

SHARP®

MODEL

MX-NB12

NETWORK EXPANSION KIT

OPERATION GUIDE

INTRODUCTION

The optional Network expansion kit (MX-NB12) enables the machine to be used as a network printer and a network scanner.

To use the machine as a PS printer, the PS3 expansion kit (MX-PK10) must be purchased and the product key (password) must be entered in "Product Key Setting" in the Web page (for the administrator). Please consult your dealer for the product key to be entered.



- This manual refers to the digital multifunction device equipped with the network function as "the machine".
- This manual only explains features that can be used when the optional Network expansion kit is installed. For information on loading paper, replacing toner cartridges, clearing paper misfeeds, handling peripheral devices, and other copier-related information, please refer to the Operation Guide for the machine.
- The machine's default settings and default settings for the printer function can be changed using the system settings. For more information, see the Operation Guide for the machine.
- The explanations in this manual assume that the person who will install the product and the users of the product have a working knowledge of Microsoft Windows.
- For information on the operating system, please refer to your operating system manual or the online Help function.
- The explanations of screens and procedures in this manual are for Windows Vista® in Windows® environments, and Mac OS X v10.6.4 in Macintosh environments. The screens may vary in other versions of the operating systems.
- This manual refers to the Reversing single pass feeder as the "RSPF" and the Single pass feeder as the "SPF". Unless specific mention is made, both the RSPF and the SPF are referred to simply as "SPF".
- Where "MX-XXXX" appears in this manual, please substitute the name of your model.

In some regions the "System settings guide" cited in this manual is a separate manual, and in other regions the "System settings guide" is included in the "Operation manual (for general information and copier)".

Warranty

While every effort has been made to make this Operation Guide as accurate and helpful as possible, SHARP Corporation makes no warranty of any kind with regard to its content. All information included herein is subject to change without notice. SHARP is not responsible for any loss or damages, direct or indirect, arising from or related to the use of this Operation Guide.

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SOFTWARE LICENCE

The SOFTWARE LICENCE will appear when you install the software from the CD-ROM. By using all or any portion of the software on the CD-ROM or in the machine, you are agreeing to be bound by the terms of the SOFTWARE LICENCE.

The display screens, messages, and key names shown in the manual may differ from those on the actual machine due to product improvements and modifications.

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CD-ROMS AND SOFTWARE

CD-ROMS IN THE NETWORK EXPANSION KIT

The Network expansion kit contains the following two CD-ROMs: "Software CD-ROM" and "Sharpdesk".



The Printer Status Monitor on the "Software CD-ROM" cannot be used when the machine is connected to your computer by a USB.

"Software CD-ROM"

The "Software CD-ROM" contains the following software programs:

Software for Windows

- **Integrated Installer**

This installs the included software.

- **Printer driver**

These allow the machine to be used as a printer.

- **PCL6 printer driver**

The machine supports the Hewlett-Packard PCL6 printer control languages.

- **PS printer driver**

The PS printer driver supports the PostScript 3 page description language developed by Adobe Systems Incorporated. The PS3 expansion kit must be installed.

- **PPD driver**

The PPD driver enables the machine to use the standard Windows PS printer driver. The PS3 expansion kit must be installed.

- **PC-Fax driver**

This enables you to send a fax from your computer to a fax machine via the machine (when the fax option is installed).

- **Scanner driver**

The scanner driver allows you to use the scanning function of the machine with TWAIN-compliant and WIA-compliant applications.

- **Printer Status Monitor**

This allows you to check the status of the network printer on your computer screen.

- **Button Manager**

Button Manager allows you to use the scanner menus on the machine to scan a document.

Software for Macintosh

- **PPD file**

This is the printer description file which enables the machine to be used as a PostScript 3 compatible printer. The PS3 expansion kit is required to use the machine in a Macintosh environment.

"Sharpdesk" CD-ROM (for Windows)

Sharpdesk is an integrated software environment that makes it easy to manage document and image files, and launch applications.

For information on the "Sharpdesk" CD-ROM and how to install Sharpdesk, see the "Sharpdesk installation guide" that accompanies the network expansion kit.

Sharpdesk (Desktop Document Management Software)

Sharpdesk is used to manage images scanned from the machine and files created in various software programs.

Network Scanner Tool

This is a utility that helps you use Scan to Desktop. The utility allows you to configure settings to receive scanned images from the machine to your computer. You can have Sharpdesk launch automatically when your computer receives a scanned image from the machine.

SHARP TWAIN AR/DM

This is used to acquire black and white images from a TWAIN interface into TWAIN-compliant software applications.

SYSTEM REQUIREMENTS

Before installing the software described in this manual, make sure that your computer satisfies the following requirements.

Computer type	IBM PC/AT or compatible computer equipped with a USB2.0*1 or 10Base-T/100Base-TX LAN interface
Operating system*2*3	Windows 2000 Professional, Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7
Display	1024 x 768 dots resolution and 16-bit colour or higher is recommended.
Hard disk free space	100 MB or more
Other hardware requirements	An environment on which any of the operating systems listed above can fully operate

*1 Compatible with Windows 2000 Professional, Windows XP Professional/Home Edition, Windows Vista or Windows 7 preinstalled model equipped standard with a USB port.

*2 Printing is not available in MS-DOS mode.

*3 Administrator's rights are required to install the software using the installer.

Installation environment and usable software

The following table shows the drivers and software that can be installed for each version of Windows and interface connection method.

	Cable	Operating System					
		Windows 2000	XP	Vista	7	Server 2003	Server 2008
MFP Printer Driver	USB	Yes	Yes	Yes	Yes	N/A	N/A
	LAN	Yes	Yes	Yes	Yes	Yes	Yes
MFP Scanner Driver	USB	Yes	Yes	Yes	Yes	N/A	N/A
	LAN	N/A	N/A	N/A	N/A	N/A	N/A
Button Manager	USB	Yes	Yes	Yes	Yes	N/A	N/A
	LAN	N/A	N/A	N/A	N/A	N/A	N/A
Printer Status Monitor	USB	N/A	N/A	N/A	N/A	N/A	N/A
	LAN	Yes	Yes	Yes	Yes	Yes	Yes
Sharpdesk	USB	N/A	Yes	Yes	Yes	N/A	N/A
	LAN	N/A	Yes	Yes	Yes	N/A	N/A
PC-Fax	USB	Yes	Yes	Yes	Yes	N/A	N/A
	LAN	Yes	Yes	Yes	Yes	Yes	Yes

SYSTEM SETTINGS FOR THE NETWORK EXPANSION KIT

The following table shows the system settings of network, printer, and scanner functions. Factory default settings are indicated in bold. When "YES, NO" appears in the "Settings" column of a program, the program is enabled by pressing the [OK] key so that a checkmark appears in the checkbox. A checkmark in the checkbox (☑) indicates that "YES" is selected. No checkmark (☐) indicates that "NO" is selected.



- The system settings that can be accessed depend on the machine and the options that are installed.
- The procedure for selecting a system setting is explained in "SELECTING A SETTING FOR A SYSTEM SETTING" in the Operation Guide for the machine.

Additional system settings

Mode	System settings	Settings	Explanation
NETWORK	ENABLE DHCP	YES, NO	Enable this setting if the machine will use an IP address that is assigned by a DHCP server. If DHCP is used, the IP address assigned to the machine may change automatically on occasion. If this happens, printing will not be possible. Change the port setting of the printer driver to the new IP address.
	IP ADDRESS SETTINGS • IP ADDRESS • SUBNETMASK • DEFAULT GATEWAY	–	If the machine will be assigned a permanent IP address, use these settings to enter the IP address, subnet mask, and default gateway. ☞ "ENABLING/DISABLING DHCP" (p.9)
PRINTER	NOTICE PAGE	YES, NO	Select whether or not a Notice Page (p.90) is printed when printing is not successful due to a memory full (or other) error.
	FORCED OUTPUT OF PRINT	YES, NO	When no tray has the specified size of paper, this setting is used to select whether or not the print job will be printed on the closest size of paper.
	OUTPUT TRAYS	CENTRE TRAY, UPPER TRAY	Specifies the output tray. When the printer driver is used to print, the setting in the printer driver has priority. (This setting is only available if a job separator tray is installed.)
SCANNER	DISABLE USB SCAN	YES, NO	Select whether or not scanning from a computer and scanning from the machine are disabled when a USB connection is used. When "YES" is selected, USB scanning is disabled.
	NEW DEFAULT	COLOUR MODE	This is used to change the default settings for the colour mode, format, and resolution.
		FORMAT	
		RESOLUTION	

SETTING THE IP ADDRESS OF THE MACHINE BY SYSTEM SETTINGS

Set the IP address of the machine in the system settings [\(p.8\)](#).

The procedure for selecting a system setting is explained in "SELECTING A SETTING FOR A SYSTEM SETTING" in the Operation Guide for the machine.

ENABLING/DISABLING DHCP

Use this setting to have the IP address obtained automatically using DHCP (Dynamic Host Configuration Protocol). When this setting is enabled, it is not necessary to manually enter an IP address.

SETTING THE IP ADDRESS AUTOMATICALLY

When the DHCP is set to on, set IP address of the machine by the following operation.

1 Turn the machine power off and then back on.

The IP address of the machine will be detected and set.



Note If DHCP is used, the IP address assigned to the machine may change automatically. If the IP address changes, printing will not be possible.

SETTING/CHANGING THE IP ADDRESS MANUALLY

Perform the following procedure to use a fixed IP address.

IP ADDRESS SETT- INGS
IP ADDRESS
▼ 0.0.0.0 ◀ ▶

1 Enter the IP address, subnet mask, and default gateway.

[▼][▲] keys	These move the cursor up and down to select "IP ADDRESS", "SUBNETMASK", and "DEFAULT GATEWAY".
[◀][▶] keys	These move the cursor left and right.
Numeric keys	These are used to enter numbers.
[C] key (C)	Use this to cancel an entry.
[BACK] key	This cancels an entry and returns you to the previous screen.
[CA] key (CA)	This cancels the setting and returns the display to the base screen of the mode that was in effect before the system settings were entered.
[SPECIAL FUNCTION] key	This cancels the setting and returns the display to the base screen of the mode that was in effect before the system settings were entered.



You cannot change the IP address if DHCP is set to on.

2 When you have completed all settings, press the [OK] key.

The settings will be saved after the message "Your setting will be valid after you power down and then restart the copier." disappears.

3 Turn off the machine power, wait for a few seconds, and then turn on the power again.

The new settings will take effect after the power is turned on.

INSTALLING THE SOFTWARE



- If you need to use a different connection method after installing the software using a USB or network connection, you must first uninstall the software and then install it using the new connection method.
- In the following explanations it is assumed that the mouse is configured for right hand operation.
- The scanner feature only works when using a USB cable.
- If an error message appears, follow the instructions on the screen to solve the problem. After the problem is solved, the installation procedure will continue. Depending on the problem, you may have to click the "Cancel" button to exit the installer. In this case, reinstall the software from the beginning after solving the problem.

USING THE MACHINE WITH A USB CONNECTION

- 1 The USB cable must not be connected to the machine. Make sure that the cable is not connected before proceeding.**

If the cable is connected, a Plug and Play window will appear. If this happens, click the "Cancel" button to close the window and disconnect the cable.



The cable will be connected in step 12.

- 2 Insert the "Software CD-ROM" into your computer's CD-ROM drive.**

- 3 Click the "Start" button, click "Computer", and then double-click the CD-ROM icon ().**

- In Windows XP, click the "start" button, click "My Computer", and then double-click the CD-ROM icon.
- In Windows 2000, double-click "My Computer", and then double-click the CD-ROM icon.

- 4 Double-click the "Setup" icon ().**

- In Windows 7, if a message screen appears asking you for confirmation, click "Yes".
- In Windows Vista, if a message screen appears asking you for confirmation, click "Allow".

- 5 The "SOFTWARE LICENCE" window will appear. Make sure that you understand the contents of the software licence, and then click the "Yes" button.**

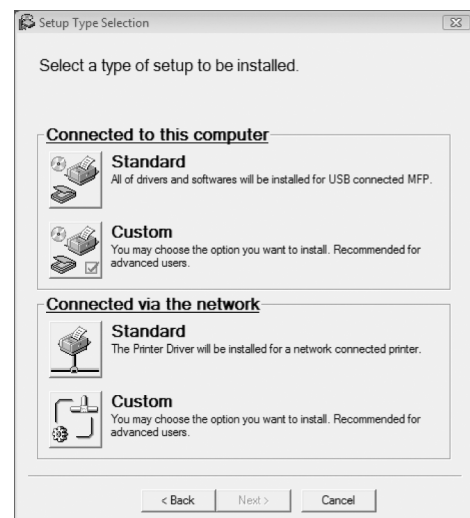


You can show the "SOFTWARE LICENCE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

- 6 Read the message in the "Welcome" window and then click the "Next" button.**

- 7 To install the software using the most general options, click the "Standard" button of the "Connected to this computer" menu and go to step 12.**

To install particular packages, click the "Custom" button and go to next step.



8 Click the "MFP Driver" button.

Click the "Display Readme" button to show information on packages that are selected.



9 The files required for installation of the MFP driver are copied.

Follow the on-screen instructions.

When "The installation of the SHARP software is complete." appears, click the "OK" button.

! Caution

- If you are using Windows Vista/7 and a security warning window appears, be sure to click "Install this driver software anyway".
- If you are running Windows 2000/XP and a warning message appears regarding the Windows logo test or digital signature, be sure to click "Continue Anyway" or "Yes".

10 You will return to the window of step 8. If you wish to install Button Manager, click the "Button Manager" button.

If you do not wish to install Button Manager, go to step 11.

Note

After the installation, a message prompting you to restart your computer may appear. In this case, click the "Yes" button to restart your computer.

11 When installing is finished, click the "Close" button.

! Caution

- If you are using Windows Vista/7 and a security warning window appears, be sure to click "Install this driver software anyway".
- If you are running Windows 2000/XP and a warning message appears regarding the Windows logo test or digital signature, be sure to click "Continue Anyway" or "Yes".

A message will appear instructing you to connect the machine to your computer. Click the "OK" button.

Note

After the installation, a message prompting you to restart your computer may appear. In this case, click the "Yes" button to restart your computer.

12 Make sure that the power of the machine is turned on, and then connect the USB cable (p.13).

Windows will detect the machine and a Plug and Play screen will appear.

13 Follow the instructions in the Plug and Play window to install the driver.

Follow the on-screen instructions.

! Caution

- If you are using Windows Vista/7 and a security warning window appears, be sure to click "Install this driver software anyway".
- If you are running Windows 2000/XP and a warning message appears regarding the Windows logo test or digital signature, be sure to click "Continue Anyway" or "Yes".

This completes the installation of the software.

If you installed Button Manager, set up Button Manager as explained in the Operation Guide for the machine.

CONNECTING A USB CABLE

Follow the procedure below to connect the machine to your computer.

A USB cable for connecting the machine to your computer is not included with the machine. Please purchase the appropriate cable for your computer.

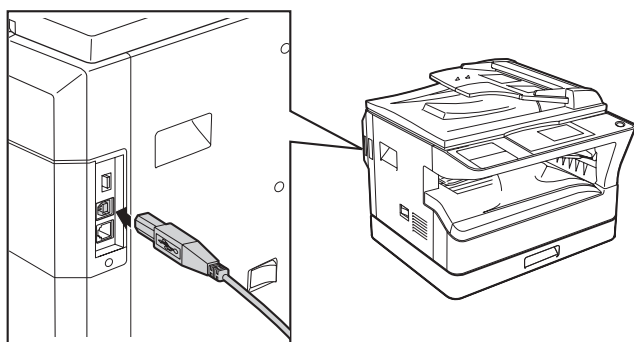
Caution

- USB is available with a PC/AT compatible computer that was originally equipped with USB and had Windows 2000 Professional, Windows XP Professional, Windows XP Home Edition, Windows Vista or Windows 7 preinstalled.
- Do not connect the USB cable before installing the MFP driver. The USB cable should be connected during installation of the MFP driver.

Note

- If the machine will be connected using a USB 2.0 port of your computer, please purchase a USB cable that supports USB 2.0.
- Even when the Microsoft USB 2.0 driver is used, it may not be possible to obtain full USB 2.0 speed if a PC card supporting USB 2.0 is used. To obtain the latest driver (which may enable a higher speed), contact the manufacturer of your PC card.
- Connection is also possible using a USB 1.1 port on your computer. However, the specifications will be USB 1.1 specifications (Full-Speed).

1 Insert the cable into the USB connector on the machine.



2 Insert the other end of the cable into your computer's USB port.

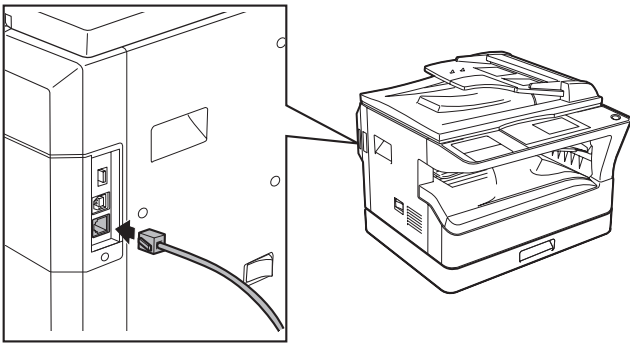
USING THE MACHINE AS A NETWORK PRINTER



Interface cables for connecting the machine to your computer are not included with the machine. Please purchase the appropriate cable for your computer.

1 Insert the LAN cable into the LAN connector on the machine.

Use a network cable that is shielded.



2 Turn on the machine.

3 Insert the "Software CD-ROM" into your computer's CD-ROM drive.

4 Click the "Start" button, click "Computer", and then double-click the CD-ROM icon ().

- In Windows XP, click the "start" button, click "My Computer", and then double-click the "CD-ROM" icon.
- In Windows 2000, double-click "My Computer", and then double-click the CD-ROM icon.

5 Double-click the "Setup" icon ().

- In Windows 7, if a message screen appears asking you for confirmation, click "Yes".
- In Windows Vista, if a message screen appears asking you for confirmation, click "Allow".

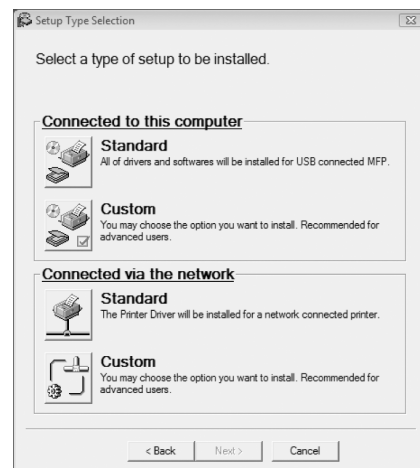
6 The "SOFTWARE LICENCE" window will appear. Make sure that you understand the contents of the licence agreement, and then click the "Yes" button.



You can show the "SOFTWARE LICENCE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

7 Read the message in the "Welcome" window and then click the "Next" button.

8 Click the "Standard" button of the "Connected via the network" menu.



9 Printers connected to the network are detected. Select the machine and click the "Next" button.



- If the machine is not found, make sure that the machine is powered on and that the machine is connected to the network, and then click the [Re-search] button.
- You can also click the [Specify condition] button and search for the machine by entering the machine's name (host name) or IP address.
To check the IP address of the machine, see "SETTING/CHANGING THE IP ADDRESS MANUALLY" (p.10).

10 A confirmation window appears. Check the contents and then click the "Next" button.

11 When the printer driver selection window appears, select the printer driver to be installed and click the "Next" button.

Select the checkboxes of the printer drivers to be installed.

12 Select whether or not you wish the printer to be your default printer and click the "Next" button.

If you are installing multiple printer drivers, select the printer driver to be used as the default printer. If you do not wish to set either printer driver as the default printer, select "No".



If you clicked the "Custom" button in step 8, the following windows will appear.

- **Printer name window**
If you wish to change the printer name, enter the desired name and click the "Next" button.
- **Window confirming installation of the display fonts**
To install the display fonts for the PCL printer driver, select "Yes" and click the "Next" button.

13 Follow the on-screen instructions.

Read the message in the window that appears and click the "Next" button. Installation begins.



- **If you are using Windows 2000/XP/Server 2003**
If a warning message regarding the Windows logo test or digital signature appears, be sure to click the "Continue Anyway" or "Yes" button.
- **If you are using Windows Vista/7**
If a security warning window appears, be sure to click "Install this driver software anyway".

14 When the installation completed screen appears, click the "OK" button.

15 Click the "Close" button.



After the installation, a message prompting you to restart your computer may appear. In this case, click the "Yes" button to restart your computer.

This completes the installation of the software.

- After installation, see "CONFIGURING THE PRINTER DRIVER" (p.19) to check the printer driver settings.
- To install the Printer Status Monitor, see "INSTALLING THE PRINTER STATUS MONITOR" (p.18).

SHARING THE PRINTER USING WINDOWS NETWORKING

If the machine will be used as a shared printer on a network, follow these steps to install the printer driver in the client computer.



To configure the appropriate settings in the print server, see the operation manual or help file of your operating system.

"Print server" as explained here, is a computer that is directly connected to the machine, and a "Client" is any other computer that is connected to the same network.

1 Insert the "Software CD-ROM" into your computer's CD-ROM drive.

2 Click the "Start" button, click "Computer", and then double-click the CD-ROM icon ().

- In Windows XP, click the "start" button, click "My Computer", and then double-click the "CD-ROM" icon.
- In Windows 2000, double-click "My Computer", and then double-click the CD-ROM icon.

3 Double-click the "Setup" icon ().

- In Windows 7, if a message screen appears asking you for confirmation, click "Yes".
- In Windows Vista, if a message screen appears asking you for confirmation, click "Allow".

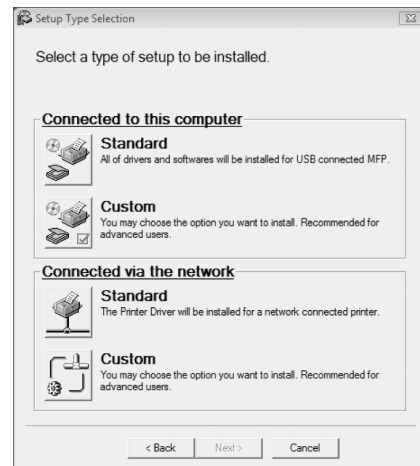
4 The "SOFTWARE LICENCE" window will appear. Make sure that you understand the contents of the licence agreement, and then click the "Yes" button.



You can show the "SOFTWARE LICENCE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

5 Read the message in the "Welcome" window and then click the "Next" button.

6 Click the "Custom" button of the "Connected via the network" menu.



7 Click the "Printer Driver" button.

To view information on the software, click the "Display Readme" button.

8 Select "Shared Printer" and click the "Next" button.

9 For the port to be used, select the machine set as a shared printer, and click the "Next" button.

If you are using Windows 2000/XP, you can also click the "Add Network Port" button and select the printer to be shared by browsing the network in the window that appears. (In Windows Vista/7, the "Add Network Port" button does not appear.)



If the shared printer does not appear in the list, check the settings in the printer server.

10 When the model selection window appears, select model name of your machine and click the "Next" button.

11 When the printer driver selection window appears, select the printer driver to be installed and click the "Next" button.

Be sure to select the same printer driver as the printer driver used in the print server (the machine).

12 Follow the on-screen instructions.

Read the message in the window that appears and click the [Next] button.
Installation begins.



- **If you are using Windows 2000/XP/Server 2003**

If a warning message regarding the Windows logo test or digital signature appears, be sure to click the "Continue Anyway" or "Yes" button.

- **If you are using Windows Vista/Server 2008/7**

If a security warning window appears, be sure to click "Install this driver software anyway".

13 When the installation completed screen appears, click the "OK" button.

14 Click the "Close" button in the window of step 6.

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the "Yes" button to restart your computer.

This completes the installation of the software.

