual paper size in the tray.	Load paper of the indicated paper size into the paper tray being used. See " <i>Paper and Other Media</i> " in Maintenance Guide 2.
Mismatch: Paper Size and Type	The paper type setting of the tray differs from that of actual paper type in the tray.	Load paper of the indicated paper size and type into the paper tray being used. See " <i>Paper and Other Media</i> " in Maintenance Guide 2.
Mismatch: Paper Type	The paper type setting of the tray differs from that of actual paper type in the tray.	Load paper of the indicated paper type into the paper tray being used. See " <i>Paper and Other Media</i> " in Maintenance Guide 2.
Nearly Full: Waste Toner Bottle	The waste toner is full nearly	Replace a new waste toner.
No Paper: Bypass Tray	There is no paper in the bypass tray.	Load paper into the bypass tray. See Maintenance Guide 2.
No Paper: Input Tray(s)	There is no paper in the paper tray.	Load paper into the paper tray. See Maintenance Guide 2.
No Paper: Selected Tray	There is no paper in the current tray.	Load paper into the current tray. See Maintenance Guide 2.
No Paper: Tray 1	There is no paper in the paper tray (Tray1).	Load paper into the bypass tray. See Maintenance Guide 2.



Messages	Description	Comments
No Paper: Tray 2	There is no paper in the optional Paper Feed Unit (Tray2).	Load paper into the bypass tray. See Maintenance Guide 2.
No Paper: Tray 3	There is no paper in the optional Paper Feed Unit (Tray3).	Load paper into the bypass tray. See Maintenance Guide 2.
No Paper: Tray 3 (LCT)	There is no paper in the optional LCT (Tray3).	Load paper into the bypass tray. See Maintenance Guide 2.
No Paper: Tray 4	There is no paper in the optional Paper Feed Unit (Tray4).	Load paper into the bypass tray. See Maintenance Guide 2.
No Paper: User Selected Tray	There is no paper in the selected tray.	Load paper into the selected tray. See Setup Guide.
Not Detected: Duplex Unit	The optional Duplex Unit is not set correctly.	Set the optional Duplex Unit correctly. If the message appears again, call your sales or service representative.
	An error has occurred in the Duplex Unit.	
Not Detected: Fusing Unit	The fusing unit is not set correctly.	Set the fusing unit correctly. If the message appears again, call your sales or service representative.
Not Detected: Input Tray(s)	The input tray is not set correctly.	Set the input tray correctly. If the message appears again, call your sales or service representative.
Not Detected: Black Toner	The toner cartridge is not set correctly.	Set the toner cartridge correctly. If the message appears again, call your sales or service representative.



Messages	Description	Comments
Not Detected: Cyan Toner	The toner cartridge is not set correctly.	Set the toner cartridge correctly. If the message appears again, call your sales or service representative.
Not Detected: Magenta Toner	The toner cartridge is not set correctly.	Set the toner cartridge correctly. If the message appears again, call your sales or service representative.
Not Detected: Yellow Toner	The toner cartridge is not set correctly.	Set the toner cartridge correctly. If the message appears again, call your sales or service representative.
Not Detected: Tray 1	The paper tray (Tray 1) is not set correctly.	Set the paper tray (Tray 1) correctly. If the message appears again, call your sales or service representative.
Not Detected: Tray 2	The paper tray (Tray 2) is not set correctly.	Set the paper tray (Tray 2) correctly. If the message appears again, call your sales or service representative.
Not Detected: Tray 3	The optional Paper Feed Unit (Tray 3) is not set correctly.	Set the optional Paper Feed Unit (Tray 3) correctly. If the message appears again, call your sales or service representative.
Not Detected: Tray 3 (LCT)	The optional LCT (Tray 3) is not set correctly.	Set the optional LCT (Tray 3) correctly. If the message appears again, call your sales or service representative.
Not Detected: Tray 4	The optional Paper Feed Unit (Tray 4) is not set correctly.	Set the optional Paper Feed Unit (Tray 4) correctly. If the message appears again, call your sales or service representative.