- After installation, see "CONFIGURING THE PRINTER DRIVER" ([p.19](#)) to check the printer driver settings.
- To install the Printer Status Monitor, see "INSTALLING THE PRINTER STATUS MONITOR" ([p.18](#)).

INSTALLING THE PRINTER STATUS MONITOR

1 Insert the "Software CD-ROM" into your computer's CD-ROM drive.

2 Click the "Start" button, click "Computer", and then double-click the CD-ROM icon ().

- In Windows XP, click the "start" button, click "My Computer", and then double-click the "CD-ROM" icon.
- In Windows 2000, double-click "My Computer", and then double-click the CD-ROM icon.

3 Double-click the "Setup" icon ().

- In Windows 7, if a message screen appears asking you for confirmation, click "Yes".
- In Windows Vista, if a message screen appears asking you for confirmation, click "Allow".

4 The "SOFTWARE LICENCE" window will appear. Make sure that you understand the contents of the licence agreement, and then click the "Yes" button.



You can show the "SOFTWARE LICENCE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

5 Read the message in the "Welcome" window and then click the "Next" button.

6 Click the "Custom" button of the "Connected via the network" menu.

7 Click the "Printer Status Monitor" button.

To view information on the software, click the "Display Readme" button.



8 Follow the on-screen instructions.

Read the message in the window that appears and click the [Next] button. Installation begins.

9 When the installation completed screen appears, click the "Finish" button.

To have the Printer Status Monitor start automatically when your computer is started, select the "Add this program to your Startup folder" checkbox.

10 Click the "Close" button in the window of step 6.



After the installation, a message prompting you to restart your computer may appear. If this message appears, click the "Yes" button to restart your computer.

This completes the installation.

For the procedures for using the Printer Status Monitor, see the Help file. Follow these steps to view the Help file:

Click the Windows "Start" button, select "All Programs" ("Programs" in Windows 2000), select "SHARP Printer Status Monitor" and then select "Help".

CONFIGURING THE PRINTER DRIVER

After installing the printer driver, you must configure the printer driver settings appropriately for the number of paper trays on the machine and the size of paper loaded in each tray.

1 Click the "Start" button, click "Control Panel", and then click "Printer".

- In Windows 7, click the "Start" button and then click "Devices and Printers".
- In Windows XP/Server 2003, click the "start" button and then click "Printers and Faxes".
- In Windows 2000, click the "Start" button, select "Settings", and then click "Printers".



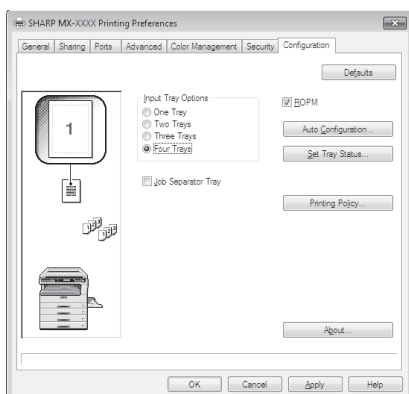
In Windows XP, if "Printers and Faxes" does not appear in the "start" menu, select "Control Panel", select "Printers and Other Hardware", and then select "Printers and Faxes".

2 Click the "SHARP MX-XXXX" printer driver icon and select "Properties" from the "Organize" menu.

- In Windows 7, right-click the "SHARP MX-XXXX" printer driver icon, and then click "Printer properties".
- In Windows XP/2000, select "Properties" from the "File" menu.

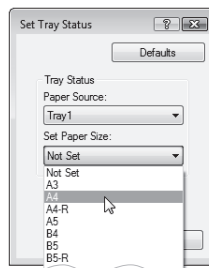
3 Click the "Configuration" tab and set the printer configuration based on the options that have been installed.

Set the printer configuration properly. Otherwise, printing may not take place correctly.



To automatically configure the settings based on the detected machine status, click the "Auto Configuration" button.

4 Click the "Set Tray Status" button and select the size of paper that is loaded in each tray.



Select a tray in the "Paper Source" menu, and select the size of paper loaded in that tray from the "Set Paper Size" menu. Repeat for each tray.

5 Click the "OK" button in the "Set Tray Status" window.

6 Click the "OK" button in the printer properties window.

3

PRINTER FUNCTIONS

This chapter explains how to use the printer functions.

The procedure for loading paper is the same as for loading copy paper. See the Operation Guide for the machine.



- Print jobs received while the machine is copying or scanning will be stored in memory. When the copy job is finished, the print jobs will begin printing.
- Printing is not possible when the front or side cover is opened for machine maintenance, or when a misfeed occurs or the machine runs out of paper or toner, or when the drum cartridge reaches its replacement time.
- If an original misfeed occurs in the SPF/RSPF, printing will not be possible until the misfed original is removed and the SPF/RSPF is restored to a usable state.

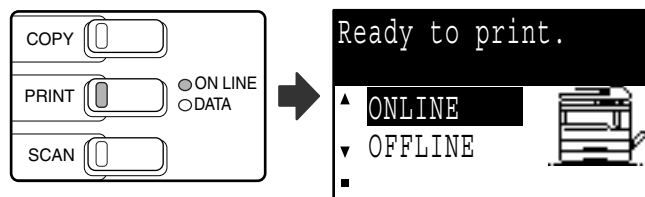
BASIC PRINTING

The following example explains how to print a document from WordPad.

Before printing, make sure that the correct size of paper for your document has been loaded in the machine.

1 Make sure that the ONLINE indicator on the operation panel is lit.

If the ONLINE indicator is not on, press the [PRINT] key to switch to printer mode and then use the [▲] key to select "ONLINE".



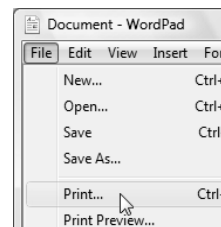
The status of the printer function is indicated by the ONLINE and DATA indicators above the [PRINT] key.

	ONLINE indicator	DATA indicator
Lit	The machine is online. Printing is possible.	There is print data in memory that has not been printed yet.
Blinking	A print job is being cancelled.	Printing is in progress or data is being received.
Off	The machine is offline. Printing is not possible.	There is no print data in memory and print data is not being received.

2 Start WordPad and open the document that you wish to print.

3 Select [Print] from the application's [File] menu.

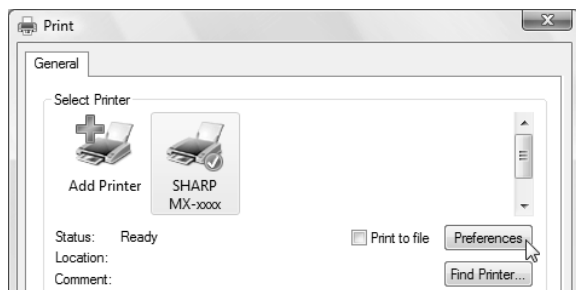
The "Print" dialog box will appear.



4 Make sure that "SHARP MX-xxxx" is selected as the printer.

If you need to change any print settings, click the [Preferences] button to open the printer driver setup screen.

The printer driver setup screen will appear.



Windows 2000 does not have the [Preferences] button in this dialog box. Select settings as needed on each of the tabs in the setup screen and click the [OK] button.

- "PRINTER DRIVER SETTINGS" (p.25),
- "TWO-SIDED PRINTING (ONLY FOR MODELS THAT SUPPORT TWO-SIDED PRINTING)" (p.26),
- "PRINTING MULTIPLE PAGES ON ONE PAGE" (p.28),
- "FITTING THE PRINTED IMAGE TO THE PAPER" (p.29),
- "ROTATING THE PRINT IMAGE 180 DEGREES" (p.30),
- "CREATING OVERLAYS FOR PRINT DATA" (p.31),
- "PRINTING THE FRONT COVER PAGE ON DIFFERENT PAPER" (p.32),
- "ADDING INSERTS WHEN PRINTING" (p.33)
- "PRINTING A WATERMARK" (p.34)
- "PRINTING TEXT AND LINES IN BLACK" (p.35)
- "SAVING FREQUENTLY USED PRINT SETTINGS" (p.36)

5 Click the [Print] button.

Printing begins.



When the job separator tray is installed

The output tray can be selected when selecting print settings at the time of printing. To change the tray selection, select the desired tray in "Output" in the [Paper] tab of the printer driver setup screen.

IF THE TRAY RUNS OUT OF PAPER DURING PRINTING

Add paper to the tray that ran out or to the bypass tray. If you add paper to the bypass tray, press the [PRINT] key on the machine to switch to printer mode and select "BYPASS-TRAY". Printing will resume. Note that if the "AUTO TRAY SWITCHING" setting is selected in the "PAPER SIZE SET" (accessed by pressing the [SPECIAL FUNCTION] key) and there is the same size of paper in another tray, the machine will automatically switch to the other tray and continue printing.

PAUSING A PRINT JOB

To pause a print job, press the [PRINT] key on the machine to switch to printer mode and then select "OFFLINE" with the [▼] key. The machine pauses the print job and then goes offline.

- To cancel a print job, press the [C] key (□).
- To resume printing, select "ONLINE" with the [▲] key.

WHEN "PAPER SOURCE" IS SET TO [AUTO SELECT]

If "Paper Source" is set to [Auto Select] in the [Paper] tab of the printer driver setup screen and the correct size of paper for a print job is not loaded in the machine, the printing procedure will vary depending on the "FORCED OUTPUT OF PRINT" setting (p.8) in the system settings.

When "FORCED OUTPUT OF PRINT" is disabled

Add paper to the bypass tray, press the [PRINT] key on the machine to switch to printer mode, and select "BYPASS-TRAY". Printing will resume.

When "FORCED OUTPUT OF PRINT" is enabled

The closest size of paper in a tray other than the bypass tray will be used for printing.



If the print image is in a different orientation than the paper, the print image will be automatically rotated 90 degrees to enable correct printing on the paper. (Other than the bypass tray)

HOW [BYPASS TRAY] AND [BYPASS MANUAL] DIFFER IN THE "PAPER SOURCE" SETTINGS

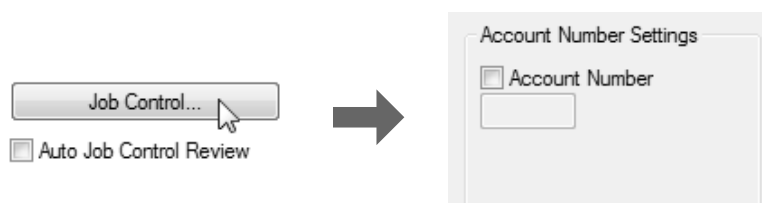
There are two bypass tray settings in "Paper Source" in the [Paper] tab of the printer driver setup screen:

- When [Bypass Tray] is selected, the print job is automatically printed on the paper in the bypass tray.
- When [Bypass Manual] is selected, the print job is not printed until paper is inserted into the bypass tray. If paper is already in the bypass tray, remove the paper and then re-insert it to begin printing.

AUDITING MODE

When "AUDITING MODE" is enabled in the system settings, a 5-digit account number must be entered in the printer driver setup screen in order to print. Account numbers are stored in the system settings.

To open the account number entry screen, click the [Job Control] button in the [Main] tab of the printer driver setup screen.



Click the checkbox on the left side of "Account Number" so that a checkmark appears, enter your 5-digit account number, and click the [OK] button.



When the [Auto Job Control review] checkbox is clicked, the account number confirmation screen always appears before printing starts.



- If "CANCEL JOBS OF INVALID ACCOUNTS" is enabled in the system settings and printing is attempted without entering an account number or an invalid account number is entered, printing will not take place. To allow printing without the entry of a valid account number, disable "CANCEL JOBS OF INVALID ACCOUNTS". In this case, the number of pages printed is added to the "OTHERS" count.
- When the PPD file* is used in Windows, auditing mode cannot be used in the printer function. For this reason, do not enable "CANCEL JOBS OF INVALID ACCOUNTS" in the system settings as this will prevent printing. Printed pages will be added to the "OTHERS" count.

* The PPD file enables the machine to print using the standard PS driver of the operating system.

OPENING THE PRINTER DRIVER FROM THE "Start" BUTTON

To change the printer driver settings, follow the steps below. Settings adjusted in this way will be the initial settings when you print from an application. (If you change the settings in the printer driver setup screen at the time of printing, the settings will revert to the initial settings when you quit the application.)

1 Click the "Start" button and select "Control Panel" and then select "Printer".

- In Windows 7, click the "Start" button and then click "Devices and Printers".
- In Windows XP, click the "start" button, and then click "Printers and Faxes".
- In Windows 2000, click the "Start" button and point to "Settings", and then select "Printers".



In Windows XP, if "Printers and Faxes" does not appear in the "start" menu, select "Control Panel", select "Printers and Other Hardware", and then select "Printers and Faxes".

2 Click the "SHARP MX-XXXX" printer driver icon.

3 Select "Properties" from the "Organize" menu.

- In Windows 7, right-click the "SHARP MX-XXXX" printer driver icon, and then click "Printer properties".
- In Windows XP/2000, select "Properties" from the "File" menu.


4 Click the "Printing Preferences" button in the "General" tab.

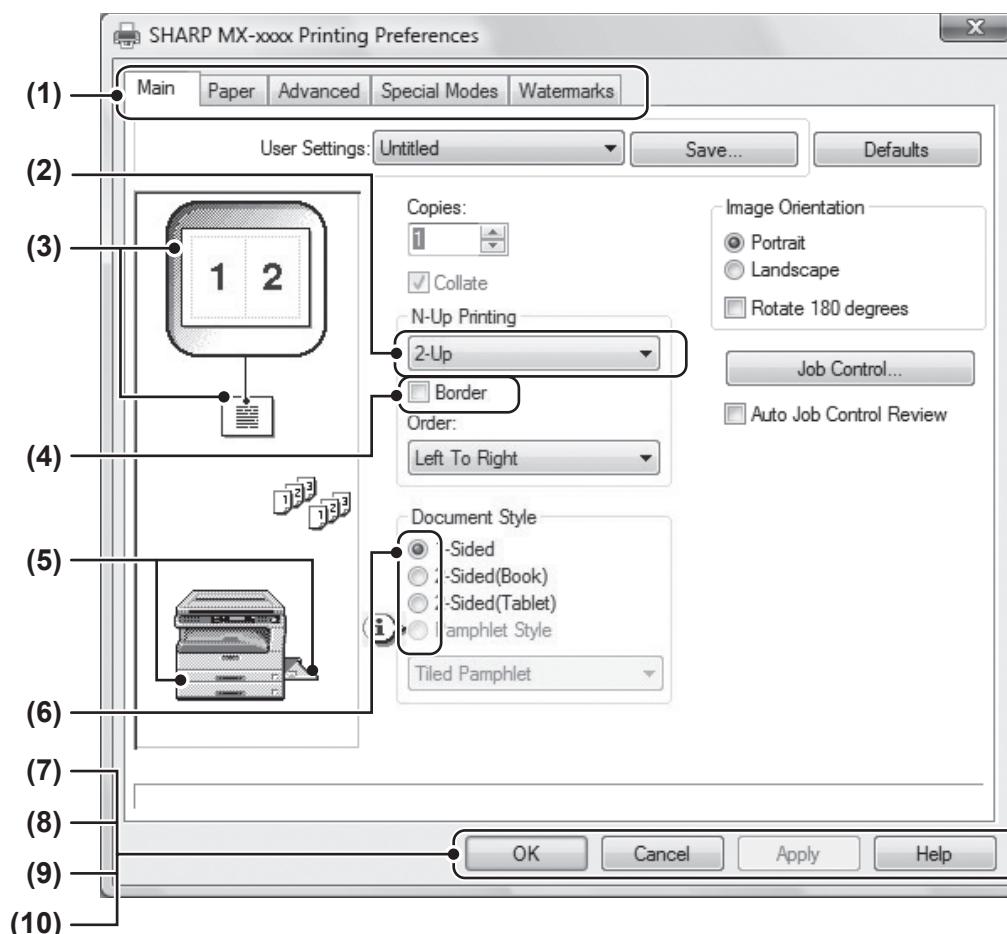
In Windows 7, click the "Preferences" button in the "General" tab.

The printer driver setup screen will appear.

🔍 "PRINTER DRIVER SETTINGS" ([p.25](#))

PRINTER DRIVER SETTINGS

Some restrictions exist on the combinations of settings that can be selected in the printer driver setup screen. When a restriction is in effect, an information icon () will appear next to the setting. Click the icon to view an explanation of the restriction.



(1) Tab

The settings are grouped on tabs. Click on a tab to bring it to the front.

(2) Drop-down list

Allows you to make a selection from a list of choices.

(3) Print setting image

This shows the effect of the selected print settings.

(4) Checkbox

Click on a checkbox to activate or deactivate a function.

(5) Machine image

The paper tray (in blue) selected in "Paper Selection" on the "Paper" tab.

You can also click on a tray to select it.

(6) Check button

Allows you to select one item from a list of options.

(7) "OK" button

Click this button to save your settings and exit the dialog box.

(8) "Cancel" button

Click this button to exit the dialog box without making any changes to the settings.

(9) "Apply" button

Click to save your settings without closing the dialog box.



The "Apply" button does not appear when you open this window from an application.

(10) "Help" button

Click this button to display the help file for the printer driver.



- The settings and the image of the machine will vary depending on the model. If a tray or job separator tray option is installed, see "CONFIGURING THE PRINTER DRIVER" in "3. TROUBLESHOOTING AND USEFUL INFORMATION" in the "Software setup guide" to configure the settings for the option.
- For information on the printer function, see "PRINTER DRIVER SPECIFICATIONS" (p.97).

TWO-SIDED PRINTING (ONLY FOR MODELS THAT SUPPORT TWO-SIDED PRINTING)

On models that have the two-sided printing function, both sides of the paper can be printed on.

To use this function, open the printer driver setup screen and select "2-Sided(Book)" or "2-Sided(Tablet)" from "Document Style" in the "Main" tab.

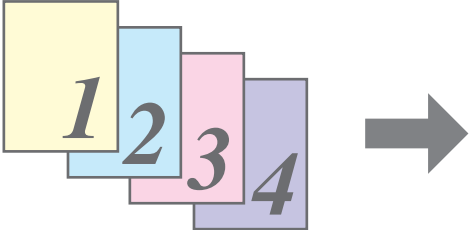
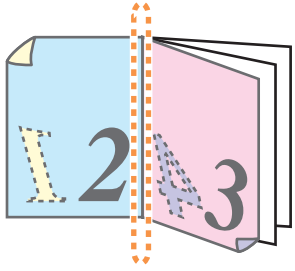
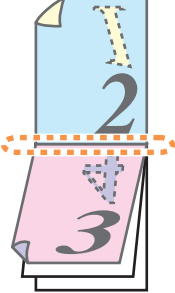
See "BASIC PRINTING" ([p.20](#)) for details on how to open the printer driver.

Two-sided printing also helps conserve paper.



- Paper sizes that can be used for two-sided printing are A3, A4, A5, B4, B5, Ledger, Letter, Legal and Foolscap.
- The bypass tray cannot be used for two-sided printing.

The following example shows the result when portrait data is printed on both sides of the paper.

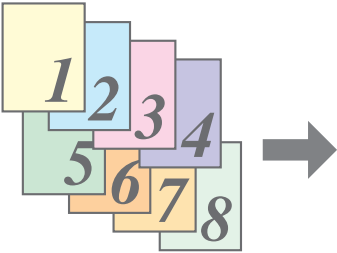
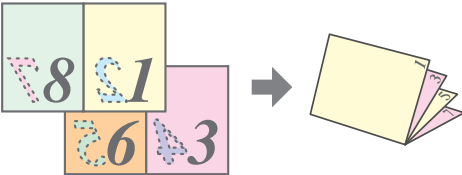
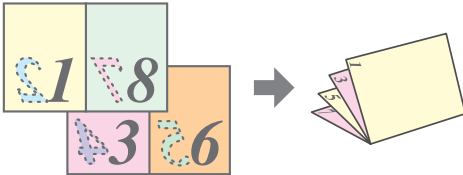
Print data	Printing result	
	2-Sided(Book)	2-Sided(Tablet)
		
	The pages are printed so that they can be bound at the side.	The pages are printed so that they can be bound at the top.

PAMPHLET STYLE

Pamphlet style prints two pages each on the front and back of each sheet of paper (four pages total on one sheet) so that the sheets can be folded down the centre and bound to create a pamphlet. This function is convenient when you wish to compile printed pages into a pamphlet.

To use this function, open the printer driver and select "Titled Pamphlet" or "2-Up Pamphlet" in "Document Style" in the "Main" tab.

The direction of opening of the pamphlet can be selected with the "Right Turning Pamphlet" checkbox in the "Advanced" tab. The following examples show how 8 pages are printed when "Titled Pamphlet" is selected.

Print data	Printing result	
	<input type="checkbox"/> Right Turning Pamphlet	<input checked="" type="checkbox"/> Left Turning Pamphlet
		



- Only letter, invoice, A4 and A5 size paper can be used for pamphlet style printing.
- Because four pages are printed on each sheet of paper, blank pages are automatically added at the end when the total number of pages is not a multiple of four.
- When "Titled Pamphlet" is selected, printing will take place on paper that is twice the size of the paper size specified in the application.
- When "2-Up Pamphlet" is selected, each page is reduced in the same way as for 2-Up and printed on the size of paper that is specified in the application.


PRINTING MULTIPLE PAGES ON ONE PAGE

This feature allows you to reduce and print two, four, six, eight or sixteen document pages on a single sheet of paper.

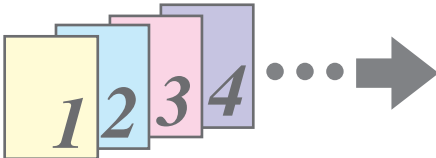
To use this function, open the printer driver setup screen and select the number of pages per sheet (2-Up, 4-Up, 6-Up, 8-Up, 9-Up, or 16-Up) in "N-Up Printing" in the "Main" tab.

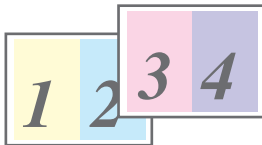
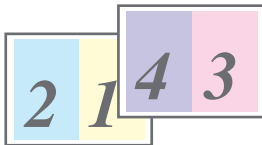




The order of the pages can be changed in the "Order" menu.

See "BASIC PRINTING" (p.20) for details on how to open the printer driver.


 **Note** The "N-Up Printing" setting is not available when "Fit To Paper Size" is selected.
See "FITTING THE PRINTED IMAGE TO THE PAPER" (p.29)

For example, when "2-Up" or "4-Up" is selected, the result will be as follows depending on the selected order.



N-Up	Left to Right	Right to Left		
[2-Up]				
N-Up	Upper-Left To Right	Upper-Left To Bottom	Upper-Right To Left	Upper-Right To Bottom
[4-Up]				

If you select the "Border" checkbox, borderlines will be printed around each page.

 **Note** Examples for 2-Up and 4-Up are shown here. The order of 6-Up, 8-Up, 9-Up, and 16-Up is the same as 4-Up. The order can be viewed in the print setting image in the printer driver setup screen.
See "PRINTER DRIVER SETTINGS" (p.25)

FITTING THE PRINTED IMAGE TO THE PAPER

The printer driver can adjust the size of the printed image to match the size of the paper loaded in the machine. Follow the steps shown below to use this function. The explanation below assumes that you intend to print A4 (letter) size document onto B5 (invoice) size paper.

See "BASIC PRINTING" ([p.20](#)) for details on how to open the printer driver.



The "Fit To Paper Size" setting is not available when "N-Up Printing" is selected.

See "PRINTING MULTIPLE PAGES ON ONE PAGE" ([p.28](#))

1 Click the "Paper" tab in the printer driver setup screen.

2 Select the original size (A4 (letter)) of the print image in "Paper Size".

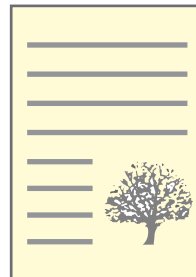
3 Select "Fit To Paper Size".

4 Select the actual size of paper to be used for printing (B5 (invoice)).

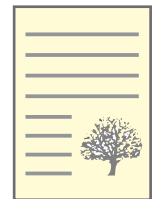
The size of the printed image will be automatically adjusted to match the paper loaded in the machine.

Paper Size: A4 (letter)

Fit To Paper Size: B5 (invoice)



A4 or Letter size
document
(Paper Size)



B5 or Invoice size
paper
(Fit To Paper Size)

ROTATING THE PRINT IMAGE 180 DEGREES

The print image can be rotated 180 degrees.
This feature rotates the print image 180 degrees to enable correct printing on paper that can only be loaded in one orientation.
To use the function, select the image orientation in "Image Orientation" on the "Main" tab, and then select the "Rotate 180 degrees" checkbox.
See "BASIC PRINTING" (p.20) for details on how to open the printer driver.

Printing result	
<input checked="" type="checkbox"/> Rotate 180 degrees	<input type="checkbox"/> Rotate 180 degrees
<div>DCBA</div>	<div>ABCD</div>

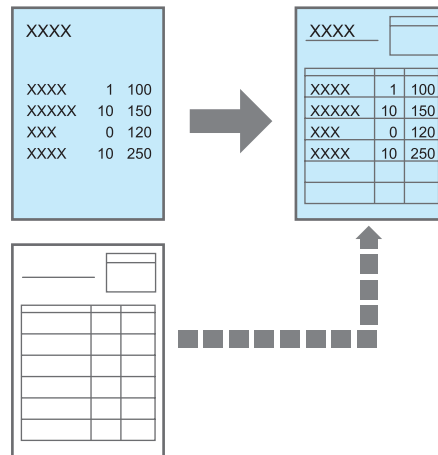


The procedure for loading paper is explained in the Operation Guide for the machine.

CREATING OVERLAYS FOR PRINT DATA

The print data can be printed in a previously created overlay. By creating table rulings or a decorative frame in an application different from that of the text file and registering the data as an overlay file, an attractive print result can be easily obtained without the need for complex manipulations.

See "BASIC PRINTING" (p.20) for details on how to open the printer driver.



CREATING AN OVERLAY FILE

To register an overlay file, create a document with any application and perform the following procedure.

1 Click the "Advanced" tab in the printer driver setup screen.

Configure the printer driver settings from the software application that you wish to use to create the overlay file.

2 Click the "Edit" button.

3 Click the "Create Overlay" button and specify the name and folder to be used for the overlay file that you wish to create.

The file will be created when the settings are completed and printing is started.



- When printing is started, a confirmation message will appear. The overlay file will not be created until the "Yes" button is clicked.
- To register a previously existing overlay file, click the "Load Overlay" button.

PRINTING WITH AN OVERLAY FILE

1 Click the "Advanced" tab in the printer driver setup screen.

Configure the printer driver settings from the application from which you wish to print using the overlay file.

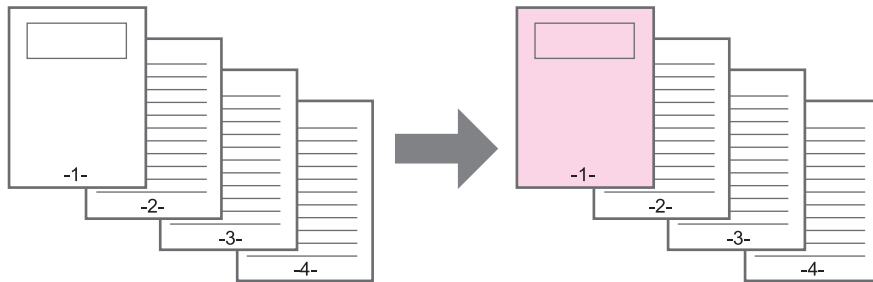
2 Select an overlay file.

A previously created or stored overlay file can be selected from the pull-down menu.

PRINTING THE FRONT COVER PAGE ON DIFFERENT PAPER

The front cover page of a document can be printed on paper that is different from the other pages. Use this function when you wish to print the front cover page on a different type of paper.

See "BASIC PRINTING" (p.20) for details on how to open the printer driver.



1 Click the "Special Modes" tab in the printer driver setup screen.

2 Select "Different Paper" and click the "Settings" button.

3 Check the "Cover Page" box.

4 From the "Paper Source" drop-down list, select the tray that you wish to feed paper.



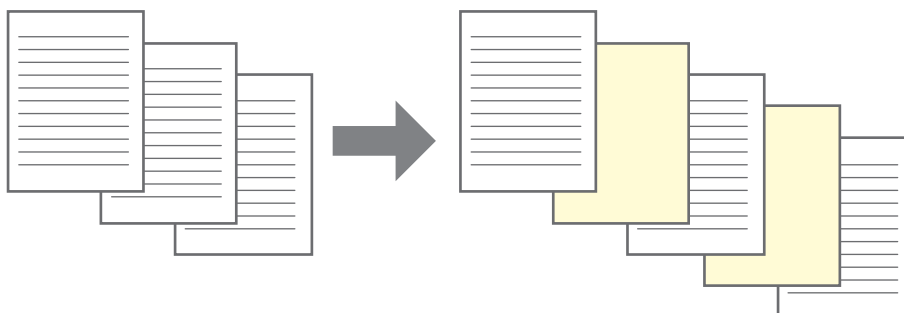
Note

- When "Bypass Tray" is selected in "Paper Source", be sure to load paper in the bypass tray.
- If the "2-Sided" box is checked, the front cover page and the next page after it will be printed on the front and reverse side of the paper.

ADDING INSERTS WHEN PRINTING

An identical insert page can be interleaved after each printed page.

See "BASIC PRINTING" ([p.20](#)) for details on how to open the printer driver.



1 Click the "Special Modes" tab in the printer driver setup screen.

2 Select "Page Interleave" and click the "Settings" button.

3 From the "Overlays" drop-down list, select the overlay file that you wish to print.

When you want to insert blank pages, select "No Overlay".



The overlay files must be created in advance. To create an overlay file, see "CREATING OVERLAYS FOR PRINT DATA" ([p.31](#)).

4 Specify the position to insert the page data in "Insert Position".

PRINTING A WATERMARK

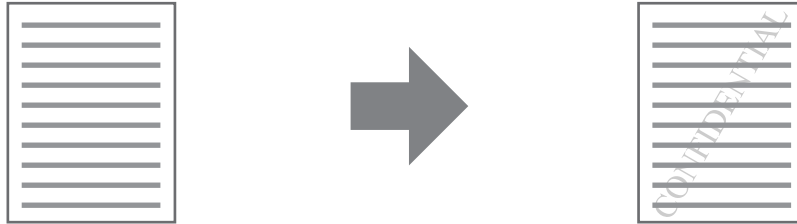
You can print a watermark such as "CONFIDENTIAL" on your document. To print a watermark, open the printer driver, click the "Watermarks" tab, and follow the steps below.

See "BASIC PRINTING" ([p.20](#)) for details on how to open the printer driver.

HOW TO PRINT A WATERMARK

From the "Watermark" drop-down list, select the watermark that you wish to print (for example "CONFIDENTIAL"), and start printing.

Print sample



You can enter text to create your own custom watermark. For details on watermark settings, view printer driver Help.


See "PRINTER DRIVER SETTINGS" ([p.25](#))

PRINTING TEXT AND LINES IN BLACK

Colour text and lines that are normally printed in light colour can be printed in black. Colour text and lines that are faint when printed normally can be printed in black to improve legibility.

PRINTING TEXT IN BLACK

Text that is any colour other than white is printed in black.
To use this function, open the printer driver setup screen and select the "Text To Black" checkbox in the "Advanced" tab.

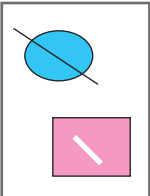

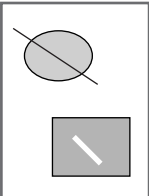
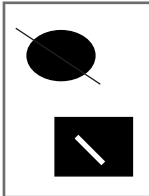
Print data	Printing result	
	<input type="checkbox"/> Text To Black	<input checked="" type="checkbox"/> Text To Black
<div>ABCD EFGH</div> 	<div>ABCD EFGH</div>	<div>ABCD EFGH</div>



If "Print as graphics" is selected in "TrueType Mode" of "Font" in the "Advanced" tab, this function cannot be used.

PRINTING LINES AND VECTOR GRAPHICS IN BLACK

Lines and solids that are any colour other than white are printed in black.
To use this function, open the printer driver setup screen and select the "Vector To Black" checkbox in the "Advanced" tab.

Print data	Printing result	
	<input type="checkbox"/> Vector To Black	<input checked="" type="checkbox"/> Vector To Black
 		



If "Raster" is selected in "Graphics Mode" in the "Advanced" tab, this function cannot be used.

SAVING FREQUENTLY USED PRINT SETTINGS

Settings configured on each of the tabs at the time of printing can be saved as user settings. Saving frequently used settings or complex colour settings under an assigned name makes it easy to select those settings the next time you need to use them.

SAVING SETTINGS AT THE TIME OF PRINTING

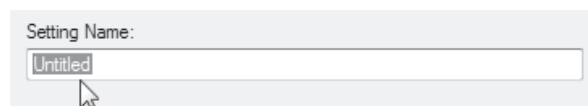
Settings can be saved from any tab of the printer driver properties window. Settings configured on each tab are listed at the time of saving, allowing you to check the settings as you save them.

For the steps for opening the printer driver, see "BASIC PRINTING" (p.20).

1 Configure print settings on each tab and click the "Save" button on any tab.



2 After checking the displayed settings, enter a name for the settings (maximum of 20 characters).

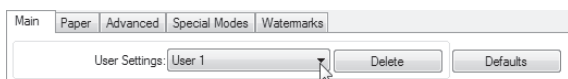


- Up to 30 sets of user settings can be saved.
- A watermark that you created cannot be saved in user settings.

3 Click the "OK" button.

Using saved settings

Select the user settings that you wish to use on any tab.



Deleting saved settings

Select the user settings that you want to delete in "Using saved settings" (above), and click the "Delete" button.

PRINTER STATUS MONITOR

"Printer Status Monitor" is on the "Software CD-ROM".

This allows the user to check on the computer screen whether or not the machine is able to print.

It provides information on error states such as paper misfeeds and shows the configuration of the machine (number of trays, etc.) by means of illustrations. Available paper sizes and presence or absence of paper are also indicated.



- In order to use the Printer Status Monitor, the machine must be connected to a network.
- To install the Printer Status Monitor, see "INSTALLING THE PRINTER STATUS MONITOR" ([p.18](#)).

BEFORE USING THE PRINTER STATUS MONITOR

To use the Printer Status Monitor to monitor the status of the machine, the printing environment must be configured as explained below.

Printing via a server

Install the software as explained in "USING THE MACHINE AS A NETWORK PRINTER" ([p.14](#)).

When the first print job is executed after starting up the Printer Status Monitor, the machine's IP address is automatically set in the Printer Status Monitor.

Direct printing without a server

Install and configure the software as explained in "INSTALLING THE SOFTWARE" ([p.11](#)). (This is not necessary if the software has already been installed and configured.)

USING THE PRINTER STATUS MONITOR

For information on using the Printer Status Monitor, see the Help file. The Help file can be viewed as follows: Click the "Start" button, point to "All Programs" ("Programs" in Windows 2000) and then "SHARP Printer Status Monitor". Select "Help".

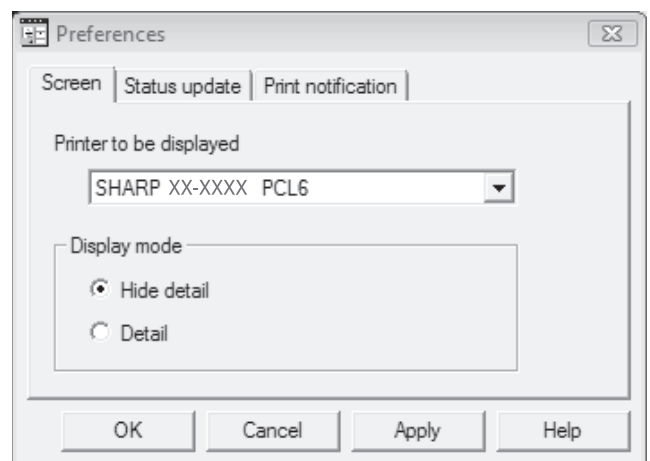
CHANGING THE PRINTER STATUS MONITOR SETTINGS

Once installed, the Printer Status Monitor normally runs in the background in Windows. If you need to change the Printer Status Monitor settings, follow the steps below.

1 Right-click the Printer Status Monitor icon () on the task bar, and select "Preferences" from the pop-up menu.

2 Change the Printer Status Monitor settings as desired.

For information on the Printer Status Monitor settings, see Printer Status Monitor Help. (Click the "Help" button in the settings window.)



CHECKING THE PRINTER STATUS

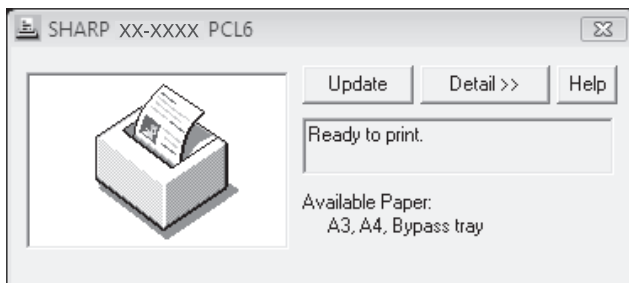
The Printer Status Monitor allows you to check whether or not toner and paper remain in the machine.

- 1 Right-click the Printer Status Monitor icon () on the task bar, and select "Show the Status" from the pop-up menu.**

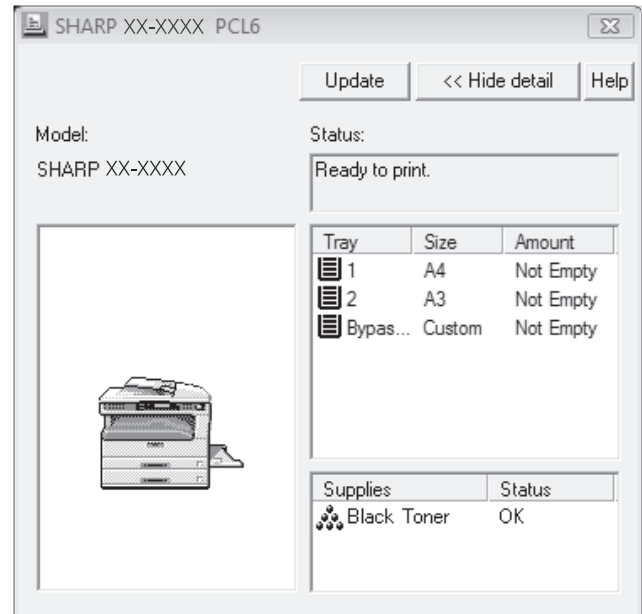


The icon turns red when printing is not possible due to a machine error or other problem.

- 2 Check the current status of the printer in the screen that appears. If you wish to know more detailed status information, click the "Detail" button.**



The screen will change to the detailed status screen.



To return to the abbreviated status screen, click the "Hide detail" button.



By default, the abbreviated status screen appears when "Show the Status" is selected in Step 1. If desired, you can change the setting to have the detailed status screen initially appear.

➡ "CHANGING THE PRINTER STATUS MONITOR SETTINGS" (p.38)

5

PRINTING FROM A MACINTOSH

This chapter explains the procedures for setting up and printing in a Macintosh environment.

SETUP IN A MACINTOSH ENVIRONMENT

This chapter explains how to install the PPD file to enable printing from a Macintosh and how to configure the printer driver settings.

- The PS3 expansion kit is required to use the machine as a printer in a Macintosh environment. In addition, the machine must be connected to a network.
- The scanner driver and PC-Fax driver cannot be used in a Macintosh environment.



The explanations of screens and procedures are primarily for Mac OS X v10.4. The screens may vary in other versions of the operating system.

1 Insert the "Software CD-ROM" into your computer's CD-ROM drive.

Insert the "Software CD-ROM" that shows "Disc 2" on the front of the CD-ROM.

2 Double-click the [CD-ROM] icon (📀) on the desktop.

3 Double-click the [MacOSX] folder.

Before installing the software, be sure to read "ReadMe First". "ReadMe First" is in the [English] folder in the [Readme] folder.

4 Double-click the folder corresponding to the versions of the operating system.

5 Double-click the [MX-B06] icon (📀).



If the "Authenticate" window appears in Mac OS X v10.2.8, enter the password and click the [OK] button.

6 Click the [Continue] button.



7 The Licence Agreement window will appear. Make sure that you understand the contents of the licence agreement and then click the [Continue] button.

A message will appear asking you if you agree to the terms of the licence. Click the [Agree] button.



If the licence appears in the different language, change the language in the language menu.

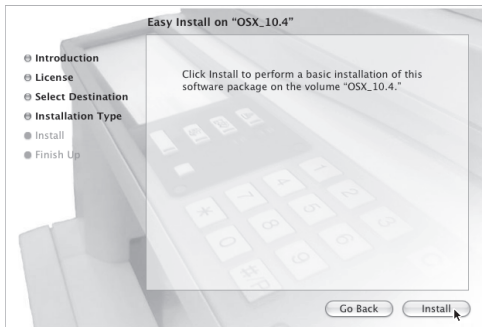
8 Select the hard drive where the PPD file will be installed and click the [Continue] button.

Be sure to select the hard drive on which your operating system is installed.



9 Click the [Install] button.

Installation begins.



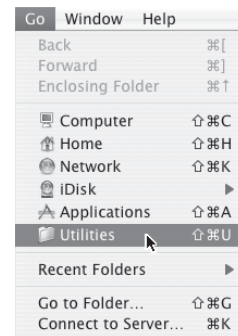
If the "Authenticate" window appears, enter the password and click the [OK] button.

10 When the message "The software was successfully installed" appears in the installation window, click the [Close] button.

This completes the installation of the software. Next, configure the printer driver settings.

11 Select [Utilities] from the [Go] menu.

- If you are using Mac OS X v10.5 to 10.6.4, click [System Preferences] in the Apple menu () and select [Print & Fax] (🖨️). When the screen for adding a printer appears, click the button and go to step 14.
- If you are using Mac OS X v10.2.8, select [Applications] from the [Go] menu.



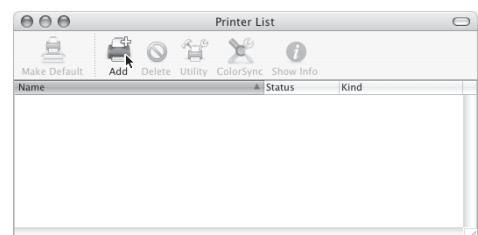
12 Double-click the [Printer Setup Utility] icon (🖨️).

If you are using Mac OS X v10.2.8, double-click the [Utilities] folder and then double-click the [Print Center] icon.



If this is the first time you are installing a printer driver on your computer, a confirmation message will appear. Click the [Add] button.

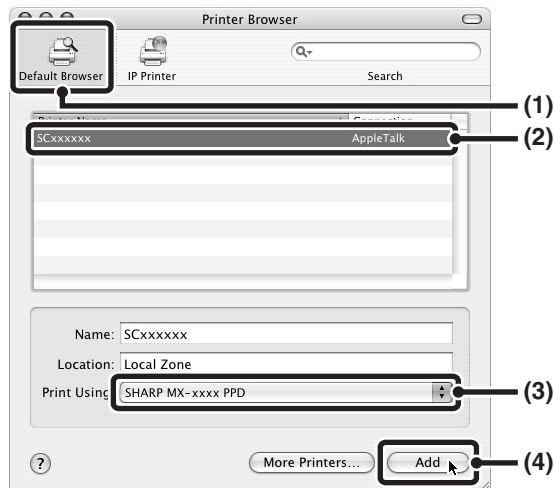
13 Click [Add].



14 Configure the printer driver.

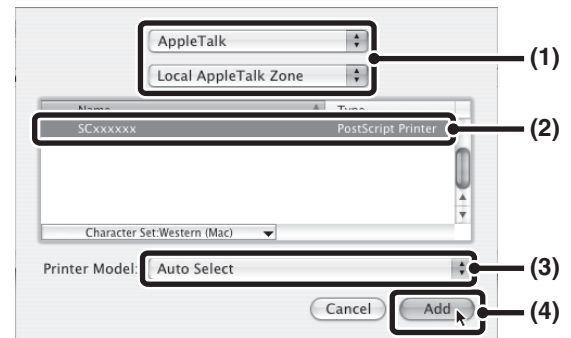
The procedure for configuring the printer driver varies depending on the operating system version. The procedure for versions 10.4.11 and 10.5 - 10.6.4 and the procedure for other versions are explained separately below.

v10.4.11, v10.5 - 10.6.4



- (1) Click the [Default Browser] icon.
If multiple AppleTalk zones are displayed, select the zone that includes the printer from the menu.
If you are using Mac OS X v10.5 to 10.6.4, click the [Default] icon.
- (2) Click the machine's model name.
The machine's model name usually appears as [SCxxxxxx]. ("xxxxxx" is a sequence of characters that varies depending on your model.)
The PPD file of the machine is automatically selected.
- (3) Make sure that the PPD file of your model is selected.
- (4) Click the [Add] button.
The PPD file of the machine is automatically selected and the peripheral devices installed on the machine are detected and automatically configured.

v10.2.8, v10.3.9

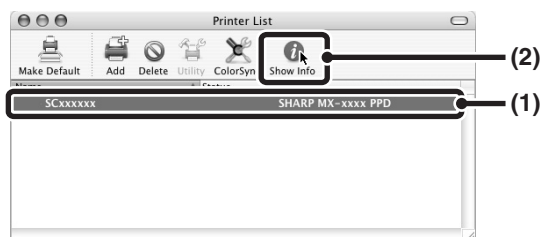


- (1) Select [AppleTalk].
If multiple AppleTalk zones are displayed, select the zone that includes the printer from the menu.
- (2) Click the machine's model name.
The machine's model name usually appears as [SCxxxxxx]. ("xxxxxx" is a sequence of characters that varies depending on your model.)
- (3) Select the PPD file of the machine.
If you are using Mac OS X v10.3.9, select [Auto Select].
If you are using Mac OS X v10.2.8, select [Sharp] and click the PPD file of your model.
- (4) Click the [Add] button.
If you are using Mac OS X v10.3.9, the PPD file of the machine is automatically selected and the peripheral devices installed on the machine are detected and automatically configured.



The PPD file is installed in the following folders on the startup disk.
[Library] - [Printers] - [PPDs] - [Contents] - [Resources] - [en.lproj]

15 Display printer information.



(1) Click the machine's name.

If you are using Mac OS X v10.5 to 10.6.4, click the [Options & Supplies] button, click the [Driver] tab and go to step 16.

(2) Click [Show Info].

If you are using Mac OS X v10.2.8, select [Show Info] from the [Printers] menu.

16 Select the machine configuration.

If you selected [Auto Select] in (3) of step 14, the machine configuration is detected and automatically configured. Check the configured settings to make sure they are correct.

(1) Select [Installable Options].

If you are using Mac OS X v10.5 to 10.6.4, it does not appear.

(2) Select the options that are installed on the machine.

(3) Click the [Apply Changes] button.

If you are using Mac OS X v10.5 to 10.6.4, click the [OK] button.

(4) Click to close the window.

This completes the configuration of the printer driver.

BASIC PRINTING

To use the machine as a printer for the Macintosh, the PS3 expansion kit (MX-PK10) must be installed and the machine must be connected to a network.

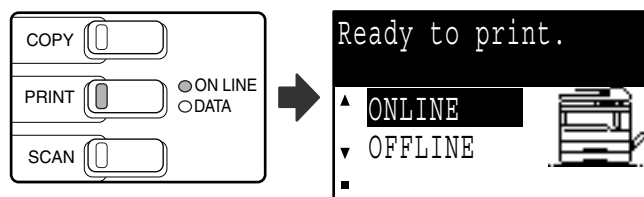
Before printing, make sure that the correct size of paper for your document has been loaded in the machine.