Messages	Description	Comments
Not Detected: User Selected Tray	The selected tray is not set correctly.	Set the selected tray correctly. If the message appears again, call your sales or service representative.
Offline	The printer is Offline.	If you want to change into On Line, press <b>[On Line]</b> .
On Line	The printer is Online.	You can print the job data.
Online		
Paper in Finisher	There is paper in the optional Finisher.	Remove the paper. See Maintenance Guide 2.
Paper Misfeed: Duplex Unit	There is misfeed in the Duplex Unit.	Remove the misfed paper. See Maintenance Guide 2.
Paper Misfeed: Front Cover	There is misfeed in the printer.	Remove the misfed paper. See Maintenance Guide 2.
Paper Misfeed: Input Tray	There is misfeed in the printer.	Remove the misfed paper. See Maintenance Guide 2.
Paper Misfeed: Mailbox	There is misfeed in the Mailbox.	Remove the misfed paper.
Paper Misfeed: Output Tray	There is misfeed in output tray.	Remove the misfed paper.
Printing...	---	Wait for a while.
Warming Up/Adjusting...	The printer is warming up or toner is being supplied.	Wait until the panel display change the "Ready".



## Printer configuration

You can check the printer configuration using telnet.

### ❖ telnet

Use the info command. ⇒ [p.205 “Printer status”](#)

### Note

- "\*" (asterisk) is displayed with the current setting.
- Regarding \*1 - \*5, see below table.

Item	Description
Input Tray	
No.	ID number of the paper tray
Name	Name of the paper tray* <sup>1</sup>
PaperSize	Paper size loaded in the paper tray* <sup>2</sup>
Status	Current status of the paper tray* <sup>3</sup>
Output Tray	
No.	ID number of the output tray
Name	Name of the output tray* <sup>4</sup>
Status	Current status of the output tray* <sup>5</sup>
Printer Language	
No.	ID number of the printer language used by the printer
Name	Name of the printer language used in the printer
Version	Version of the printer language





## ❖ \*1 Input Tray: Name

Name	Description
Tray X	Name of installed paper tray. (X is the number of tray.)
Tray 3 (LCT)	Lage Capacity Tray
Bypass Tray	Bypass Tray

## ❖ \*2 Input Tray: Paper Size

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(XXXxYYY 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 (110 × 220 mm)	DL (110 × 220)
C5 Env (162 × 229 mm)	C5 Env (162 × 229)
8 × 13	8×13
C6 Env (114 × 162 mm)	C6 Env (114 × 162)
8K (267 × 390 mm)	8K (267 × 390)
16K (267 × 195 mm)	16K (267 × 195)
16K (195 × 267 mm)	16K (195 × 267)
NCS	There is no tray.
**	The paper size is not selected.



## ❖ \*3 Input Tray: Status

Status	Description
Normal	—
NoTray	There is no paper tray
PaperEnd	There is no paper in the paper tray

## ❖ \*4 Output Tray: Name

Name	Description
Standard Tray	Standard Tray
External Tray	External Tray
Mailbox Tray X	Name of Mailbox tray (X is the number fo tray.)
Finisher Tray 1	Finisher Tray 1
Finisher Tray 2	Finisher 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 error



## Understanding the Displayed Information

This section describes how to read status information returned by the Network Interface Board.

---

### Print Job Information

---

The status of the print job can be viewed using the following commands.

- telnet : Use the status command. ⇒ p.205 “Printer status”

Item name	Meaning
Rank	Status of print job. <ul style="list-style-type: none"><li>• Active Printing or preparing for printing.</li><li>• Waiting Waiting to be transferred to the printer.</li></ul>
Owner	Print request user name.
Job	Print request number.
Files	The name of the document.
Total Size	The size of the data (spooled). Always displayed "0 bytes".



---

## Print Log Information

---

This is a record of the most recent ten jobs that have been printed.

This log can be displayed with the following commands.

- telnet : Use the prnlog command. ⇒ p.199 “Commands List”

Name	Meaning
ID	Print request ID.
User	Print request user name.
Page	The number of pages that is printed.
Time	The time when the print request was received
User ID	User id that is to be configured in the printer driver.
JobName	The name of the document for printing.



## Configuring the Network Interface Board

The Network Interface Board settings can be displayed and confirmed using the commands below.

- telnet : Use the show command. ⇒ p.199 “Commands List”

Item name	Meaning
Common Mode Protocol Up/Down AppleTalk TCP/IP NetWare NetBEUI Ethernet interface NVRAM version Device name Comment Location Contact Soft switch	Up means active, Down means inactive.      Internal version number.
AppleTalk Mode Net Object Type Zone	AppleTalk protocol in selection. Network number. Macintosh printer name. The type of printer. Name of the zone that the printer belongs to.



Item name	Meaning
TCP/IP	
Mode	Up means active, Down means inactive.
ftp	
lpr	
rsh	
diprint	
web	
telnet	
download	
snmp	
ipp	
EncapType	Frame type.
Network boot	Network boot.
Address	IP address.
Netmask	Subnet mask.
Broadcast	Broadcast address.
Gateway	Default gateway address.
AccessCtrl	Access control address.
AccessMask	Access control mask.
Time server	
Home page URL	URL of homepage.
Home page link name	URL name of homepage.
Help page URL	URL of help page.
SNMP protocol	Protocol used with SNMP.



Item name	Meaning
NetWare EncapType RPRINTER number Print server name File server name Context name Switch Mode NDS/Bindery Packet negotiation Print job timeout	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.
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).
Shell mode	Mode of remote maintenance tool.







## Message List

This is a list of messages written to 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. ⇒ [p.199 “Commands List”](#)

Message	Description 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 in to the file server. Confirm that 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 community name.
add_sess: session<community name> not defined.	A requested community name is not defined.
add_sess: bad trap addr:<IpAddress>, community:<community name>	The IP address (0.0.0.0.) is unavailable when 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 when the community access type is TRAP. Specify the host IPX address for the TRAP destination.
add_sess_ipx: community <community name> already defined.	The same community name already exists. Use another community name.



Message	Description and Solutions
add_sess_ipx: session_ipx<community name> not defined.	A requested community name is not defined.
ANONYMOUS FTP LOGIN FROM <IP address>, <password>	An anonymous login has been made with a password <password> from the host <IP address>.
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 that the file server can handle.
Cannot find rprinter ("print server name"/"printer number")	The printer having the number displayed on the print server does not exist. Confirm the number of the printer registered to 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>.



Message	Description and Solutions
Could not attach to FileServer <error number>	(In remote printer mode) Cannot attach to the file server. For some reason, the file server refuses the connection. Check the file server configuration.
Could not attach to PServer <print server>	(In remote printer mode) Cannot attach to the print server. For some reason, the print server refuses 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	The current IPX address.
DHCP lease time expired.	DHCP lease time has expired. The printer tries to discover the DHCP server again. The IP address used up to now becomes invalid.
DHCP server not found.	The DHCP server cannot be found. Make sure the DHCP server is running on the network.
dhcpcd start.	A dhcpcd (DHCP client service) has started.
diprinted started	Direct print service has started.
Duplicate IP=(IP address>(from <MAC address>).	The same IP address is used. An IP address must be unique. Check the address of the device indicated in The same IP address is used. An 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 with the print server has been established.



Message	Description and Solutions
Exit pserver	(In print server mode) Exits the print server because the necessary print server settings have not been made.
Frametype="frame type name"	The "frame type name" is configured to be used on NetWare.
httpd start.	An httpd has started.
inetd start.	An inetd has started.
ipp disable.	Printing with ipp is disabled.
ipp enable	Printing with ipp is enabled.
LeaseTime=<lease time>(sec), RenewTime=<renew time>(sec).	The resource lease time that was received from the DHCP server is in seconds. The renewal time is also in seconds.
Login to fileserver "file server name" ("NDS BIND-ERY")	(In print server mode) Logged in to the file server with NDS or BINDERY mode.
multid start.	Data transmission service for multiprotocols has started.
nbstart start. (NetBEUI)	The service for NetWare protocol stack setting has started.
NBT Registration Broadcast(<NetBIOS name>)	Use a local broadcast to map <NetBIOS name> with the IP address.
nptd start.	A nptd (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)	A nmsd (Name Server Daemon) has started.



<b>Message</b>	<b>Description and Solutions</b>
nprinter start. (NetWare)	(In remote printer mode) NetWare service has started in remote printer mode.
nwstart start. (NetWare)	The service for NetWare protocol stack setting has started.
Open log file "file name"	(In print server mode) The specified log file has been opened.
papd start.	AppleTalk print service has started.
phy release file open failed.	Replacing the Network Interface Board is required. Contact your sales or service representatives.
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.



Message	Description and Solutions
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, saptype=<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.
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 ipx is ready.	Communication over IPX with SNMP is available.
snmpd start.	SNMP 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 in to the file server. The print server is not registered or the password is specified. Register the print server without specifying a password.