Paper that can be used and the procedures for loading paper are the same as for copying. See the "Operation manual (for general information and copier)".

1 Make sure that the ONLINE indicator on the operation panel is lit.

If the ONLINE indicator is not on, press the [PRINT] key to switch to printer mode and then use the [▲] key to select "ONLINE".



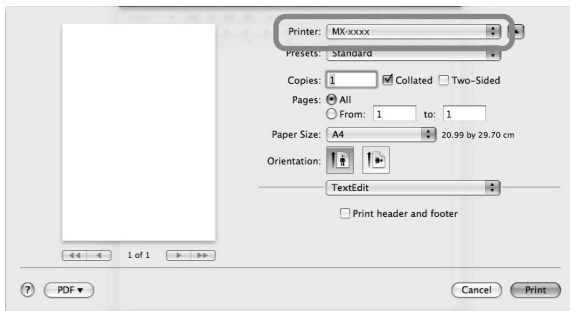
The status of the printer function is indicated by the ONLINE and DATA indicators above the [PRINT] key.

	ONLINE indicator	DATA indicator
Lit	The machine is online. Printing is possible.	There is print data in memory that has not been printed yet.
Blinking	A print job is being cancelled.	Printing is in progress or data is being received.
Off	The machine is offline. Printing is not possible.	There is no print data in memory and print data is not being received.

2 Start the application and open the document that you wish to print.

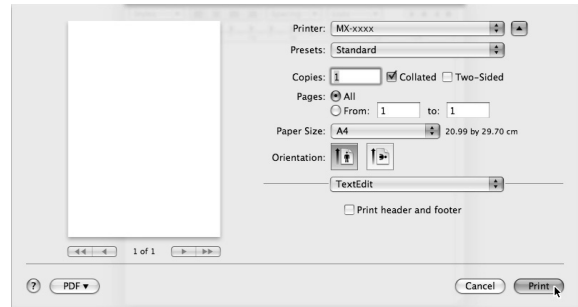
3 Select [Print] from the application's [File] menu.

4 Make sure that the correct printer is selected.



- The machine name that appears in the "Printer" menu is the name that was entered when the settings were configured from the "Network Utilities" CD-ROM. Unless the name was changed when configuring the settings, it will be [MX-xxxx] (where "xxxx" is a sequence of characters that varies depending on your machine).
- The Print window varies depending on the operating system version, the printer driver version, and the application.

6 Click the [Print] button.



Printing begins.




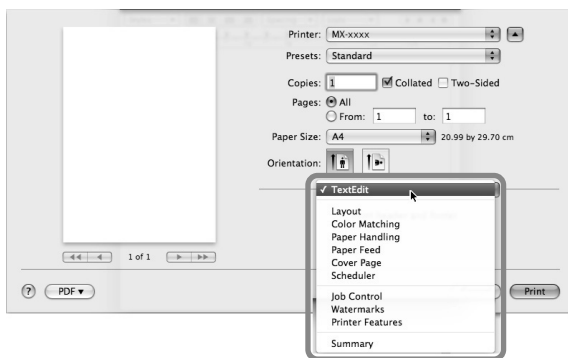
When the job separator tray is installed

The output tray can be selected when selecting print settings at the time of printing. Select the output tray in "Output" in the [Advanced] menu of the Print window.

- If you are using Mac OS X v10.1.5, select the output tray in the [Output] tab in the [Printer Features] menu of the Print Window.

5 Select print settings.

Click  and select the settings that you wish to configure from the pull-down menu. The corresponding setting screen will appear.



The settings vary depending on the operating system version, the printer driver version, and the application.

IF THE TRAY RUNS OUT OF PAPER DURING PRINTING

Add paper to the tray that ran out or to the bypass tray. If you add paper to the bypass tray, press the [PRINT] key on the machine to switch to printer mode and select "BYPASS-TRAY". Printing will resume. Note that if the "AUTO TRAY SWITCHING" setting is selected in the "PAPER SIZE SET" (accessed by pressing the [SPECIAL FUNCTION] key) and there is the same size of paper in another tray, the machine will automatically switch to the other tray and continue printing.

PAUSING A PRINT JOB

To pause a print job, press the [PRINT] key on the machine to switch to printer mode and then select "OFFLINE" with the [▼] key. The machine pauses the print job and then goes offline.

- To cancel a print job, press the [C] key (⌘).
- To resume printing, select "ONLINE" with the [▲] key.

WHEN [PAPER FEED] IS SET TO [AUTO SELECT]

If [Paper Feed] is set to [Auto Select] in the Print window and the correct size of paper is not loaded in the machine, the printing procedure will vary depending on the "FORCED OUTPUT OF PRINT" (p.8) setting in the system settings.

When "FORCED OUTPUT OF PRINT" is disabled

Add paper to the bypass tray, press the [PRINT] key on the machine to switch to printer mode, and select "BYPASS-TRAY". Printing will resume.

When "FORCED OUTPUT OF PRINT" is enabled

The closest size of paper in a tray other than the bypass tray will be used for printing.



The print image is automatically rotated 90 degrees in the event that the paper is loaded in an orientation different from the print image (except when the bypass tray is used).

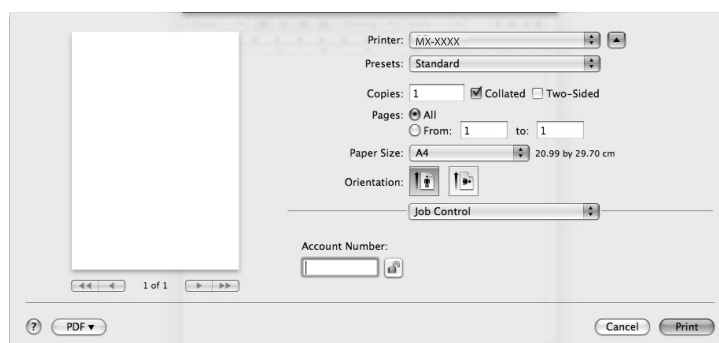
HOW [BYPASS TRAY] AND [BYPASS MANUAL] DIFFER IN THE [PAPER FEED] SETTINGS

There are two bypass tray settings in [Paper Feed] of the Print window:

- When [Bypass Tray] is selected, the print job is automatically printed on the paper in the bypass tray.
- When [Bypass Manual] is selected, the print job is not printed until paper is inserted into the bypass tray. If paper is already in the bypass tray, remove the paper and then re-insert it to begin printing.

JOB CONTROL FUNCTION (MAC OS X V10.2.8 TO 10.6.4)

When "AUDITING MODE" is enabled in the system settings, enter your 5-digit account number in "Account Number" in [Job Control] in the Print window.



Account numbers are registered in the system settings.



When auditing mode is enabled, a print job may not be printed if an account number is not entered or an incorrect account number is entered. This depends on the system settings.

ABOUT THE WEB PAGES

The Network expansion kit includes a built-in Web server. The Web server is accessed using a Web browser on your computer. The Web pages include both pages for users and pages for the administrator. In the user Web pages, users can monitor the machine, directly print a file specified on a computer, and select printer configuration settings. In the administrator Web pages, the administrator can configure the machine's e-mail settings, settings for print by e-mail, and passwords. Only the administrator is allowed to configure these settings.

HOW TO ACCESS THE WEB PAGE AND VIEW HELP

Use the following procedure to access the Web pages. [Help] can be clicked at the bottom of the menu frame to view information on the various function settings that can be configured remotely over the network from the machine's Web pages. For the settings of each function, see the explanations in Help.

1 Open the Web browser on your computer.

Supported browsers:

Internet Explorer: 6.0 or higher (Windows®)

Netscape Navigator: 9 (Windows®)

Firefox: 2.0 or higher (Windows®)

2 In the "Address" field of your Web browser, enter the IP address that has been configured in the machine.

If you do not know the IP address, see "SETTING/CHANGING THE IP ADDRESS MANUALLY" (p.10).


When the connection is completed, the Web page will appear in your Web browser.

☞ "ABOUT THE WEB PAGES (FOR USERS)" (p.47)

3 Click the [Help] button at the bottom of the menu frame.

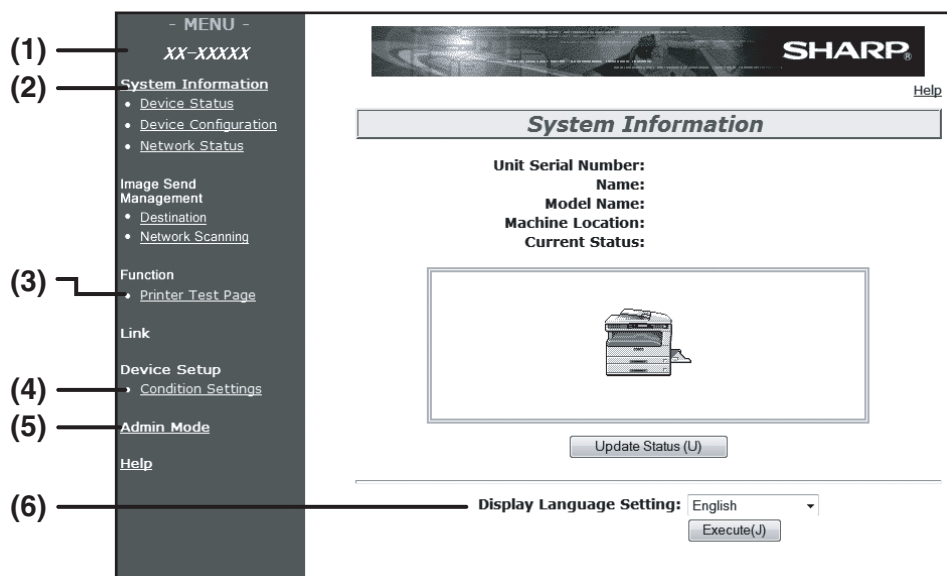
To view information on a function setting, click the corresponding item in the Help screen.

4 When finished, close the Web pages.

When you have finished using the Web pages, click the  (close) button in the top right corner of the page.

ABOUT THE WEB PAGES (FOR USERS)

When you access the user Web pages in the machine, the following page will appear in your browser. A menu frame appears on the left side of the page. When you click an item in the menu, a screen appears in the right frame that allows you to configure settings for that item.



(1) Menu frame

Click a setting in the menu to configure it.

(2) System Information

Shows the current status of the machine and model name.

- Device Status
Shows the current status of the machine, paper trays, output trays, toner and other supplies, and page counts.
Out of paper and other warnings appear in red.
- Device Configuration
Shows what options are installed.
- Network Status
Shows the network status. Information on "General" and "TCP/IP" is shown on the respective pages.

(3) Printer Test Page

The "Printer Settings List", which shows printer condition settings and system settings, and various font lists can be printed.

(4) Condition Settings

Configure basic printer settings and printer language settings.

➤ "CONFIGURING THE PRINTER CONDITION SETTINGS" (p.48)

(5) Admin Mode

To open the Web pages for the administrator, click here and then enter the administrator's user name and password.

➤ "ABOUT THE WEB PAGES (FOR THE ADMINISTRATOR)" (p.57)

➤ "PROTECTING INFORMATION PROGRAMMED IN THE WEB PAGE ([Passwords])" (p.59)

(6) Display Language Setting

Select the desired language setting from the pull-down menu.

CONFIGURING THE PRINTER CONDITION SETTINGS

The printer condition settings allow basic printer settings to be configured. The following items can be set:

- "Default Settings" (p.49): Basic settings that are mainly used when the printer driver is not used.
- "PCL Settings" (p.50): PCL symbol set, font, line feed code, and other settings.

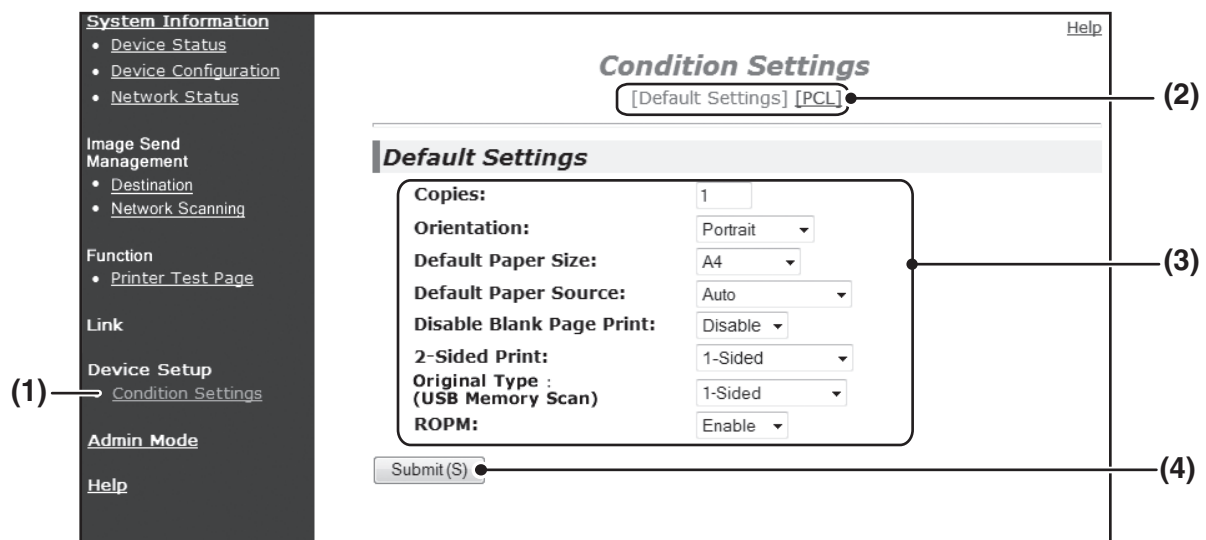


When the printer driver is used and the same settings are configured both in the printer driver and in the above screens, the settings configured in the printer driver override the settings in the above screens. If a setting is available in the printer driver, use the printer driver to configure the setting.

HOW TO CONFIGURE THE SETTINGS

To display the Condition Settings screen, click [Condition Settings] in the menu frame.

For detailed explanations of the procedures for establishing settings, click [Help] in the menu frame.



(1) Condition Settings

This displays the page for configuring the printer condition settings.

(2) Default Settings/ PCL

Select the type of condition settings that you wish to configure.

(3) Settings

The factory default settings are displayed.

Change the settings as desired by selecting from drop-down lists and by directly entering settings.

For information on the settings, see "PRINTER CONDITION SETTINGS" (p.49).

(4) Submit

Click to store the Web page settings in the machine.

PRINTER CONDITION SETTING MENU

Condition Settings	
Default Settings	Factory default settings
Copies	1
Orientation	Portrait
Default Paper Size	A4
Default Paper Source	Auto
Disable Blank Page Print	Disable
2-Sided Print	1-Sided
Original Type (USB Memory Scan)	1-Sided
ROPM (Rip Once, Print Many)	Enable

Condition Settings	
PCL Settings	Factory default settings
Symbol Set	PC-8
Font	0: Courier (internal font)
Line Feed Code	CR=CR; LF=LF; FF=FF
Wide A4	Disable

PRINTER CONDITION SETTINGS

Factory default settings are indicated in bold.

Default Settings

Item	Selections	Description
Copies	1 - 999	This is used to select the number of copies.
Orientation	Portrait , Landscape	This sets the orientation of the printed page. Select [Portrait] when the image is longer in the vertical direction, or [Landscape] when the image is longer in the horizontal direction.
Default Paper Size	A3, B4, A4 , B5, A5, Ledger, Legal, Foolscap, Letter, Invoice	This sets the default paper size used for printing. Even if the set size of paper is not in any of the trays, the printed image is formed in accordance with this setting.
Default Paper Source	Auto , Tray 1, Tray 2*, Tray 3*, Tray 4*, Bypass (Manual), Bypass (Auto)	This sets the default paper tray. *Selections available depend on the trays that are installed.
Disable Blank Page Print	Enable, Disable	When this is specified, blank pages with no print data will not be printed.
2-Sided Print	1-Sided , 2-Sided (Book), 2-Sided (Tablet)	When [2-Sided (Book)] is selected, two-sided printing takes place so as to allow binding at the left side. When [2-Sided (Tablet)] is selected, two-sided printing takes place so as to allow binding at the top. (Only for models that support two-sided printing.)
Original Type (USB Memory Scan)	1-Sided , 2-Sided	This sets whether or not to allow two-sided original for USB Memory Scan. (Only for models that support two-sided original.)
ROPM (Rip Once, Print Many)	Enable , Disable	This enables the ROPM function. When enabled, multi-page print jobs are stored in memory before printing, and thus the computer does not need to repeatedly send the print data when multiple copies are printed.

PCL Settings

Item	Selections	Description
Symbol Set	Select one of 35 sets.	This specifies which country's characters (PCL symbol set) are assigned to certain of the symbols in the character code list. The factory default setting is [PC-8].
Font	Select one internal or one external font.	This specifies which PCL font to use for printing. One font can be specified from among the internal fonts. The factory default setting is [0: Courier].
Line Feed Code	CR=CR; LF=LF; FF=FF, CR=CR+LF; LF=LF; FF=FF, CR=CR; LF=CR+LF; FF=CR+FF, CR=CR+LF; LF=CR+LF; FF=CR+FF	This specifies the line break code by means of a combination of the "CR" (return) code, "LF" (line break) code, and "FF" (page break) code. The factory default setting is printing based on the transmitted code. The setting can be changed by selecting one of four combinations.
Wide A4	Enable, Disable	This setting can be enabled to print 80 lines on A4 size paper with each line 10CPI font (English characters). When the setting is disabled (a checkmark does not appear), each line is 78 characters long.

PostScript settings

"PostScript Settings" only appears when the PS3 expansion kit is installed.

Item	Settings	Description
Print PS Errors	Enable, Disable	When this setting is enabled, an error description is printed each time a PostScript error occurs.

CONFIGURING THE SCANNER CONDITION SETTINGS

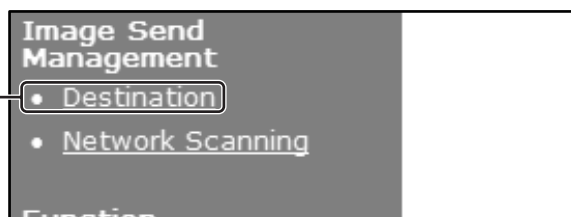
STORING DESTINATIONS

To store scanning destinations, click [Destination] in the Web page menu frame. This screen can also be used to edit or delete stored destinations. (p.56)

A total of 200 destinations* can be stored, including E-mail, FTP, Desktop, and Group destinations.*

* Multiple e-mail addresses can be stored as a group (up to 100). Note that this may reduce the maximum number of destinations (normally 200) that can be stored.

Click here to store destinations.



E-mail: See below
FTP: See (p.52).
Desktop: See (p.53).
Group (E-mail): See (p.55).

Storing destinations for Scan to E-mail

- 1 Click [Destination] in the menu frame of the Web page.



- 2 Click [E-mail].



- 3 Enter the destination information.

For each setting, see the following table.

- 4 When you have finished entering the information, click [Submit].

The entries will be stored.



To perform Scan to E-mail, the SMTP server settings must first be established. (p.58)

E-mail destination information

Item	Description
Name (Required)	Enter the name of the destination (up to 36 characters).
Initial (Optional)	Enter initial text for the destination (maximum of 10 characters). When the destination list is displayed in the destination control screen, the initial text is used to group the destinations.
Custom Index	Names can be assigned to the custom indexes as desired (p.47), allowing convenient grouping of destinations. Drop down list: Select a custom index for the destination to be stored. User checkbox: When this is selected, the destination is stored in the user tab of the address book. (p.72)
E-mail Address (Required)	Enter the e-mail address of the destination (up to 64 characters). If an LDAP server is being used, you can click the [Global Address Search] button to search for an address on the LDAP server.

Storing destinations for Scan to FTP

- 1 Click [Destination] in the menu frame of the Web page.



- 2 Click [FTP].



- 3 Enter the destination information.

For the settings, see the following table.

- 4 When you have completed all the entries, click [Submit].

The entries will be stored.



Note If you select the "Enable Hyperlink to FTP server to be e-mailed" checkbox and select a previously stored recipient (p.51) from "E-mail Destination", an e-mail will be sent to the recipient informing them of the file format and location of the scanned image data (Scan to FTP (Hyperlink)). A hyperlink to the file server to which the scanned image data was sent appears in the e-mail, and the recipient can click the hyperlink to go directly to the location where the image data is stored.

FTP destination information

Item	Description
Name (Required)	Enter the name of the destination (up to 36 characters).
Initial (Optional)	Enter initial text for the destination (maximum of 10 characters). When the destination list is displayed in the destination control screen, the initial text is used to group the destinations.
Custom Index	Names can be assigned to the custom indexes as desired (p.47), allowing convenient grouping of destinations. Drop down list: Select a custom index for the destination to be stored. User checkbox: When this is selected, the destination is stored in the user tab of the address book. (p.72)
Hostname or IP Address (required)* ¹	Enter the IP address or host name of the FTP server (maximum of 127 characters).
User Name (Optional)	Enter the login user name for the FTP server (maximum of 32 characters).
Password (Optional)	Enter the login password for the FTP server (maximum of 32 characters).
Directory (Optional)	If you wish to specify a destination directory on the FTP server, enter the directory (maximum of 200 characters).
Enable Hyperlink to FTP server to be e-mailed (Checkbox)* ²	When you send a scanned file to an FTP server, you can have a transmission notification automatically sent to the file recipient by e-mail. To have transmission notifications sent, select the checkbox. The FTP server name will appear in the transmission notification as a hyperlink.
E-mail Destination	Select the recipient that you wish to notify of the file transmission to the FTP server. To select a recipient here, the recipient's e-mail address must have been previously stored. (p.51)

*1If you entered a host name in "Hostname or IP Address", you will need to enter the DNS server settings. (p.58)

*2To perform Scan to FTP (Hyperlink), you must also enter the settings for the e-mail server.

Storing destinations for Scan to Desktop

The destination for Scan to Desktop is stored by the Sharp Network Scanner Tool Setup Wizard when "Network Scanner Tool" is installed in your computer. For this reason, there is no need to store the Scan to Desktop destination in the Web page. (The Network Scanner Tool is on the "Sharpdesk" CD-ROM that accompanies the Network Expansion Kit.)

For information on Scan to Desktop system requirements, installing the Network Scanner Tool, and storing the destination, see the "Sharpdesk installation guide" that accompanies the network expansion kit.

Normally your computer is stored as the destination by the method indicated above.

The following page for storing Scan to Desktop destination information appears when [Destination] is selected in the menu frame, followed by [Desktop]. This page is used mainly by the system administrator in the following circumstance.

- When another machine that also has the network expansion kit is added to your network and you wish to send an image scanned on the new machine to a destination stored on the existing machine

See "Editing and deleting programmed transmission destinations" (p.56) to select the Scan to Desktop destination information that you wish to use on the new machine and enter the displayed information in this screen in the new machine. (When you have completed all entries, click [Submit].)

If there are several destinations that you wish to use on the new machine, repeat this procedure as needed.

The screenshot shows a web browser window with the Sharp logo at the top. Below the logo is a navigation bar with links: [E-mail], [FTP], [Desktop], [Group(E-mail)], [Fax], [Speed Dial], and [Group(Fax)]. The main heading is "Destination Management". Below this is a sub-heading "Desktop Destination Control". The form contains several input fields: "Name (Required)", "Initial (Optional)", "Custom Index" (with a dropdown menu showing "USER 1" and a checkbox for "User"), "Hostname or IP Address (Required)", "Port Number (Required)" (with the value "21" entered), "Process Directory (Optional)", "User Name (Optional)", and "Password (Optional)". At the bottom of the form is a "Submit(S)" button.

If the information entered here differs from the information entered on the host computer, transmission/reception will not be possible.

For the settings, see the following table.