## Precautions

Please pay attention to the following when using the Network Interface Board. When configuration is necessary, follow the appropriate procedures below.

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### Connecting a Dial Up Router to a Network

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When the NetWare file server and the printer are on the opposite side of a router, packets are continuously sent back and forth, possibly causing communications charges to increase. Because the packet transmission is a specification of NetWare, you need to change the configuration of the router. If the network you are using does not allow you to configure the router, configure the printer.

---

### Configuring the router

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Filter the packets so that they do not pass over the dial up router.

 **Note**

- The MAC address of the printer doing the filtering is printed on the printer configuration page. For more information about printing a configuration page, see the Setup Guide that comes with the printer.
- For more information about configuring the printer if the router cannot be configured, see the instructions below.





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## Configuring the printer with NetWare

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- 1** Following 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 Administrator Reference 1 that comes with the printer.

---

## Configuring the printer without NetWare

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- 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 Administrator Reference 1 that comes with the printer.

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## PostScript Printing from Windows

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When printing PostScript from Windows, see the PostScript 3 Supplement provided as a PDF file on the CD-ROM labeled "Operating Instructions".







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## NetWare Printing

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### Form Feed

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You should not configure the form feed on NetWare. The form feed is controlled by the printer driver on Windows. If the 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.


- With Windows 95/98/Me, clear the **[Form feed]** check box under the **[Printer Settings]** tab in the printer properties dialog box.
- With Windows 2000, clear the **[Form feed]** check box under the **[NetWare Settings]** tab in the printer properties dialog box.
- With Windows NT 4.0, clear the **[Form feed]** check box under the **[NetWare Settings]** tab in the printer properties dialog box.

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### Banner Page

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You should not configure a banner page on NetWare. If you want to change the banner page setting, always configure it on Windows.

- With Windows 95/98/Me, clear the **[Enable banner]** check box under the **[Printer Settings]** tab in the printer properties dialog box.
  - With Windows 2000, clear the **[Enable banner]** check box under the **[NetWare Settings]** tab in the printer properties dialog box.
  - With Windows NT 4.0, clear the **[Enable banner]** check box under the **[NetWare Settings]** tab in the printer properties dialog box.
- 



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## Printing after resetting the printer

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After resetting the remote printer, it will be cut off from the print server for about 30-40 seconds before connecting again. Due to the NetWare specification, print jobs may be accepted, but they will not be printed during this interval.

When using the printer as a remote printer, wait about 2 minutes after resetting the printer before attempting to print.

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## When Using DHCP

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Note the following points when using DHCP (Dynamic Host Configuration Protocol).

Select "DHCP" for "Network Boot" on the panel display, If you use DHCP. See Administrator Reference 1 for more information.

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## Configure the printer with a reserved IP address

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To always assign the same IP address, configure a reserved IP address using the DHCP server.

### Note

- When multiple DHCP servers are used, reserve the same address with each DHCP server. The Network Interface Board needs to receive information from the DHCP server that it contacts.
- If you do not know the MAC address, it can be found on the configuration page printed by the printer.
- For details about the settings for IP address, see the Help files for the operating system you use.
- When you select the printer in the DHCP environment using SmartNetMonitor for Client, use the printer name that is displayed with SmartNetMonitor for Admin or shown on the configuration page.



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## Additional information

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- When the DHCP server does not assign an IP address, the Network Interface Board uses 11.22.33.44 as a temporary IP address. You can confirm the printer's IP address on the network configuration page.
- Because 11.22.33.44 is a special IP address, you cannot print using this address.
- When using the DHCP relay agent in a network environment that uses a dial up router to connect to the Network Interface Board, an increase in communication fees can occur.

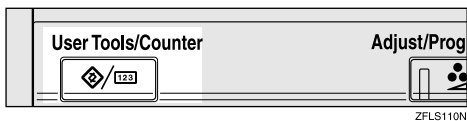


## Other Functions

### Changing the Display Language

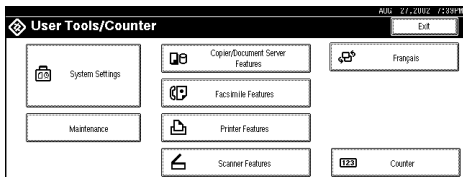
You can change the language used on the display. The default setting is English.

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



"User Tools/Counter" appears on the panel display.

**2** Press **[Francais]**.

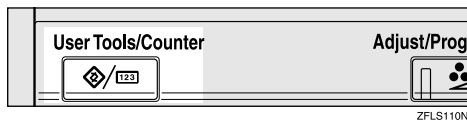


The display language is changed to French.

### Displaying the Total Counter

You can display the total number of sheets used for all functions and total number of sheets used for copying.

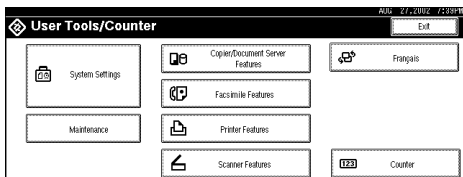
**1** Press the **[User Tools/Counter]** key.



"User Tools/Counter" appears on the panel display.



## 2 Press [Counter].

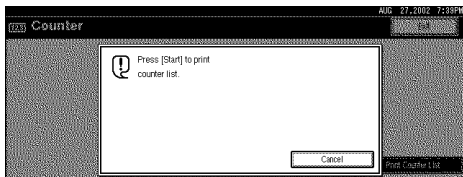


The totals are displayed.



## 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

Resolution	Paper Size	Non-Duplex Printing		Duplex Printing	
		Can be printed	Guarantee	Can be printed	Guarantee
600 × 600 dpi	A3/11×17	192 MB (Standard)	192 MB (Standard)	192 MB (Standard)	192 MB (Standard)
	B4/8 <sup>1</sup> / <sub>2</sub> ×11				
	8 <sup>1</sup> / <sub>2</sub> ×14				
	A4/8 <sup>1</sup> / <sub>2</sub> ×11				
	B5				
	A5				
1200 × 600 dpi	A3/11×17	192 MB (Standard)	192 MB (Standard)	192 MB (Standard)	320 MB (64 + 256 MB)
	B4/8 <sup>1</sup> / <sub>2</sub> ×11				256 MB (128 + 128 MB)
	8 <sup>1</sup> / <sub>2</sub> ×14				
	A4/8 <sup>1</sup> / <sub>2</sub> ×11				
	B5				
	A5				192 MB (Standard)



Resolution	Paper Size	Non-Duplex Printing		Duplex Printing	
		Can be printed	Guarantee	Can be printed	Guarantee
1200 × 1200 dpi	A3/11×17	192 MB (Standard)	320 MB (64 + 256 MB)	192 MB (Standard)	—
	B4/8 <sup>1</sup> / <sub>2</sub> ×11				
	8 <sup>1</sup> / <sub>2</sub> ×14				
	A4/8 <sup>1</sup> / <sub>2</sub> ×11	192 MB (Standard)	320 MB (64 + 256 MB)		
	B5				
	A5			192 MB (Standard)	



## Specifications

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### Mainframe

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❖ **Configuration:**

Desktop

❖ **Print Process:**

Laser beam scanning & Electrophotographic printing  
Dual component toner development

❖ **Printing Speed:**

Monochrome: Maximum 38 pages per minute (A4 , 11× 8½ )  
Color: Maximum 28 pages per minute (A4 , 11× 8½ )

❖ **Parallel Interface:**

**Interface**

Standard 36-pin printer cable and a parallel port on the host computer  
IEEE 1284 I/F (Compatible, ECP, Nibble)

- Do not use a cable more than 2.5 meters (8.2 feet) long.

❖ **Resolution:**

1,200 × 1,200 dpi (RPCS, PostScript 3)  
1,200 × 600 dpi (RPCS, PostScript 3)  
600 × 600 dpi (PCL 5c, RPCS, PostScript 3)  
300 × 300 dpi (PCL 5c) \*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 (Type 2:24, Type 14:112)

❖ **Paper size:**

See "*Paper and Other Media*" in Maintenance Guide 2.

❖ **Paper Weight:**

See "*Paper and Other Media*" in Maintenance Guide 2.