Scan to Desktop destination information

Item	Description
Name (Required)	Enter the name of the destination (up to 36 characters).
Initial (Optional)	Enter initial text for the destination (maximum of 10 characters). When the destination list is displayed in the destination control screen, the initial text is used to group the destinations.
Custom Index	Names can be assigned to the custom indexes as desired (p.47), allowing convenient grouping of destinations. Drop down list: Select a custom index for the destination to be stored. User checkbox: When this is selected, the destination is stored in the user tab of the address book. (p.72)
Hostname or IP Address (Required)*	Enter the IP address or host name of the FTP server (maximum of 127 characters).
Port Number (Required)	Enter a port number from 0 to 65535 for the desktop network scanner tool.
Process Directory (Optional)	Enter the destination directory name for the file (maximum of 200 characters). The file will be processed in this directory after it is received.
User Name (Optional)	Enter the login user name for the network scanner tool (maximum of 32 characters).
Password (Optional)	Enter the login password for the network scanner tool (maximum of 32 characters).

* If you entered a host name in "Hostname or IP Address", you will need to enter the DNS server settings. ([p.58](#))

Storing Groups (Scan to E-mail)

You can send a scanned image to multiple e-mail destinations in a single Scan to E-mail operation. If you frequently transmit to a fixed group of destinations, you can store the destinations as a group.



Up to 100 destinations can be stored in one group.

1 Click [Destination] in the menu frame of the Web page.



2 Click [Group(E-mail)].



3 Enter the destination information.

For the settings, see the following table.

4 When you have completed all of the entries, click [Submit].

The entries will be stored.

Storing a group of destinations

Item	Description
Name (Required)	Enter a name for the group (up to 36 characters).
Initial (Optional)	Enter initial text for the destinations (maximum of 10 characters). When the destination list is displayed in the destination control screen, the initial text is used to group the destinations.
Custom Index	Names can be assigned to the custom indexes as desired (p.47), allowing convenient grouping of destinations. Drop down list: Select a custom index for the destination to be stored. User checkbox: When this is selected, the destination is stored in the user tab of the address book. (p.72)
Address(es) (Required)	Select the address of each destination from the "E-mail" list box. Programmed e-mail destinations appear in each of the destination lists. To select multiple destinations, click each address while holding down the [Ctrl] key on the keyboard. If you need to cancel an address that has been selected, click the address again while holding down the [Ctrl] key. If an LDAP server is being used, you can click the [Global Address Search] button to search for an address on the LDAP server. Multiple e-mail addresses can be entered. Separate the e-mail addresses with a comma (,), semi-colon (;), space (), or colon (:).

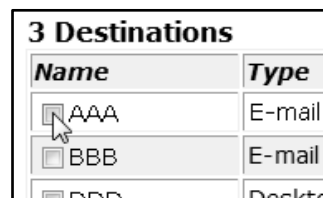
Editing and deleting programmed transmission destinations

To edit or delete programmed destinations, click [Destination] in the menu frame of the Web page.

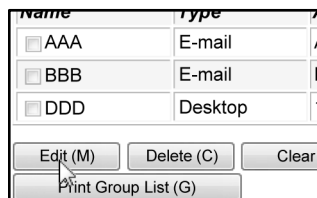
- 1 Click [Destination] in the menu frame of the Web page.



- 2 In the Destinations List, click the checkbox of the destination that you want to edit or delete.



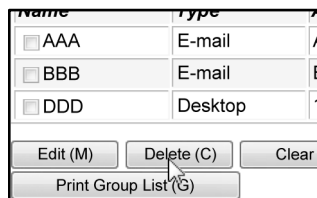
- 3 To edit the selected destination, click [Edit] at the bottom of the Destinations List.



The programming screen of the destination selected in step 2 appears. Edit the information in the same way as you initially stored it.

When finished, be sure to click [Submit] to save your changes.

To delete the selected destination, click [Delete] at the bottom of the Destinations List.



A message appears asking you to confirm the deletion. Click [Yes] to delete.



If you attempt to delete a programmed destination in the following situations, a warning message will appear and deletion will not be possible.

- The destination is included in a group.

If the destination is being used for a current transmission, cancel the transmission or wait until it is completed and then delete the destination. If the destination is included in a group, delete the destination from the group and then delete the destination.

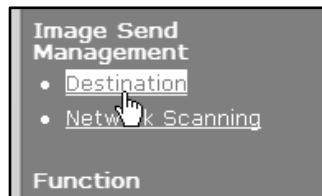
Printing lists of programmed destinations

You can print lists showing the destinations that have been programmed.

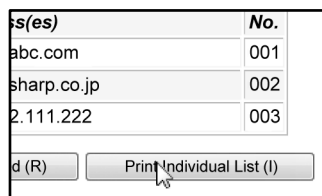
The following lists can be printed.

- Print individual list: Shows the information programmed in e-mail, FTP, desktop, and group destinations.
- Print group list: Shows only the information programmed in group (e-mail) destinations.

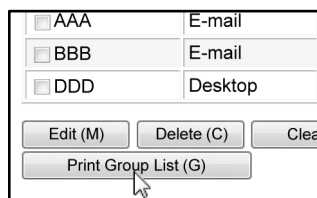
- 1 Click [Destination] in the menu frame of the Web page.



- 2 To print the individual list, click [Print Individual List] at the bottom of the destinations list.



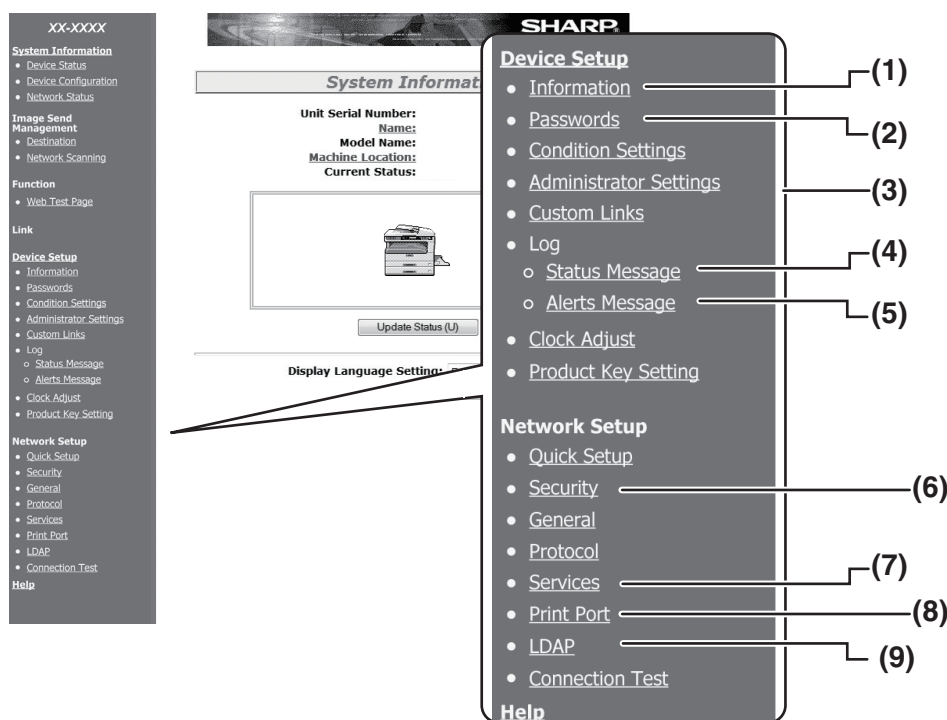
- 3 To print the group list, click [Print Group List] at the bottom of the destinations list.



ABOUT THE WEB PAGES (FOR THE ADMINISTRATOR)

In addition to the menus that appear for users, other menus that can only be used by the administrator appear in the administrator Web pages.

A menu frame appears on the left side of the page. When you click an item in the menu, a screen appears in the right frame that allows you to configure settings for that item. Settings that can only be configured by the administrator are explained here.



(1) Information

Configure machine identification information for the status & alert E-mail function.

☞ "INFORMATION SETUP" (p.62)

(2) Passwords

To protect the Web site, the system administrator can establish passwords. Enter a password that you would like to establish and click the [Submit] button.

One password can be established for the administrator and one password can be established for users.

☞ "PROTECTING INFORMATION PROGRAMMED IN THE WEB PAGE ([Passwords])" (p.59)

(3) Administrator Settings

Setting changes can be prohibited and interface settings can be configured.

☞ "ADMINISTRATOR SETTINGS" (p.60)

(4) Status Message

Configure parameters required for sending status messages, such as destination addresses and time schedules.

☞ "STATUS MESSAGE SETUP" (p.63)

(5) Alerts Message

Store destination addresses for alert messages.

☞ "ALERTS MESSAGE SETUP" (p.63)

(6) Security

Unused ports can be disabled for greater security and port numbers can be changed.

(7) Services

Configure information concerning the e-mail system.

☞ "SMTP SETUP" (p.62)

(8) Print Port

Configure settings for LPD and Raw print.

(9) LDAP

Configure settings for LDAP.

CONFIGURING SMTP, DNS AND LDAP SERVER SETTINGS

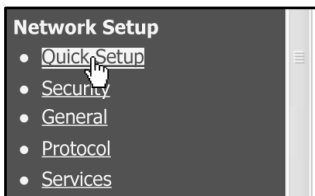
The procedures for using [Quick Setup] are explained here. [Quick Setup] is used to quickly configure only the required settings for "SMTP", "DNS", and "LDAP" servers. These settings are normally configured first.

SMTP server: SMTP is used to transmit e-mail that is sent using Scan to E-mail or Scan to FTP (Hyperlink). To use these transmission methods, your SMTP server settings must be configured.

DNS server: If you entered a host name in "Primary SMTP Server" or "Secondary SMTP Server" of "SMTP", you must also configure your DNS server settings.
You will also need to configure your DNS server settings if host names will be entered in "Hostname or IP Address" when storing destinations for Scan to FTP (Scan to FTP (Hyperlink)) or Scan to Desktop.

LDAP server: If mail addresses are managed on your network by an LDAP server, the e-mail addresses stored in the LDAP server can be used for Scan to E-mail.
To allow the machine to use the e-mail addresses in the LDAP server, the LDAP server settings must be configured in the Web page.

1 Click [Quick Setup] in the menu frame.



3 When you have completed all of the entries, click [Submit].

The entries will be stored.

2 Enter the required information in "SMTP", "DNS" and "LDAP".

For explanations of each setting, click [Help] in the upper right-hand corner of the window.



If you need to configure advanced settings for the SMTP, DNS, and LDAP servers, follow the procedures below.

- Configuring SMTP and DNS server settings
Click [Services] in the menu frame to display the services setup screen. Select the desired server and then configure the required parameters for that server.
- Configuring LDAP server settings
Click [LDAP] in the menu frame to display the LDAP setup screen. Configure the required parameters.

PROTECTING INFORMATION PROGRAMMED IN THE WEB PAGE ([Passwords])

Passwords can be set (click [Passwords] in the menu frame) to restrict Web page access and protect settings. The administrator must change the password from the factory default setting. The administrator must also take care to remember the new password. The next time the Web pages are accessed, the new password must be entered. A password can be set for the administrator and a password can be set for users.

1 Click [Passwords] in the menu frame.

2 Enter the current password in "Admin Password".

When establishing a password for the first time, enter "Sharp" in "Admin Password".



Be sure to enter "S" in upper case and "harp" in lower case (passwords are case sensitive).

3 Enter passwords in "User Password" and "Admin Password".

- A maximum of 7 characters and/or numbers can be entered for each password (passwords are case sensitive).
- Be sure to enter the same password in "Confirm Password" as you did in "New Password".

4 When you have finished entering all items, click [Submit].

The entered password is stored.

After setting the password, turn the machine power off and then back on.



When prompted to enter a user name, a user should enter "user" and an administrator should enter "admin" in "User Name". In "Password", the respective password for the entered user name should be entered.

For more information, click [Help] in the upper right-hand corner of the window.

ADMINISTRATOR SETTINGS

The administrator settings are used to prohibit changes to the [Condition Settings] and to configure interface settings.

- "Default settings" ([p.61](#)): Select the setting for which you wish to prohibit changes.
- "Interface settings" ([p.61](#)): Enable monitoring of data sent to the network port and set restrictions.

CONFIGURING A SETTING IN THE ADMINISTRATOR SETTINGS

1 Click [Administrator Settings] in the menu frame.

The "Default Settings" screen of the [Administrator Settings] will appear. If you wish to select a setting in the "Default Settings" screen, go to step [3](#).

2 Click the desired setting.

3 Make a selection for the setting in the screen that appears.

See "ADMINISTRATOR SETTINGS" ([p.61](#)) for descriptions of the settings.

4 Click [Submit] to store the entered information.

ADMINISTRATOR SETTINGS

When "YES, NO" appears in the "Settings" column, "YES" is selected when a checkmark appears in the checkbox of the item, and "NO" is selected when checkmark does not appear.

Default settings

Item	Settings	Description
Prohibit Test Page Printing	YES, NO	This setting is used to prohibit printing of a printer test page.
Disable Default Setting Changes	YES, NO	This setting is used to prohibit changes to the default condition settings.
Disabling of Clock Adjustment	YES, NO	This setting is used to prohibit changes to the date and time settings. This item does not appear when the fax option is installed.

Interface settings

Item	Settings	Description
I/O Timeout	1- 60 - 999 (sec)	During reception of a print job, if remaining data is not received after the time set here elapses, the port connection is broken and the next print job is begun.
Port Switching Method	Switch at End of Job , Switch after I/O Timeout	Select the method for switching network ports.
Emulation Switching	Auto* , PostScript*, PCL	Select the printer language. When [Auto] is selected, the language is automatically selected from the data sent to the printer. Unless errors occur frequently, do not change the setting from [Auto] to another setting. *Only when the PS3 expansion kit is installed.

E-MAIL STATUS AND E-MAIL ALERT SETTINGS

These functions send information on machine use (print count, copy count, etc.) and error conditions (paper misfeed, out of paper, out of toner, etc.) via e-mail to the administrator of the machine or the dealer.

INFORMATION SETUP

Machine identification information for the status and alert e-mail functions is configured in the "Information Setup" screen. The entered information will be included in status and alert e-mail messages.

1 Click [Information] in the menu frame.

The "Information Setup" screen will appear.

2 Enter the machine information.

For detailed information, click the [Help] button in the upper right-hand corner of the window.

3 Click [Submit] to store the entered information.

SMTP SETUP

The Status and alert e-mail functions use SMTP (Simple Mail Transport Protocol) to send e-mail. The following procedure is used to set up the e-mail environment. This must be done by the system administrator or other person familiar with the network.

1 Click [Services] in the menu frame.

The "Services Setup" screen will appear.

2 Click [SMTP].

3 Enter the information required to set up the e-mail environment.

For detailed information, click the [Help] button in the upper right-hand corner of the window.

4 Click [Submit] to store the entered information.

STATUS MESSAGE SETUP

Use the status message function to send the current counter information, including the copy count, print count, and total output count, based on the specified schedule. The destinations can be set for administrators and dealers respectively.

To set up the status message, follow these steps.

1 Click [Status Message] in the menu frame.

The "Status Message Setup" screen will appear.

2 Enter the required information, including the destination addresses and time schedule.

For detailed information, click the [Help] button in the upper right-hand corner of the window.

3 Click [Submit] to store the entered information.

When the E-mail Status settings are completed, printer count information will be sent periodically by e-mail to the specified e-mail addresses.



If you quit the browser before clicking [Submit], the settings will be cancelled. To send printer information immediately to the specified e-mail addresses, click [Send Now].

ALERTS MESSAGE SETUP

Use the alert message function to send alert information, such as empty toner and paper and trouble including paper misfeeds, to specified destinations when such problems occur. The destinations can be set for administrators and dealers respectively.

To set up the alert message, follow the procedure below.

1 Click [Alerts Message] in the menu frame.

The "Alerts Message Setup" screen will appear.

2 Enter the destination addresses.

For detailed information, click the [Help] button in the upper right-hand corner of the window.

3 Click [Submit] to store the entered information.

If these parameters are set, event information for the printer will be transmitted to the specified addresses via E-mail each time a specified event occurs. The meaning of each event item is shown below.

(Example)

Paper Jam: A paper misfeed has occurred.
 Toner Low: Toner is low.
 Toner Empty: Toner must be added.
 Paper Empty: Paper must be loaded.

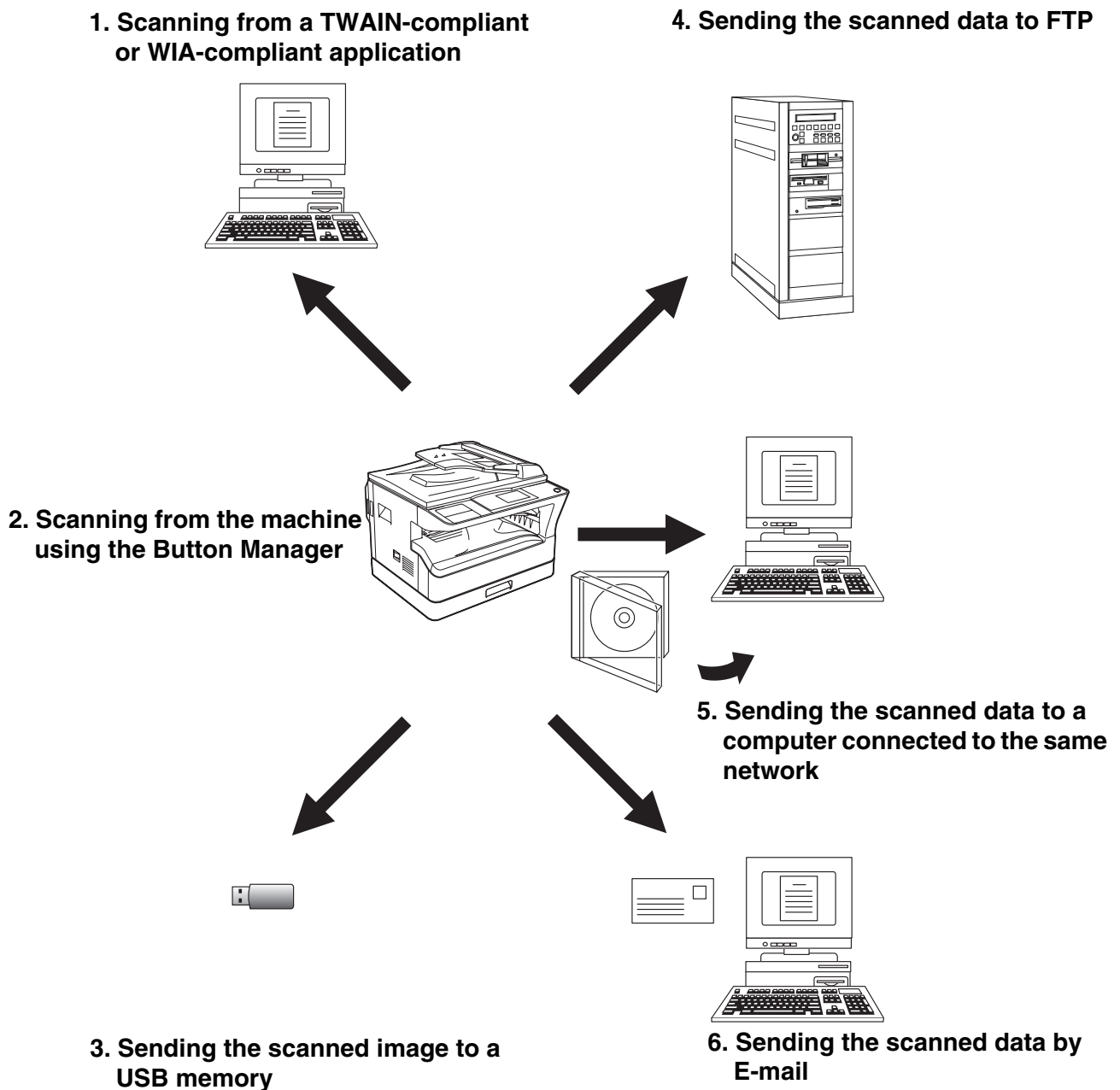


If you quit the browser before clicking [Submit], the settings will be cancelled.

ABOUT THE SCANNER FUNCTIONS

With this machine a document or photo can be scanned into an image file.

Installing the network expansion kit on the machine enables you to scan documents, photos, or other originals to create a data file. You can then send the data file to the file server or your computer using the inter-corporate network (Intranet) or the Internet. To send originals using the scanner function, specify the stored destination (delivery address information name) from the operation panel (display) of the machine.



1. Scanning from a TWAIN-compliant or WIA-compliant application

The scanner driver installed into your PC allows you to use the scanning function of the machine with TWAIN-compliant or WIA-compliant applications.

When you use the machine with the Network expansion kit, "SHARP MFP TWAIN AB" can be installed to your computer.

For more information on scanning from a TWAIN-compliant or WIA-compliant application, see the Operation Guide for the machine.

2. Scanning from the machine using the Button Manager

Button Manager is a software utility that allows you to use the scanner function at the machine.

When you use the machine with the Network expansion kit, "Sharp Button Manager AB" can be installed to your computer. Once installed, Button Manager normally runs in the background in the Windows operating system. Button Manager allows you to configure five sets of scanning settings as a scan menu on the machine.

For more information on Button Manager and changing the settings, see the Operation Guide for the machine.

Button Manager scan menu

Display/Button Manager menu	Application that starts
SC1:	Sharpdesk
SC2:	Email
SC3:	OCR
SC4:	Microsoft Word
SC5:	Filing

3. Sending the scanned image to a USB memory

The scanned image can be sent to a USB memory installed on the machine. This is called "USB Memory Scan" in this manual.

For more information on USB Memory Scan, see "USB MEMORY SCAN" (p.83).

4. Sending the scanned data to FTP

The scanned image can be sent to a memory storage device on a network (a designated directory on an FTP server). (This is called "**Scan to FTP**" in this manual.)

When sending a scanned image to an FTP server, an e-mail message can also be sent to a preset e-mail address to inform the recipient of the location of the scanned image data. (This is called "**Scan to FTP (Hyperlink)**" in this manual.)

5. Sending the scanned data to a computer connected to the same network

A scanned image can be sent to a computer connected to the same network as the machine. (This is called "**Scan to Desktop**" in this manual.)

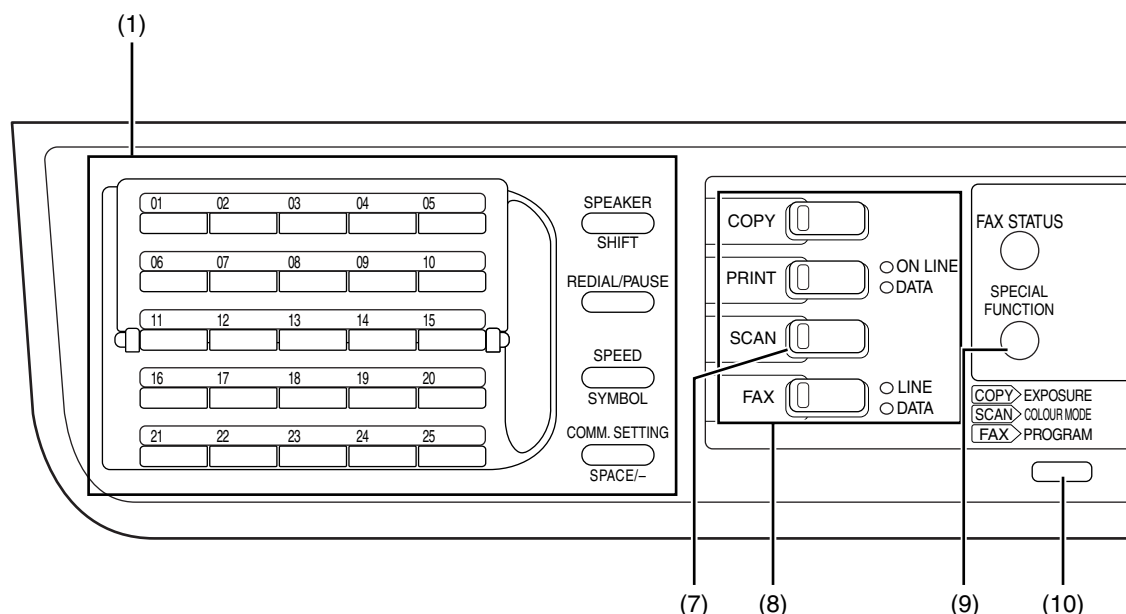
* Before Scan to Desktop can be performed, the software in the CD-ROM that accompanies the network expansion kit (MX-NB12) must be installed. For the procedure for installing the software, see the "Sharpdesk installation guide".