❖ **Power Source:**

120V, 60Hz

❖ **Power Consumption:**

Printing	1200 W or less
Energy Saver	45 W or less

❖ **Noise Emission \*1:**

**Sound Power Level**

	Mainframe only
During Printing	68 dB (A)
Stand-by	42 dB (A)



## Sound Pressure level \*2

	Mainframe only
During Printing	55 dB (A)

\*1 The preceding measurements 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")	678mm (26.7")	715 mm (28.2")

## ❖ Weight:

Approximately 82 kg (181 lb) (toner cartridge and power cord included)

## ❖ Warm-up Time:

Less than 120 seconds (23°C, 73F)

## ❖ Paper Input Capacity:

Standard paper tray	500 sheets × 2 *1
Bypass tray *2	100 sheets *1
Optional Paper Feed Units	500 sheets × 1,500 sheets × 2 *1
Paper Bank PS470	2,000 sheets *1

\*1 Paper weight: 60 - 105 g/m<sup>2</sup> (16 - 28 lb)

\*2 You can load up to 10 envelopes at the same time.



❖ **Paper Output Capacity:**

Face down: 500 sheets (80 g/m<sup>2</sup>, 20 lb)

Face up: 100 sheets (80 g/m<sup>2</sup>, 20 lb)

❖ **Paper weight and number of sheets to be set:**

	<b>Supported paper weight</b>	<b>Maximum number of sheets (plain paper)</b>
Tray 1	60 - 105 g/m <sup>2</sup> (16 - 28 lb)	550 (80 g/m <sup>2</sup> , 20 lb)
Tray 2	60 - 105 g/m <sup>2</sup> (16 - 28 lb)	550 (80 g/m <sup>2</sup> , 20 lb)
Bypass Tray	52 - 162 g/m <sup>2</sup> (14 - 42 lb)	100 (80 g/m <sup>2</sup> , 20 lb)
PAPER FEED UNIT Type 3800C (500 × 1)	60 - 105 g/m <sup>2</sup> (16 - 28 lb)	500 (80 g/m <sup>2</sup> , 20 lb)
PAPER FEED UNIT Type 3800C (500 × 2)	60 - 105 g/m <sup>2</sup> (16 - 28 lb)	500 (80 g/m <sup>2</sup> , 20 lb)
Paper Bank PS470	60 - 105 g/m <sup>2</sup> (16 - 28 lb)	2000 (80 g/m <sup>2</sup> , 20 lb)

❖ **Memory:**

Standard 64 MB, up to 384 MB (with the optional Memory Unit)

❖ **Network:**

**Topology:** Ethernet (10BASE-T/100BASE-TX)

**Protocol:** TCP/IP, NetBEUI, IPX/SPX, AppleTalk



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## Options

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### PAPER FEED UNIT Type 3800C (500 × 1)


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- ❖ **Dimensions (W×D×H):**  
540 × 600 × 172 mm (21.3" × 23.7" × 6.8")
- ❖ **Paper Weight:**  
60 - 105 g/m<sup>2</sup> (16 - 28 lb)
- ❖ **Paper Size:**  
A5 (Long edge feed) - A3, 8<sup>1</sup>/<sub>2</sub>×11 - 11×17 (Short edge feed)

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### PAPER FEED UNIT Type 3800C (500 × 2)

---

- ❖ **Dimensions (W×D×H):**  
540 × 600 × 270 mm (21.3" × 23.7" × 10.7")
  - ❖ **Paper Weight:**  
60 - 105 g/m<sup>2</sup> (16 - 28 lb)
  - ❖ **Paper Size:**  
A5 (Long edge feed) - A3, 8<sup>1</sup>/<sub>2</sub>×11 - 11×17 (Short edge feed)
- 



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## Paper Bank PS470 (Large capacity tray)

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❖ **Dimensions (W×D×H):**

540 × 600 × 270 mm (21.3" × 23.7" × 10.7")

❖ **Paper Weight:**

60 - 105 g/m<sup>2</sup> (16 - 28 lb)

❖ **Paper Size:**

A4 (Long edge feed) or 8<sup>1</sup>/<sub>2</sub>×11 (Short edge feed)

---

## SR770 (2 Tray Finisher)

---

❖ **Dimensions (W×D×H):**

680 × 620 × 1,030 mm (26.8" × 24.4" × 40.6")

❖ **Paper Size:**

A5 (Long edge feed) - A3, 8<sup>1</sup>/<sub>2</sub>×11 - 11×17 (Short edge feed)

❖ **Paper Weight:**

60 - 105 g/m<sup>2</sup> (16 - 28 lb)