6. Sending the scanned data by E-mail

The scanned image can be sent to an e-mail recipient. (This is called "**Scan to E-mail**" in this manual.)

A LOOK AT THE MACHINE

OPERATION PANEL



(1) Keys for the fax function

(when the fax option is installed)

These keys are used in fax mode. For more information, see the "Operation manual (for facsimile)".

(2) Display (p.68)

This displays the base screen and the function settings screen.

(3) [BACK] key

In a setting or programming screen, this key is used to move back to the previous screen.

(4) [OK] key

This key is used to enter a setting that has been selected with the arrow (▼▲◀▶) or other keys.

(5) Numeric keys

These are used to enter destination addresses, address search characters, and numeric values for various settings.

For more information on entering characters, see "ENTERING CHARACTERS" (p.82).

(6) [C] key

This is used to clear a mistake while entering destination addresses, address search characters, and numeric values for various settings. One digit is cleared each time the key is pressed.

The key is also used to cancel a job.

(7) [SCAN] key

Press to switch to scan mode. The initial screen of scan mode will appear in the display.

(8) [MODE SELECT] keys (step 1 on p.70)

Use these keys to change current operation mode.

(9) [SPECIAL FUNCTION] key

This key is used to select a special transmission function, configure function settings, and access the system settings.

(10)[COLOUR MODE] key (p.77)

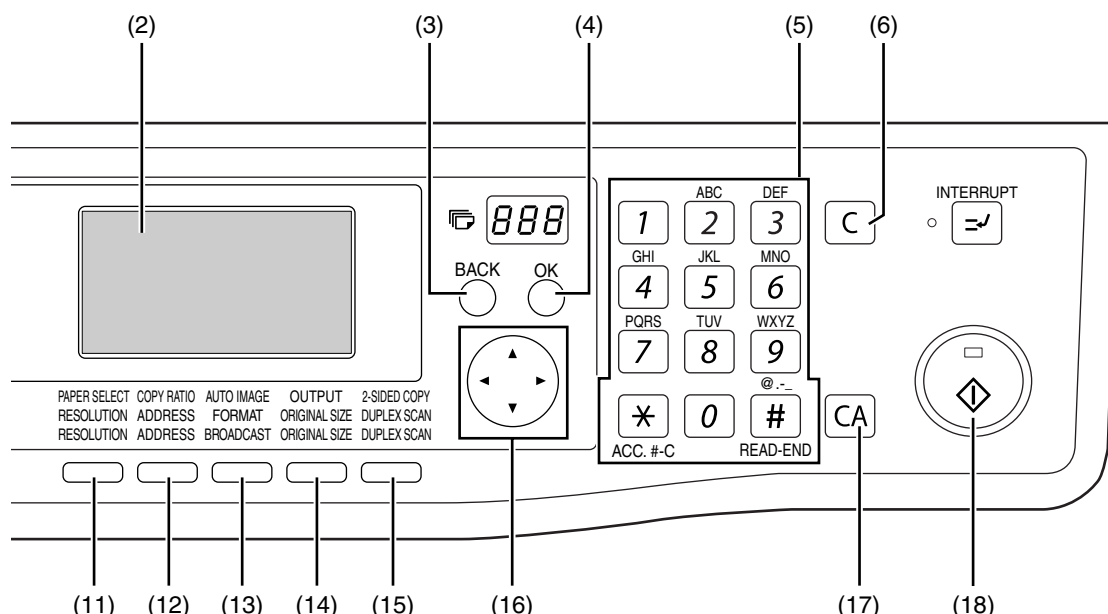
Use this key to select "COLOUR", "GRAY", or "B/W" for the scanning mode.

(11)[RESOLUTION] key (p.77)

Use this key to select the scanning resolution.

(12)[ADDRESS] key (p.72)

Use this key to search for destination addresses such as e-mail address in the address directory.



(13)[FORMAT] key (p.78)

When you send an image to one or more recipients using Scan to E-mail or Scan to FTP, the [FORMAT] key enables you to temporarily override the individual file format settings (file type / compression mode) stored for each recipient and send the image to all of the recipients using a single file format setting.

(14)[ORIGINAL SIZE] key (p.76)

This is used to set the size of the original to be transmitted.

(15)[DUPLEX SCAN] key (p.75)

Press this key to use the duplex scan function. (when the RSPF is installed)

(16)Arrow keys (▼ ▲ ◀ ▶)

These are used to select items and move through pages.

(17)[CA] key

This is used to cancel a transmission or programming operation. When pressed during a programming operation, the operation is cancelled and the display returns to the base screen described on p.68.

This key is also used to cancel a resolution, paper size, or special function setting that was selected at the time of transmission.

(18)[START] key (⬇)

This is used at the following times:

- (1) When starting transmission
- (2) When scanning an original
- (3) When configuring and storing settings



- When the auto power shut-off function is activated, all indicators except the [START] key indicator go off. For information on auto power shut-off, see the "Operation manual (for general information and copier)".
- For information on the keys and indicators which are used for the copy function and other functions, see "OPERATION PANEL" in the manual for each function.

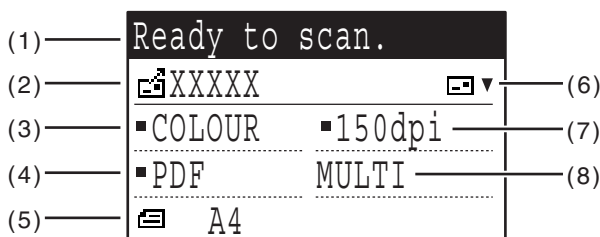
THE BASE SCREEN OF SCANNER MODE

The base screen of scan mode is displayed by pressing the [SCAN] key from the base screen of copy mode, print mode, or fax mode.



If a screen appears asking you what type of connection you are using after you press the [SCAN] key, select "NETWORK" with the [▼] or [▲] key and press the [OK] key.

Base screen of scan mode



(1) Message display

Messages appear here to indicate the current status of the machine.

(2) Destination display

This shows the selected destination.

There are scanner transmission modes:

Scan to E-mail, Scan to FTP, Scan to FTP (Hyperlink), Scan to Desktop, and USB Memory Scan.

This shows the currently selected destination and transmission mode.

(3) Colour mode display

This shows the currently selected colour mode for scanning.

(4) File type display

This shows the image data file type to be created.

(5) Original display (p.76)

This displays an icon to indicate the original scanning mode when an original has been placed.

: One-sided scanning in the SPF.

: Document glass

: Two-sided scanning in the RSPF.

The size of the original is also displayed.

(6) Transmission mode display

When ▼ appears to the right of the icon, the [▼] key can be pressed to show a list of the currently selected destinations.

A destination can also be deleted in this screen.

(7) Resolution display

The shows the scanning resolution.

(8) File creation display

This shows the currently selected file creation method.

AUDITING MODE

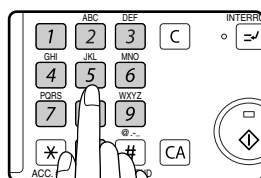
Auditing mode is used to restrict the use of scan mode to valid accounts (up to 50 accounts can be created) and to keep a count of pages transmitted by each account.

Using audit mode

When auditing mode is enabled, the account number entry screen is displayed. Enter your account number (five-digit identification number) as explained below before performing a scanner operation.

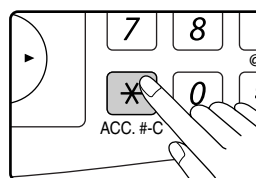
Enter your account number.
ACCOUNT #:-----

1 Enter your account number (five digits) with the numeric keys.



Enter your account number.
ACCOUNT #:***--

2 When you have finished using scan mode, press the [ACC.#-C] key (*).



- As the account number is entered, the hyphens (-) change to asterisks (*). If you enter an incorrect digit, press [C] key and re-enter the correct digit.
- After you enter your account number, the base screen of scan mode (p.68) appears.

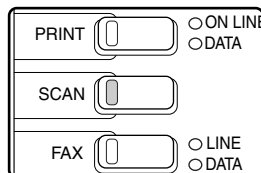


- If you enter an account number for copy mode has also been programmed for scan mode, you can change to scan mode after completing the copy operation and continue with the scan operation without re-entering your account number. If you enter an account number for copy mode that has not been programmed for scan mode, enter your account number for scan mode after you press the [SCAN] key to change to scan mode.
- When "ACC. # SECURITY" is enabled in the system settings (see the "System settings guide"), the message "Please see your administrator for assistance" will appear for one minute if an invalid account number is entered three times in a row. During that time operation of the machine will not be possible.

SENDING AN IMAGE

BASIC TRANSMISSION PROCEDURE

1 Make sure the machine is in scan mode.



When the SCAN indicator is lit, the machine is in scan mode. If the indicator is not lit, press the [SCAN] key. If auditing mode has been enabled for the scan function in the system settings, a message will appear

prompting you to enter your account number when you switch to scan mode. Enter your account number (five digits) with the numeric keys. (p.69)

2 Place the original(s) in the document feeder tray or on the document glass.

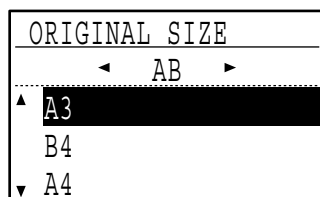
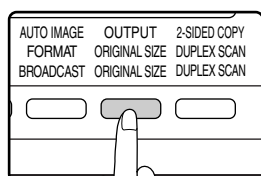
For detailed information on placing an original, see "4. COPY FUNCTIONS" of the "Operation manual (for general information and copier)".

If you are using the document glass to send multiple pages, place the first page first.



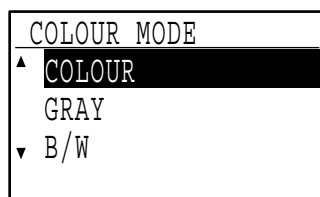
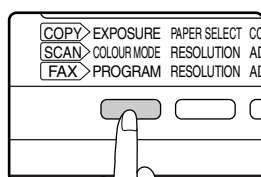
You cannot place originals in both the document feeder tray and on the document glass and send them in a single transmission.

3 Check the original size. If the original is a non-standard size or the size was not detected correctly, press the [ORIGINAL SIZE] key.



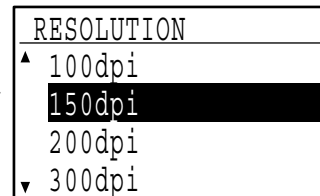
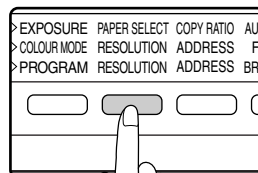
When the [ORIGINAL SIZE] key is pressed, the size selection screen appears. See "MANUALLY SETTING THE SCANNING SIZE" (p.76) to set the original size.

4 If needed, select the colour mode (p.77).



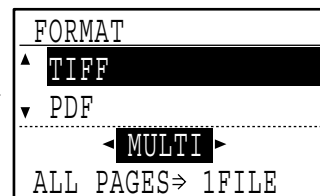
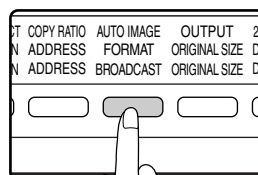
To adjust the colour mode, press the [COLOUR MODE] key. (See "SELECTING THE COLOUR MODE" (p.77).)

5 If needed, select the resolution setting (p.77).



The initial factory setting is [150dpi].

6 If needed, select the format (p.78).

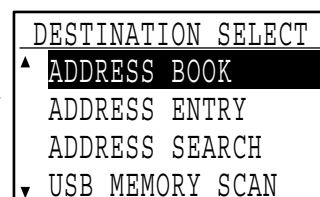
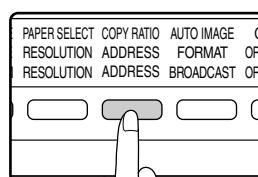


The initial factory setting is [PDF].



- Information on the destination can be stored in the Web page.
- The sender name is normally set to the name stored in "Reply E-mail Address" in "SMTP Setup" in the Web page.

7 Press the [ADDRESS] key.

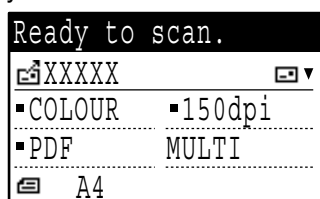


8 Select the destination selection method (p.72).

Select from the following three destination selection methods:

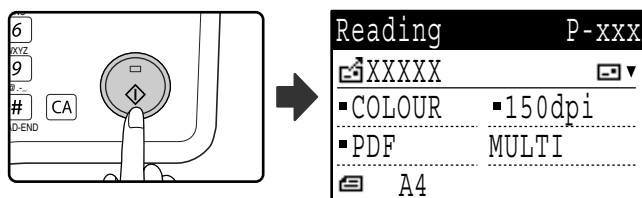
- **"ADDRESS BOOK" (p.72)**
Select one of the stored destinations directly from the operation panel.
- **"ADDRESS ENTRY" (p.73)**
Directly enter the e-mail address. (Only for Scan to E-mail.)
- **"ADDRESS SEARCH" (p.74)**
Access a directory data base on the Internet or your intranet and search for a destination e-mail address. During a global address search, multiple addresses can be entered to perform a broadcast transmission.

When you have finished searching for the destination, you will return to the following base screen.



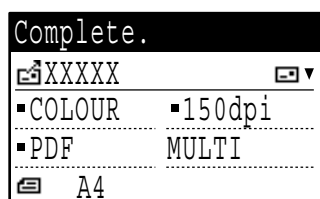
Using the SPF/RSPF

9 Press the [START] key (Ⓢ).



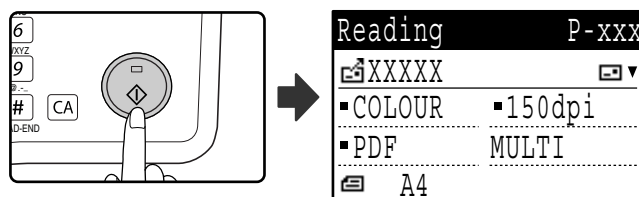
Scanning begins.

If scanning is completed normally, the following screen is appears briefly and then the display returns to the base screen.



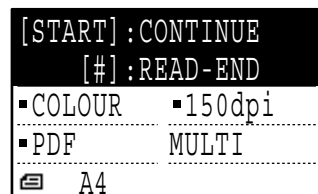
Using the document glass

9 Press the [START] key (Ⓢ).



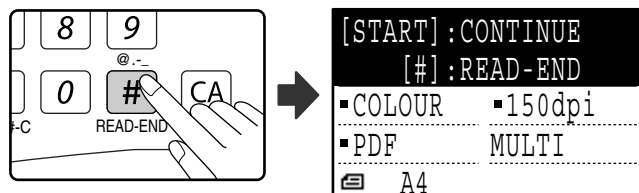
Scanning begins.

10 If you have another page to scan, change pages and then press [START] key (Ⓢ).



- Repeat this sequence until all pages have been scanned.
- You can change the colour mode and resolution setting as needed for each page. (p.77)
- If no action is taken for one minute (the [START] key (Ⓢ) is not pressed), scanning automatically ends and transmission begins.

11 When the final original page has been scanned, press the [READ-END] key (#).



Open the SPF/RSPF and remove the document. When the original is removed or any key operation is performed, the display returns to the base screen.



• Cancelling transmission

- To cancel the transmission while "Reading" appears or before the [#] key is pressed, press the [C] or [CA] key.
- If the power is turned off or a power failure occurs while a document is being scanned in the SPF/RSPF, the machine will stop and a document misfeed will occur. After the power is restored, remove the misfed original as explained in "REMOVING MISFEEDS" in "2. TROUBLESHOOTING AND MAINTENANCE" in the "Operation manual (for general information and copier)".
- When performing a Scan to E-mail transmission, note the following points:
Be careful not to send image data files that are too large. Your mail server's system administrator may have placed a limit on the amount of data that can be sent in one e-mail transmission. If this limit is exceeded, the e-mail will not be delivered to the recipient. Even if there is no limit and your e-mail is successfully delivered, a large data file may take a long time to be received and place a heavy burden on the recipient's network, depending on the recipient's network (Internet) environment. If large image data files are repeatedly sent, the resulting burden on the network may slow down the speed of other, unrelated data transmissions and in some cases, may even cause the mail server or network to go down. In cases where you need to send a large file or multiple images, try lowering the resolution or reducing the scanned original size.

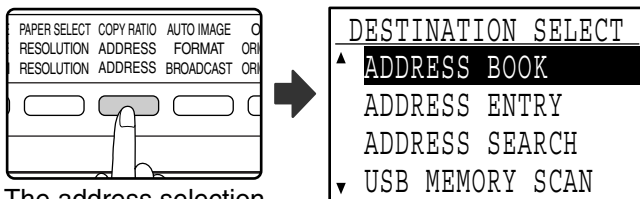
SELECTING A DESTINATION (USING THE [ADDRESS] KEY)

A destination can be selected using one of three methods: Selecting from "ADDRESS BOOK", using "ADDRESS ENTRY", or "ADDRESS SEARCH".

"ADDRESS BOOK"

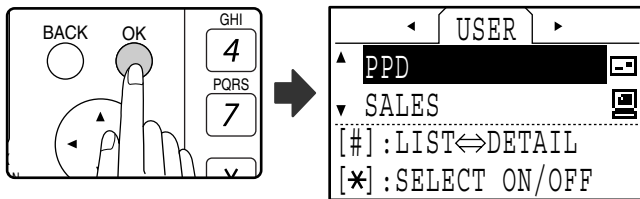
1 Perform steps 1 to 6 of "BASIC TRANSMISSION PROCEDURE" (p.70).

2 Press the [ADDRESS] key.

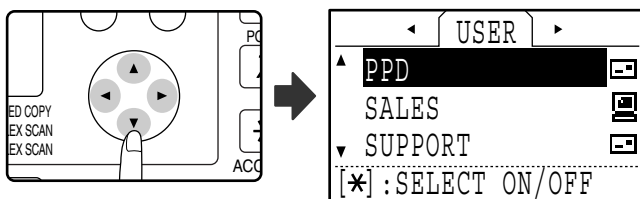


The address selection screen appears

3 Press the [OK] key.

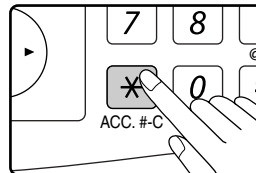


4 Change tabs as needed with the [◀] or [▶] key and select the desired destination with the [▼] or [▲] key.



- The [USER] tab changes as follows each time you press the [▶] key:
[USER]→[ABCD]→[EFGHI]→[JKLMN]→[OPQRST]→[UVWXYZ]→[USER]→[ABCD]→...
- To move backwards through the tabs, press the [◀] key.
- You can switch between information on the selected destination and the destination list by pressing the [#] key.

5 Press the [*] key.



A checkmark appears by the selected destination. To cancel the selection, press the [*] key once again to remove the checkmark.

To select multiple destinations, repeat steps 4 and 5.

6 Press the [OK] key.



Multiple destinations can be selected for a Scan to E-mail transmission. (Maximum of 20.)

Only one destination can be selected for a Scan to FTP or Scan to Desktop transmission.

7 Continue from step 9 of "BASIC TRANSMISSION PROCEDURE" (p.70).



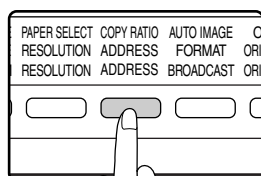
Cancelling transmission

- To cancel the transmission while "Reading" appears or before the [#] key is pressed, press the [C] or [CA] key.
- If the power is turned off or a power failure occurs while a document is being scanned in the SPF/RSPF, the machine will stop and a document misfeed will occur. After the power is restored, remove the document as explained in "ORIGINAL MISFEED IN THE SPF/RSPF" in "Operation manual (for general information and copier)".

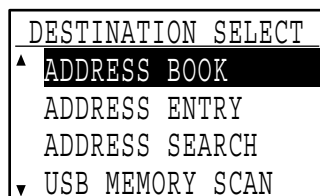
"ADDRESS ENTRY"

1 Perform steps 1 to 6 of "BASIC TRANSMISSION PROCEDURE" (p.70).

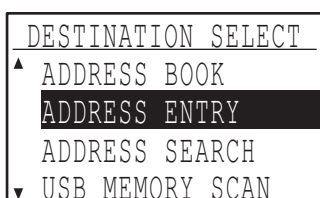
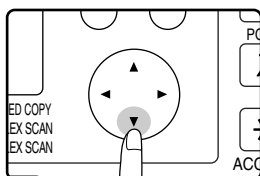
2 Press the [ADDRESS] key



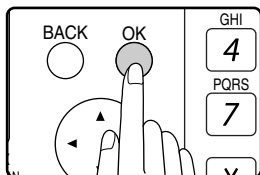
The address selection screen appears.



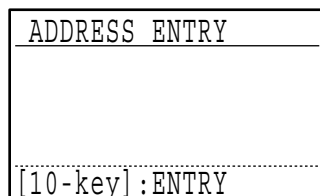
3 Select "ADDRESS ENTRY" with the [▼] key.



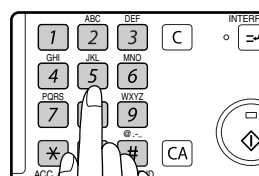
4 Press the [OK] key.



The e-mail address entry screen appears.



5 Enter the destination address.



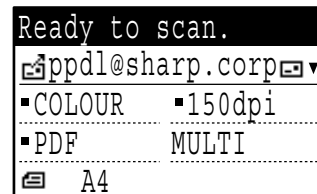
To enter characters, see "ENTERING CHARACTERS" (p.82).

If you make a mistake, press the [C] key and to clear the mistake.

6 Press the [OK] key.



The base screen appears.



7 To enter another address, repeat steps 2 through 6.

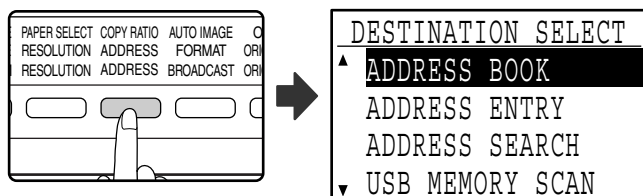
Multiple destinations can be selected for a Scan to E-mail transmission. (Maximum of 20.)

8 Continue from step 9 of "BASIC TRANSMISSION PROCEDURE" (p.70).

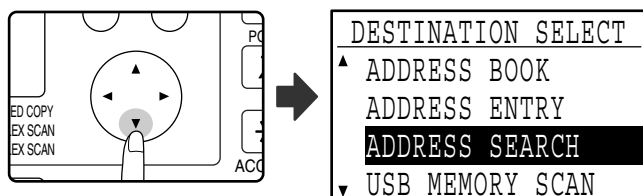
"ADDRESS SEARCH" search

1 Perform steps 1 to 6 of "BASIC TRANSMISSION PROCEDURE" (p.70).

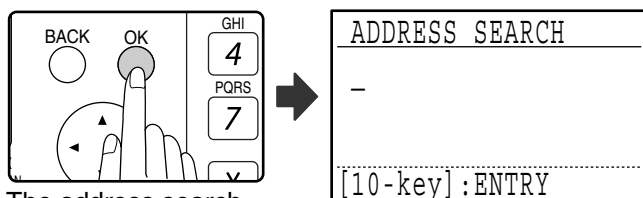
2 Press the [ADDRESS] key



3 Select "ADDRESS SEARCH" with the [▼] key.

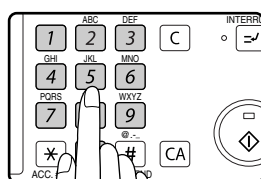


4 Press the [OK] key.



The address search screen appears.

5 Enter the search characters.

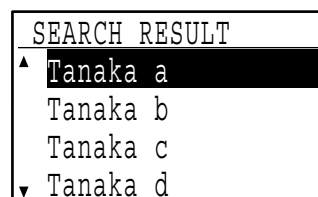


To enter characters, see "ENTERING CHARACTERS" (p.82).
If you make a mistake, press the [C] key to clear the mistake.

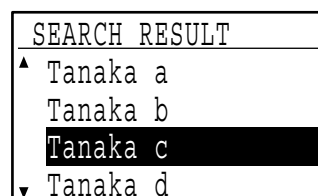
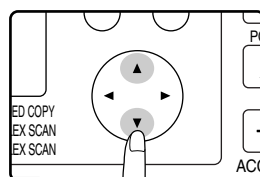
6 Press the [OK] key.



The search results appear.



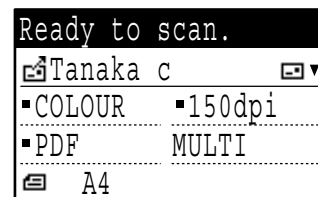
7 Select the desired destination with the [▼] or [▲] key.



8 Press the [OK] key.



The base screen appears.



9 To perform another search, repeat steps 2 through 8.

Multiple destinations can be selected for a Scan to E-mail transmission. (Maximum of 20.)

10 Continue from step 9 of "BASIC TRANSMISSION PROCEDURE" (p.70).

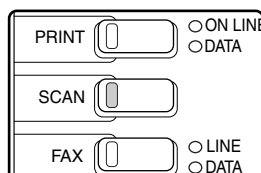
TRANSMITTING A TWO-SIDED ORIGINAL

Follow these steps to automatically transmit a two-sided original. (This is only possible on models that have an RSPF installed.)



Do not use an original that is not a standard size (A3, B4, A4, A4R, B5, B5R, A5, 11" x 17", 8-1/2" x 14", 8-1/2" x 11", 8-1/2" x 11"R, or 5-1/2" x 8-1/2"). Otherwise a scanning error or cut-off image may result.

1 Make sure the machine is in scan mode.



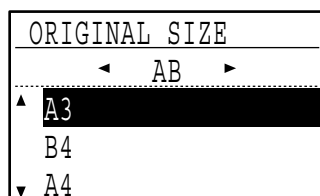
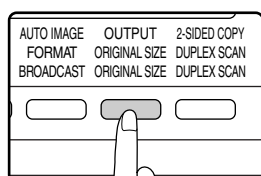
When the SCAN indicator is lit, the machine is in scan mode. If the indicator is not on, press the [SCAN] key. If auditing mode has been enabled for the scan function in the system settings, a message will appear

prompting you to enter your account number when you switch to scan mode. Enter your account number (five digits) with the numeric keys. (p.69)

2 Place the original(s) in the document feeder tray.

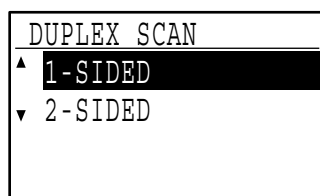
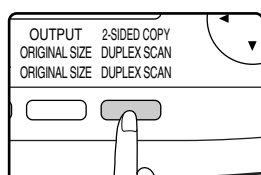
For information on placing an original, see "4. COPY FUNCTIONS" of the "Operation manual (for general information and copier)".

3 Check the original size.



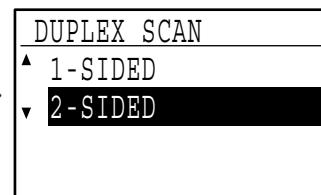
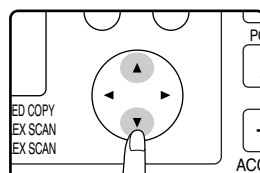
Press the [ORIGINAL SIZE] key to open the original size selection screen. See "MANUALLY SETTING THE SCANNING SIZE" (p.76) to set the original size.

4 Press the [DUPLEX SCAN] key.

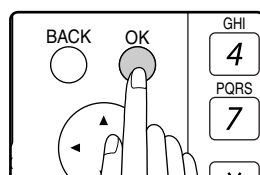


The duplex mode selection screen appears.

5 Select "2-SIDED" with the [▼] or [▲] key.

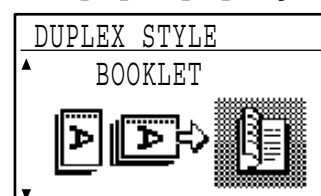


6 Press the [OK] key.



The duplex original type selection screen appears.

7 Select booklet or tablet for the duplex original type with the [▼] or [▲] key.



8 Press the [OK] key.



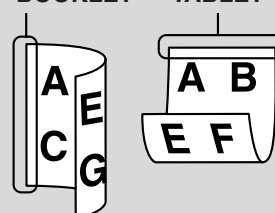
You will return to the base screen and the duplex scanning mode icon will appear.

9 Continue from step 4 of "BASIC TRANSMISSION PROCEDURE" (p.70).



- Booklets and tablets
Two-sided originals that are bound at the side are booklets, and two-sided originals that are bound at the top are tablets.
- Two-sided scanning mode turns off after the transmission is finished. Two-sided scanning mode can also be cancelled by pressing the [CA] key.
- Two-sided scanning is only possible when an RSPF is used. Automatic scanning of both sides of an original is not possible when the document glass is used.
- Two-sided scanning of originals longer than A3 (11" x 17") is not possible.
- To cancel two-sided scanning, select "1-SIDED" in step 5 and then press the [OK] key.




BOOKLET TABLET



CHECKING THE SIZE OF A PLACED ORIGINAL

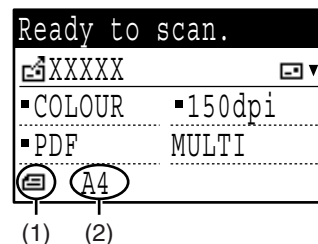
When a standard-size* original is placed in the document feeder tray or on the document glass, the original size is automatically detected (automatic original detection function) and displayed in the original display. Make sure that the size has been detected correctly.

(1) When an original is placed, an icon appears to indicate the original scanning mode.

- : One-sided scanning from the SPF
- : Scanning from the document glass
- : Two-sided scanning from the RSPF

(2) The original size is displayed.

If a non-standard size original is placed or if you wish to change the scanning size, follow the steps below to manually set the original scanning size.



* Standard sizes:

The following sizes are standard sizes: A3, B4, A4, A4R, B5, B5R, A5 (11" x 17", 8-1/2" x 14", 8-1/2" x 11", 8-1/2" x 11"R, 5-1/2" x 8-1/2"). If a non-standard size original (including a special size) is placed, a standard size close to the original size may appear, or the original size may not be displayed.

STORING SCANNING SETTINGS

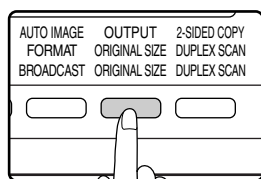
Sets of scanning settings (scan size, colour mode, resolution, file type, etc.) can be stored for use in various scanning applications.

MANUALLY SETTING THE SCANNING SIZE

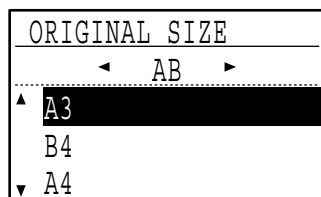
If you load an original that is not a standard size, or the original size is not correctly detected, be sure to press the [ORIGINAL SIZE] key and set the original size manually.

Perform the following steps after loading the document in the document feeder tray or on the document glass.

1 Press the [ORIGINAL SIZE] key.



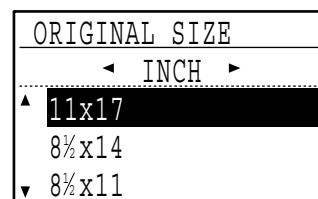
The original size selection screen will appear.



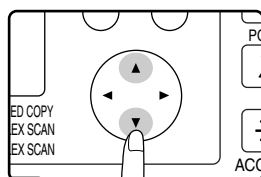
To select an INCH size, press the [▶] key and go to step 4.



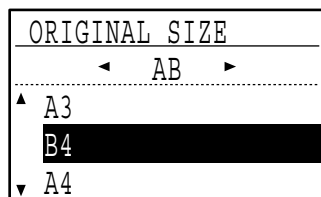
When the [▶] key is pressed, the original size selection screen for AB sizes appears.



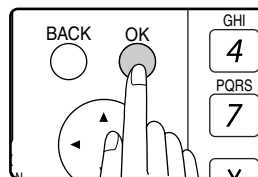
2 Select the original size with the [▼] or [▲] key.



The selected original size is highlighted.



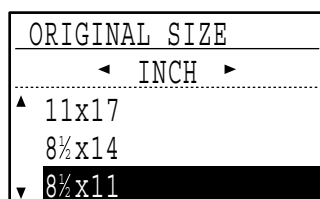
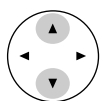
3 Press the [OK] key.



You will return to the base screen and the selected original size will appear in the original display.

Selecting an INCH original size

4 Select the original size with the [▼] or [▲] key.



To return to the selection of inch original sizes, press the [◀] key and return to step 2.

5 Press the [OK] key.



You will return to the base screen and the selected original size will appear in the original display.

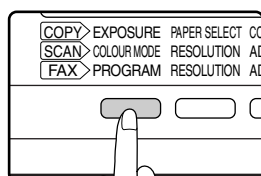


Note To cancel a manual original size setting, press the [CA] key. If it is not possible to select the actual original size, select a size that is larger than the actual original size. If a smaller size is selected, part of the original will not be transmitted.

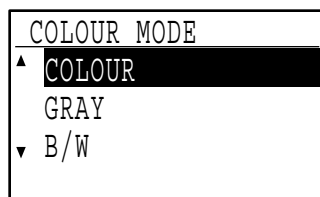
SELECTING THE COLOUR MODE

After placing the original, you can select an appropriate colour mode for the original type. Place the original in the document feeder tray or on the document glass (steps 1 to 3 on p.70) and then follow the steps below. The factory default setting for the colour mode is "COLOUR". To change the colour mode, follow these steps.

1 Press the [COLOUR MODE] key.



The colour mode selection screen appears.

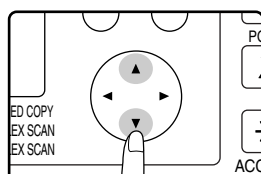


COLOUR: Select this mode for colour originals.

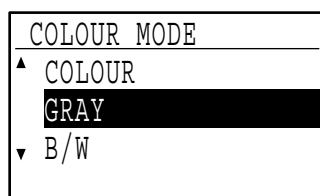
GRAY : Select this mode for a black and white photograph or when a monochrome image is needed.

B/W : Select this mode when you wish to scan a photo in monochrome or when you wish to make text clearer.

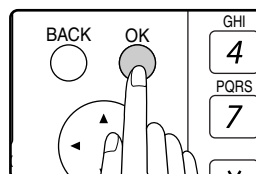
2 Select the colour mode with the [▼] or [▲] key.



The selected mode is highlighted.



3 Press the [OK] key.



You will return to the base screen and the selected mode will appear in the colour mode display.



Note Two-sided scanning is not possible when "COLOUR MODE" is set to "COLOUR" or "GRAY".

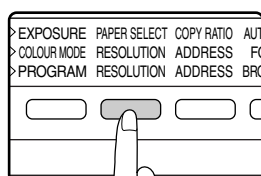
SELECTING THE RESOLUTION

The scanning resolution can be selected. After selecting scan mode and placing the original (steps 1 to 3 on p.70), perform the procedure below.

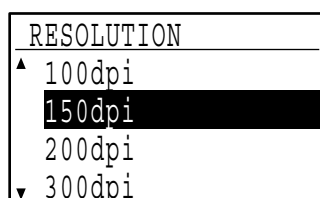
The factory default setting for the resolution is "150dpi" (e-mail/FTP mode).

If you need to change the resolution, follow these steps.

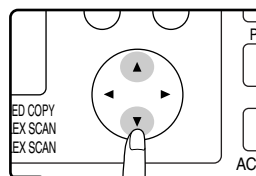
1 Press the [RESOLUTION] key.



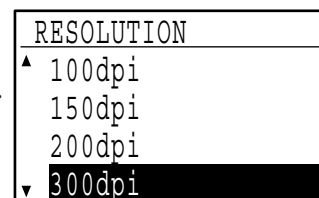
The resolution selection screen appears.



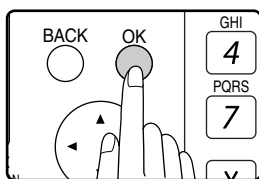
2 Select the resolution with the [▼] or [▲] key.



The selected resolution is highlighted.



3 Press the [OK] key.



You will return to the base screen and the selected resolution will appear in the resolution display.



Resolution

- The default resolution setting is 150 dpi. For typical text documents, a resolution of 200 dpi or 300 dpi produces sufficiently legible image data. (A resolution of 200 dpi corresponds to the generally used "FINE" in fax mode. For this reason, the 600 dpi setting should only be used in cases where high-clarity image reproduction is required, such as an original that includes photographs or illustrations.
- When an original is scanned at the maximum resolution (600 dpi), the amount of memory available, the original size, the colour mode, and other setting conditions may cause the resolution to change.

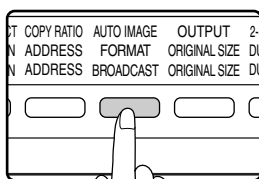
SELECTING THE FILE FORMAT

After selecting scan mode and placing the original (steps 1 to 3 on p.70), perform the procedure below.

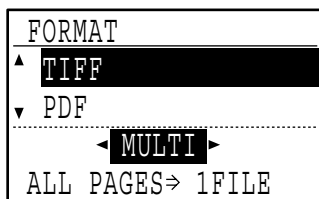
The factory default settings are "PDF" for the file type and "MULTI" for the file creation method (multiple scanned images are combined into one file).

If you need to change the file format, follow these steps.

1 Press the [FORMAT] key.

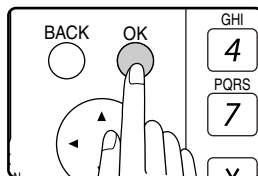


The format selection screen appears.



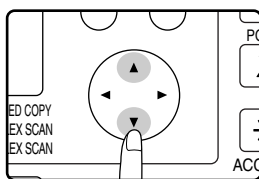
When "MULTI" is selected, all scanned images can be combined into a single file, or one file can be created for each page (pages 2 to 6).

3 Press the [OK] key.

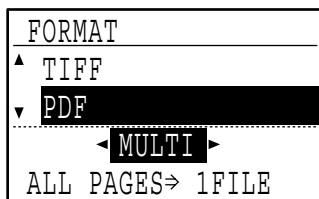


You will return to the base screen and the selected format will appear in the file type and file creation method display.

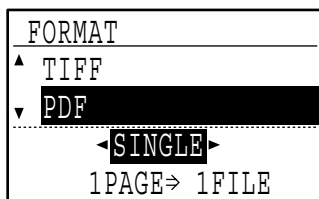
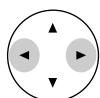
2 Select the file type with the [▼] or [▲] key.



The selected file type is highlighted.



To set the file creation method, press the [◀] or [▶] key.



When "SINGLE" is selected, a one-page file is created for the scanned image.



- When the file type is set to "JPEG", the file creation method can only be set to "SINGLE".
- To open the scanned image without using the software program in the accompanied CD-ROM, the recipient must have a viewer program that can open the image format (file type) that was selected as explained above. If the recipient cannot open the image, try sending the image in a different format.

ADJUSTING THE SCANNING EXPOSURE IN B/W MODE

The exposure for an image can be adjusted when scanning in black and white mode. The exposure can be selected from the following three options: "AUTO", "TEXT", or "PHOTO".

The exposure levels can be manually selected from five levels for options other than "AUTO".

Select scan mode, place the original (steps 1 to 3 on [p.70](#)), and then follow the procedure below.

AUTO

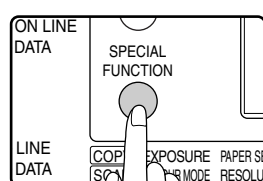
The default setting is "AUTO". The exposure level is adjusted automatically depending on the original to be scanned. The exposure level is set to low for originals that have backgrounds containing shadows or colours.

TEXT, PHOTO

TEXT: Scans light text dark and dark backgrounds light to make the scanned text clear.

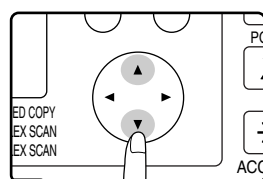
PHOTO: Scans the mid values of gradation in photographs vividly.

1 Press the [SPECIAL FUNCTION] key in scan mode.



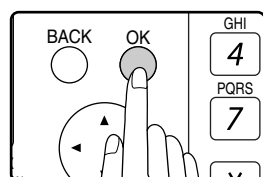
Perform this operation from the base screen of scan mode. When the [SPECIAL FUNCTION] key is pressed, the special function menu appears. (To select scan mode, see step 1 on [p.70](#).)

2 Select "B/W ADJUST" with the [▼] or [▲] key.

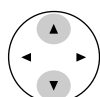


SPECIAL FUNCTION
▲ B/W ADJUST
EXPOSURE ADJUST
LIGHT SOURCE
▼ VOID AREA

3 Press the [OK] key.

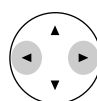


4 Select a resolution suitable for the original using the [▲], and [▼] keys.



B/W ADJUST
▲ AUTO AUTO
TEXT
▼ PHOTO

5 Adjust the exposure as needed using the [◀], [▶] keys.



B/W ADJUST
▲ AUTO AUTO
TEXT
▼ PHOTO

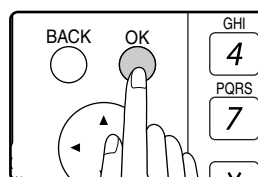
- The exposure cannot be adjusted in auto mode.
- Press the [◀] key to make the exposure darker, and the [▶] key to make the exposure lighter.
- Set the default exposure settings for "TEXT" and "PHOTO" in System Settings.



Guidelines for exposure levels

- 1 to 2: Dark originals such as a newspaper
- 3: Normal density originals
- 4 to 5: Originals written in pencil or coloured text

6 Press the [OK] key.



To revert to auto mode, select "AUTO" in step 4 and press the [OK] key.

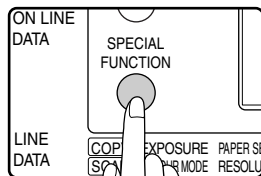
ADJUSTING THE SCANNING EXPOSURE

The exposure for an image can be adjusted when scanning in colour mode or grey mode. The larger the value, the darker the image.

Select scan mode, place the original (steps 1 to 3 on [p.70](#)), and then follow the procedure below.

The scanning exposure is set to "3" by factory default.

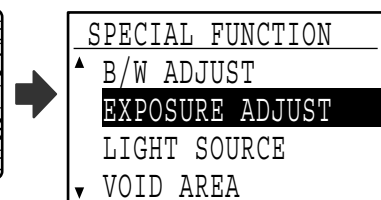
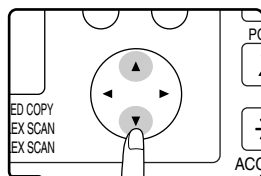
1 Press the [SPECIAL FUNCTION] key in scan mode.



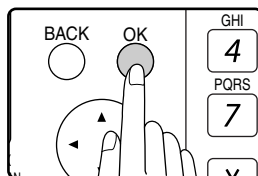
Perform this operation from the base screen of scan mode.

When the [SPECIAL FUNCTION] key is pressed, the special function menu appears. (To select scan mode, see step 1 on [p.70](#).)

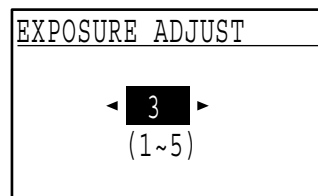
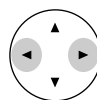
2 Select "EXPOSURE ADJUST" with the [▼] or [▲] key.



3 Press the [OK] key.



4 Adjust the scanning exposure with the [◀] or [▶] key.



5 Press the [OK] key.



The setting is stored and you return to the base screen.



The scanning exposure can be adjusted only when "COLOUR MODE" is set to "COLOUR" or "GRAY". ([p.77](#))

SETTING THE LIGHT SOURCE COLOUR

When scanning in black and white mode, you can set the light source colour.

For example, if you do not wish to scan the red parts of an original, set the light source colour to "RED". ("WHITE" will cause all colours to be scanned.)

Select scan mode, place the original (steps 1 to 3 on [p.70](#)), and then follow the procedure below.

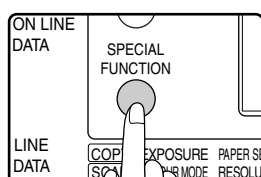
The factory default setting for the light source colour is "WHITE".

If you need to change the light source colour, follow these steps.



The light source colour can only be selected when the colour mode is set to "B/W". ([p.77](#))

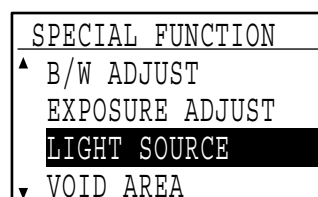
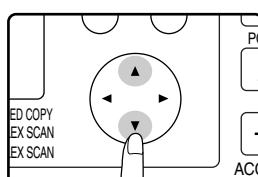
1 Press the [SPECIAL FUNCTION] key in scan mode.



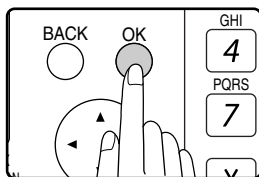
Perform this operation from the base screen of scan mode.

When the [SPECIAL FUNCTION] key is pressed, the special function menu appears. (To select scan mode, see step 1 on [p.70](#).)

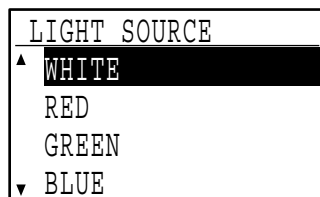
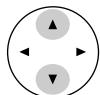
2 Select "LIGHT SOURCE" with the [▼] or [▲] key.



3 Press the [OK] key.



4 Select the desired light source colour with the [▼] or [▲] key.



5 Press the [OK] key.



The setting is stored and you return to the base screen.

ENABLING SCANNING MARGINS (VOID AREA)

When this function is enabled, margins (void areas that are not scanned) are created around the edges of the machine's maximum scanning area.

Select scan mode, place the original (steps 1 to 3 on [p.70](#)), and then follow the procedure below.

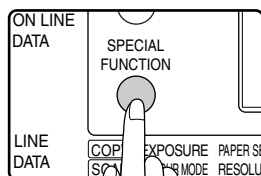
The factory default setting for the void area is "OFF" (disabled).

If you need to change the void area setting, follow these steps.

Void area: 7/64" (2.5 mm) from the top and bottom edges

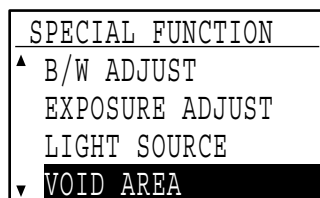
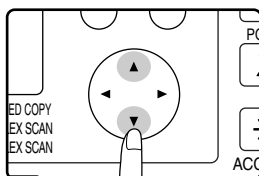
1/8" (3.0 mm) from the left and right edges

1 Press the [SPECIAL FUNCTION] key in scan mode.

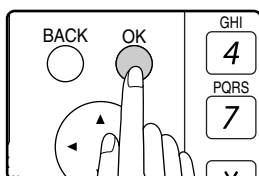


Perform this operation from the base screen of scan mode. When the [SPECIAL FUNCTION] key is pressed, the special function menu appears. (To select scan mode, see step 1 on [p.70](#).)