❖ **Stack Capacity:**

- Upper Tray:  
500 sheets (A4/11×8<sup>1</sup>/<sub>2</sub>/B5/A5 (Long edge feed) - 80 g/m<sup>2</sup>, 20 lbs.)
- Lower Tray  
2,000 sheets (A4/11×8<sup>1</sup>/<sub>2</sub> (Long edge feed) - 80 g/m<sup>2</sup>, 20 lbs.)  
750 sheets (A3, B4, A4 (Short edge feed), B5, 8<sup>1</sup>/<sub>2</sub>×14, 11×17, 8<sup>1</sup>/<sub>2</sub>×11 (Short edge feed))  
500 sheets (A5 (Long edge feed))



❖ **Weight:**

53 kg (116.9 lb)

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**PT460 (Multi bin)**

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❖ **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/m<sup>2</sup> (16 - 28 lb)

❖ **Stack Capacity:**

Tray 1: 100 sheets 80 g/m<sup>2</sup>

Tray 2: A4, smaller than 8 1/2×11→250 sheets sheets 80 g/m<sup>2</sup>

B4, Legal→100 sheets sheets 80 g/m<sup>2</sup>

❖ **Weight:**

Mainframe: 1.5 kg (.3.3 lb)

Tray: 0.49kg (1.0 lb)×2





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## Duplex Unit Type 3800C

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❖ **Dimensions (W×D×H):**

90 × 524 × 430 mm (3.6" × 20.7" × 17.0")

❖ **Paper Size:**

A5 (Long edge feed) - A3, 17×11 - 10<sup>1</sup>/<sub>2</sub>×7<sup>1</sup>/<sub>4</sub> (Long edge feed)

❖ **Weight:**

8 kg (3.6 lb)

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## Printer Hard Disk Type 3800C

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❖ **Storage Capacity (Formatted):**

20 GB, 40 GB

- Spool print data to collate
- Spool Sample/Locked Print data
- Store PostScript fonts

 **Note**

- You can install PostScript fonts with this optional Hard Disk Drive. With Macintosh, types of fonts supported are PostScript Type 1 and PostScript Type 2. To download them, use Printer Utility for Mac.





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## Memory Unit TypeB 64/128/256MB

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- ❖ **Module Type:**  
SO-DIMM (Small Outline Dual-in-line Memory Module)
- ❖ **Memory Type:**  
SDRAM (Synchronous Dynamic RAM)
- ❖ **Number of Pins:**  
144 pins

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## User Account Enhance Unit TypeB

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- ❖ **Capacity:**  
64 KB
  - Store User Code (Up to 400 users)

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## 1394 Interface Unit Type 1045

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- ❖ **Interface:**  
IEEE Std 1394-1955 compliant, IEEE Std 1394-2000 compliant.
- ❖ **Interface Connector:**  
IEEE 1394 (6 pin × 2)







## ❖ Required cable:

1394 interface cable (6 pin × 4 pin, 6 pin × 6 pin)

### Important

- You cannot plug devices together so as to create loops.
- Do not use a cable more than 4.5 meters long.

## ❖ Connectable number of device in a bus:

Maximum 63

## ❖ Allowed cable hops in a bus:

Maximum 16

## ❖ Data Transmission:

400 Mbps (Maximum)

## ❖ Power supply:

Non power supply

Cable Power repeated (IEEE 1394a-2000 compliant)

### Important

- In Windows 2000, the 1394 Interface Unit can only be used with Service Pack 1 or later. If the Service Pack is not installed, the connectable number of device in a 1394 bus is only one, and the client cannot access the 1394 Interface Unit without using an account has the Administrators permission.
- The optional 1394 Interface Unit is not supported by Windows 95/98/Me, Windows NT 4.0 and Macintosh.
- In Windows 95/98/Me and Windows 2000, if the "plug and play" function starts, click **[Cancel]** in the **[New Hardware Found]** or **[Device Driver Wizard]** dialog box.
- Do not plug or unplug the 1394 interface cable while installing the printer driver.



- Do not turn off or on the device while installing the printer driver.
- Do not uninstall the printer driver, when the 1394 Interface Unit is installed. Unplug the 1394 interface cable to uninstall the printer driver.

 **Note**

- The 1394 Interface Unit could not receive data from more than one PC at the same time. In this case, an error message appears. The printer can accept data sent from other PCs, after the first print job has finished.
- The bidirectional transmissions are not supported by the 1394 Interface Unit.
- When the 1394 Interface Unit is installed successfully, the printer icon automatically changes from "Use Printer Offline" to "Ready ", according to the 1394 interface cable plug.





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