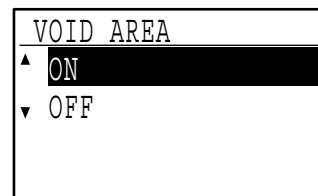
2 Select "VOID AREA" with the [▼] or [▲] key.



3 Press the [OK] key.



4 Select "ON" or "OFF" with the [▼] or [▲] key.



5 Press the [OK] key.

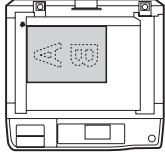
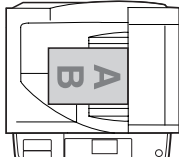
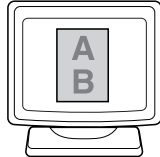
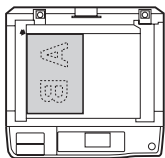
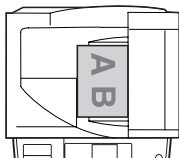
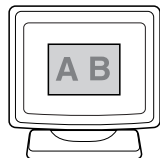


The setting is stored and you return to the base screen.


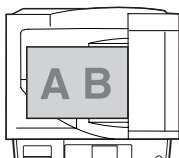
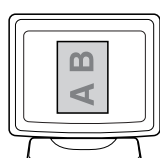
IMAGE ORIENTATION AND STANDARD ORIGINAL PLACEMENT ORIENTATION

When using the document glass, the original should be placed face down in the far left corner of the glass with the top edge of the original at the left edge of the glass.

When using the SPF/RSPF, the original should be placed face up in the middle of the document feeder tray, with the top of the original to the right.

Document glass	SPF/RSPF	Scanning result
		
		

Long horizontal originals of size A3, B4, 11" x 17", or 8-1/2" x 14" can only be placed as shown below. For this reason, the scanned image will be rotated 90° when viewed on a computer.

Document glass	SPF/RSPF	Scanning result
		

ENTERING CHARACTERS

Characters are entered by pressing the numeric keys on the operation panel. The letters entered with each numeric key are shown below.

1	ABC	DEF
2	GHI	JKL
3	MNO	PQRS
4	TUV	WXYZ
5	ACC.#-C	READ-END
6	7	8
9	*	0
#		

Characters that can be entered		
Key	Directly entering an e-mail address	Searching for an address on an LDAP server
1	1	1 Space
2	a b c 2 A B C	A B C 2 a b c
3	d e f 3 D E F	D E F 3 d e f
4	g h i 4 G H I	G H I 4 g h i
5	j k l 5 J K L	J K L 5 j k l
6	m n o 6 M N O	M N O 6 m n o
7	p q r s 7 P Q R S	P Q R S 7 p q r s
8	t u v 8 T U V	T U V 8 t u v
9	w x y z 9 W X Y Z	W X Y Z 9 w x y z
*	_.@	* } [] [? > = ; , +) (' & % \$ " ! / _ - . @ #
0	0	0
#	@ . - _	# @ . - _ / ! " \$ % & ' () + , ; = > ? [] { } *



To enter two characters in succession that require the same key, press the [▶] key to move the cursor after entering the first character.

Example: Entering "ab" (when directly entering an e-mail address)

Press the [2] key once, press the [▶] key once to move the cursor, and then press the [2] key twice.

USB MEMORY SCAN

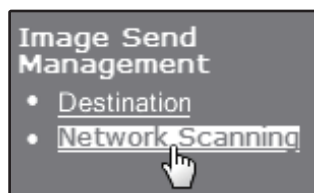
BASIC SETTINGS FOR USB MEMORY SCAN (FOR THE ADMINISTRATOR)

To use the USB Memory Scan function, setting from the Web page is required.

Click the menu frame and configure the required settings. A password is required to access this screen. [\(p.59\)](#)

These settings should only be configured by the network administrator. For explanations of each of the items, click [Help] in the menu frame.

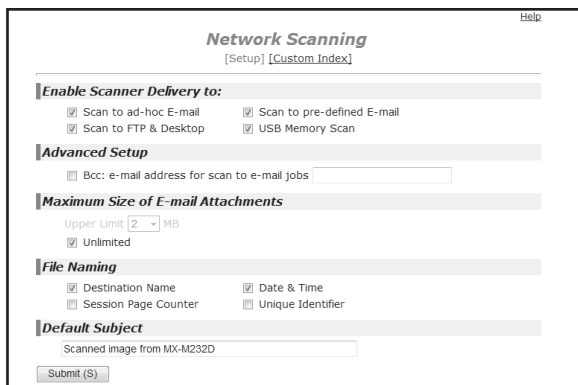
1 Click [Network Scanning] in the menu frame.



The Network Scanning setup page appears.

2 Select "USB Memory Scan".

In the "Enable Scanner Delivery to:" field, click the checkbox so that a checkmark appears in the checkbox.

A screenshot of the "Network Scanning" setup page. At the top, it says "Network Scanning" with links for "[Setup]" and "[Custom Index]", and a "Help" link. The page is divided into several sections: "Enable Scanner Delivery to:" with checkboxes for "Scan to ad-hoc E-mail", "Scan to pre-defined E-mail", "Scan to FTP & Desktop", and "USB Memory Scan" (which is checked); "Advanced Setup" with a checkbox for "Bcc: e-mail address for scan to e-mail jobs" and a text input field; "Maximum Size of E-mail Attachments" with a dropdown for "Upper Limit" set to "2" MB and a checked "Unlimited" checkbox; "File Naming" with checkboxes for "Destination Name", "Session Page Counter", "Date & Time", and "Unique Identifier" (all checked); and "Default Subject" with a text input field containing "Scanned image from MX-M232D". A "Submit (S)" button is at the bottom.

3 Select the method for assigning a file name to a scanned image.

Select the method for assigning a file name to a scanned image. In "File Naming", click the items that you wish to use in the file name. "Date & Time" is initially selected.

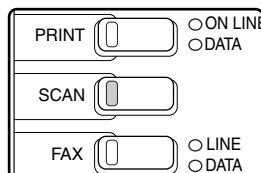
4 Click [Submit].

After entering the settings, be sure to click [Submit] to store them.

USING THE USB MEMORY SCAN FUNCTION

A scanned image can be sent to a commercially available USB memory device that has been connected to the Network expansion kit on the back of the machine.

1 Make sure the machine is in scan mode.



When the SCAN indicator is lit, the machine is in scan mode. If the indicator is not lit, press the [SCAN] key. If auditing mode has been enabled for the scan function in the system settings, a message

will appear prompting you to enter your account number when you switch to scan mode. Enter your account number (five digits) with the numeric keys. (p.69)

2 Place the original(s) in the document feeder tray or on the document glass.

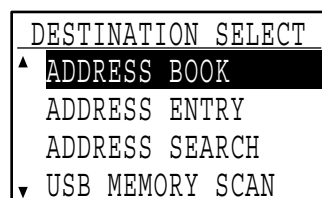
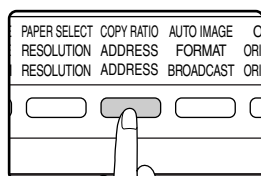
For detailed information on placing an original, see "4. COPY FUNCTIONS" of the "Operation manual (for general information and copier)".

If you are using the document glass to send multiple pages, place the first page first.

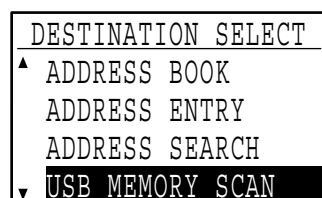
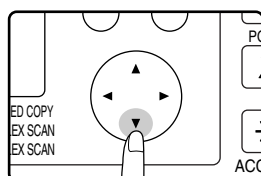


You cannot place originals in both the document feeder tray and on the document glass and send them in a single transmission.

3 Press the [ADDRESS] key.

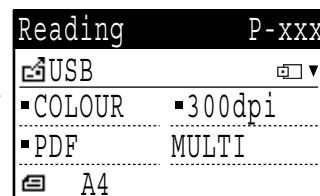
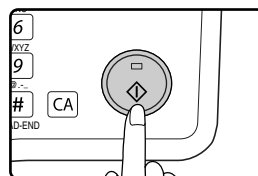


4 Select "USB MEMORY SCAN" using the [▼] key.



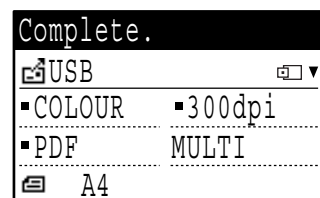
Using the SPF/RSPF

5 Press the [START] key (⬇).



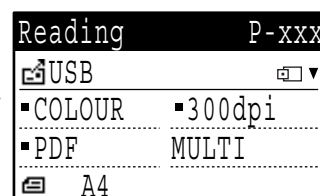
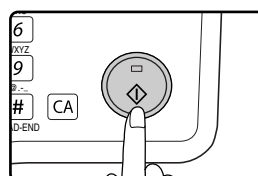
Scanning begins.

If scanning is completed normally, the following screen is appears briefly and then the display returns to the base screen.



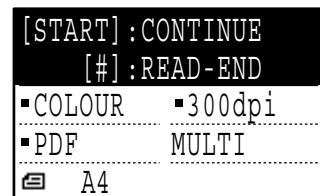
Using the document glass

5 Press the [START] key (⬇).



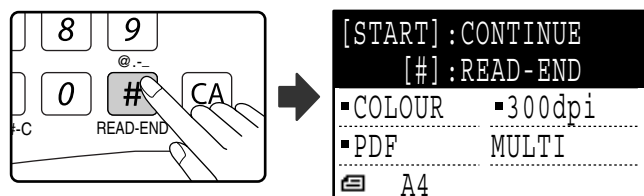
Scanning begins.

6 If you have another page to scan, change pages and then press [START] key (⬇).



- Repeat this sequence until all pages have been scanned.
- You can change the colour mode and resolution setting as needed for each page. (p.77)
- If no action is taken for one minute (the [START] key (⬇) is not pressed), scanning automatically ends and transmission begins.

7 When the final original page has been scanned, press the [READ-END] key ([#]).



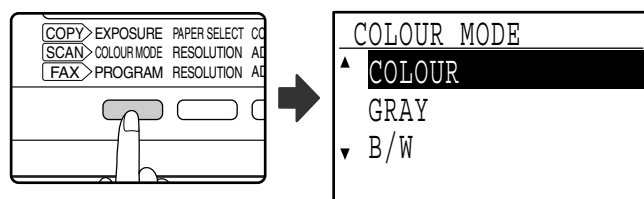
Open the SPF/RSPF and remove the document. When the original is removed or any key operation is performed, the display returns to the base screen.

CHANGE THE SCAN SETTINGS

To change the scan setting, perform the following operations after step 4.

To specify the colour mode

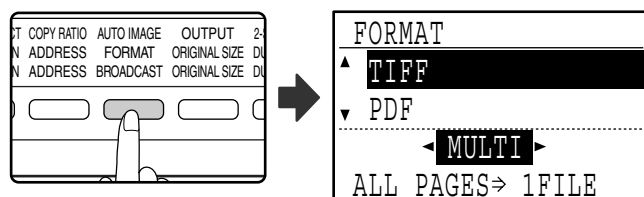
Press the [COLOUR MODE] key and specify the colour mode.
The colour mode is set to "COLOUR" by factory default.



To specify the file format

Press the [FORMAT] key and specify the format.

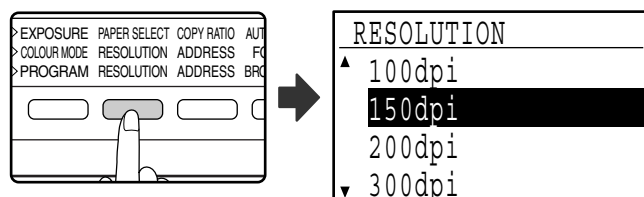
By factory default, the file type is set to "PDF", and the generation unit of the file is set to "MULTI ALL PAGES→1FILE".



To specify the resolution

Press the [RESOLUTION] key and specify the format.

The resolution is set to "150dpi" by factory default.

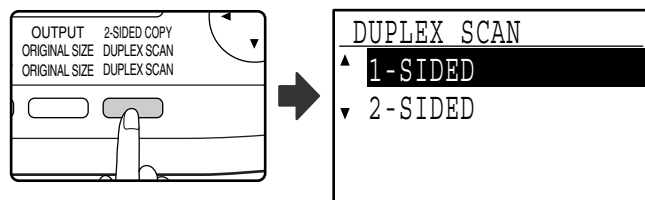


To specify 1-Sided or 2-Sided of the original

This is available only for models equipped with the automatic 2-sided document feeder.

Press the [DUPLEX SCAN] key to specify 1-sided or 2-sided, and the method to place the original.

The Duplex Scan is set to "1-SIDED" by factory default.

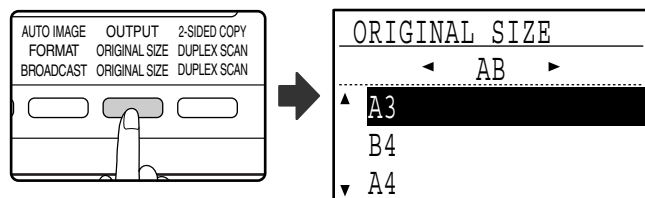


To specify the original size

When an original other than a defined size (for example inch size paper) is placed, or the original size is not correctly detected, press the [ORIGINAL SIZE] key and specify the original size manually.

After placing the document on the document feeder tray or document glass, follow the below procedure.

Press the [ORIGINAL SIZE] key and specify the original size.



TROUBLESHOOTING

If a problem or question arises, try to solve the situation using the following information before contacting your authorised SHARP dealer.

For problems related to the machine such as running out of paper or paper misfeeds, see the Operation Guide for the machine.

Points to check for connections

■ Are you using a port that was created with Standard TCP/IP Port?

If you are using a port created using Standard TCP/IP Port in Windows environment, printing may not take place correctly if "SNMP Status Enabled" is selected in the port settings of the printer driver. Open the printer driver properties and click the "Configure Port" button on the "Ports" tab. In the window that appears, make sure the "SNMP Status Enabled" checkbox is not selected.

Problem	Cause and solution	Page
The machine does not connect to the network.	The LAN cable is disconnected. → Make sure that the LAN cable is firmly inserted in the connectors on the machine and your computer. To connect the cable, see the "Software setup guide".	14
	Is the machine configured for use on the same network as the computer? → The machine cannot be used if it is not connected to the same network as the computer, or if it is not configured for use on the network. For more information, consult your network administrator.	—
	(Points to check on the Macintosh) AppleTalk is disabled. → In Mac OS X, click [Network] in [System Preferences] and select Ethernet in "Show". Click the [AppleTalk] tab and make sure that [Make AppleTalk Active] is selected.	—

Problem	Cause and solution	Page
The machine does not receive print data. (The DATA indicator does not blink.)	The machine is set to off-line mode. → Press the [PRINT] key to select printer mode and then select "ONLINE" with the [▲] key.	20, 43
	Your machine is not selected correctly in the application for the print job. → In the dialog box that appears after you select [Print] from the [File] menu in the application, make sure you have selected the machine as the printer.	20, 43
	Copying or scanning is in progress, or a fax is being printed (when the fax option is installed). → Wait until copying, scanning, or fax printing is finished.	—
	Has the printer driver been installed correctly? → Install the appropriate printer driver.	11, 40
	The port setting is not correct. → Printing is not possible if the printer driver port setting is not correct. Set the port correctly.	—
	"CANCEL JOBS OF INVALID ACCOUNTS" is enabled. → Enter a correct account number in the printer driver before printing (consult your administrator).	23, 45
	The printed page limit has been reached. → Consult your administrator. (Depending on the machine status, the DATA indicator may blink.)	61
Printing does not take place. (The DATA indicator is blinking.)	There is no paper in the specified tray. → Load paper in the tray.	22, 44
	"FORCED OUTPUT OF PRINT" is disabled. → Add paper to the bypass tray, press the [PRINT] key on the machine to switch to printer mode, and then select "BYPASS-TRAY". Printing will resume.	22, 44
Printing is slow.	Simultaneous use of two or more application software programs. → Start printing after quitting all unused application software programs.	—
The printed image is light and uneven.	The paper is loaded so that printing takes place on the back side of the paper. → Some paper types have a front and back side. If the paper is loaded so that printing takes place on the back side, toner will not adhere well to the paper and a good image will not be obtained.	82
The printed image is dirty.	You are using paper that is outside the specified size and weight range. → Use paper within the specified range.	—
	The paper is curled or damp. → Replace the paper. During periods when the machine is not used for a long time, remove the paper from the tray and store it in a dark place in a bag to prevent moisture absorption.	—
	You did not set sufficient margins in the paper settings of your application. → The top and bottom of the paper may be dirty if the margins are set outside of the specified print quality area. → Set the margins within the specified print quality area.	—

Problem	Cause and solution	Page
The printed image is skewed or it runs off the paper.	The paper size set in the printer driver is not the same as the paper size loaded in the tray. → Make sure that the paper size setting matches the size of the paper loaded in the tray. If the [Fit to Page] setting is selected in Windows, make sure that the paper size selected in the "Fit To Paper Size" drop-down list is the same as the size of the paper loaded in the tray.	—
	The image orientation setting in the printer driver is not correct. → On a Windows environment, click the [Paper] tab in the printer driver setup screen and make sure that "Image Orientation" is set to the correct orientation. On a Macintosh, make sure that the correct orientation is selected in the application settings.	—
	Paper is not loaded properly. → Make sure the paper is correctly loaded.	—
	The margins are not set correctly in the application. → Check the paper size and margin settings in the application. Also make sure that the print settings are correct for the paper size.	—
The scanned image is clipped.	The selected "Scan Size" setting is smaller than the actual original size. → Set the scan size to the actual original size and make sure that the original is placed in the correct orientation. If you intentionally selected a size setting smaller than the actual original size, take into consideration the part of the original that you wish to scan when placing the original. For example, if the actual size is A4 (8-1/2" x 11") and you selected B5 (5-1/2" x 8-1/2") for the size setting, place the original so that the part that you wish to scan is within the B5 (5-1/2" x 8-1/2") area at the left, centre of the glass.	—
The scanned image data cannot be opened.	The viewer program does not support the format of the scanned image data. → The scanned image is provided in PDF format. To view the image in PDF format, Acrobat Reader or Adobe Reader of Adobe Systems Incorporated is required. If neither program is installed on your computer, the programs can be downloaded from the following URL: http://www.adobe.com/	—
When the same file name is used for two successive Scan to FTP transmissions, the second file is not sent.	The first file may still remain in the cache of the file server client. Disable use of the cache in the client software.	—
The recipient does not receive a transmitted data.	There is a mistake in the stored destination information or the wrong destination was selected. → Make sure that the correct destination information is stored. If there is a mistake, correct it. (p.56) * If delivery by e-mail (Scan to E-mail) is unsuccessful, an error message such as "Undelivered Message" may be sent to the designated administrator's e-mail address. This information may help you determine the cause of the problem.	56

Problem	Cause and solution	Page
The recipient does not receive data sent by e-mail (Scan to E-mail).	Check the Web page to see if a limit has been set for the size of image files sent using Scan to E-mail (the factory default setting is "Unlimited"). A limit can be set from 1 MB to 10 MB. Consult the administrator of the Web page to select a suitable limit. (p.57)	57
	The amount of data that can be sent in one e-mail transmission is sometimes limited by the administrator of the mail server. Even if the file size is within the limit explained above, if it exceeds the limit set by the administrator of the mail server, the file will not be delivered to the recipient. Decrease the amount of data sent in the e-mail transmission (reduce the number of pages scanned). (Ask your mail server administrator what the data limit is for one e-mail transmission.)	—
Transmission takes a long time.	When there is a large amount of image information, the data file is also large and transmission takes a long time.	—
The START indicator is not lit in the USB Memory Scan mode.	The USB memory is not recognized or not inserted, or any device other than USB memory is inserted in the USB port. → Check the USB port of the Network expansion kit.	—
"Check the USB memory." appears in the display during USB Memory Scan.	Any device other than USB memory is inserted in the USB port, the USB memory is write-protected, or it was taken off during USB Memory Scan. → Check your USB memory device and use it properly.	—
"Memory is full. Job is canceled." appears in the display during USB Memory Scan.	The memory of the USB device became full. → Use the USB device with sufficient memory.	—

A notice page is printed

If you find that a notice page has been printed at the end of a print job, the print data received from the computer has not been printed as specified. Fix the problem as explained below and then try printing again.

What to do when a notice page is printed

A notice page is printed when a print job containing more data than can be held in the machine memory is set. If you printed using the printer driver, remove the checkmark from [ROPM] in the [Configuration] tab of the printer driver setup screen to disable the ROPM function. If you need to use the ROPM function, select a lower resolution setting in the printer driver or increase the amount of memory.



- The Notice Page can be set to not print out in "NOTICE PAGE" (p.8) of the system settings.
- The machine memory is also used to temporarily hold the image of the original when a copy is made. This memory is also used to temporarily store original image data during a copy job. The proportion of memory allocated to the printer function can be changed in the system settings. (See the "System settings guide".) The memory can be increased by adding the optional memory modules. For details, contact your SHARP dealer.

DISPLAY MESSAGES

If a transmission error occurs when you send a scanned image, a message informing you of the error and an error code will appear in the display on the machine.

Error Code	Solution	Page
CE-00 CE-01	Turn off the power and then turn it back on. Consult with your network administrator to make sure that no problems exist on the network or in the server. If the error is not cleared after turning the power off and on, turn off the power and contact your dealer.	—
CE-02 CE-04	The scanned image was not sent because a connection to the server could not be established. Make sure that the SMTP server settings or Scan to FTP destination settings in the Web page are correct. The procedure for configuring the SMTP server is explained in "Configuring SMTP, DNS and LDAP server settings", and the procedure for editing Scan to FTP destination information is explained in "Editing and deleting programmed transmission destinations". For information on the settings to be entered, see Help in the Web page.	56, 58
CE-03	The scanned image was not sent because the server was busy or there was too much traffic on line. Wait briefly and then try again.	—
CE-05	The scanned image was not sent because the directory of the destination FTP server was not correct. Make sure that the correct FTP server information is configured in the Web page.	56
CE-09	The size of the scanned image file exceeds the limit set in "Maximum Size of E-mail attachments" in the Web page. Reduce the number of original pages scanned into the file, or change the limit set in "Maximum Size of E-mail attachments".	57
CE-11	The memory became full during scanning. Scan less pages, lower the resolution, or change the colour mode so that the file size is smaller, and try scanning again.	77, 77
CE-12	The maximum number of destinations of a global address search has been exceeded. Increase the number of search characters to narrow the range of the global address search.	74

IF YOUR E-MAIL IS RETURNED

If a Scan to E-mail transmission is not successful, an e-mail informing you of this fact is sent to the return address configured in the SMTP server. If this happens, read the e-mail and determine the cause of the error, and then repeat the transmission.

IMPORTANT POINTS WHEN USING SCAN TO E-MAIL

Be careful not to send image data files that are too large.

Your mail server's system administrator may have placed a limit on the amount of data that can be sent in one e-mail transmission. If this limit is exceeded, the e-mail will not be delivered to the recipient. Even if there is no limit and your e-mail is successfully delivered, a large data file may take a long time to be received and place a heavy burden on the recipient's network, depending on the recipient's network (Internet) connection environment.

If large image data files are repeatedly sent, the resulting burden on the network may slow down the speed of other, unrelated data transmissions and in some cases, may even cause the mail server or network to go down.

The following table shows the approximate file sizes when the A4 (8-1/2" x 11") size originals (one page each) shown below are scanned.

Resolution	File size of text original A when scanned	File size of photo original B when scanned	
	B/W	Grey	Colour
75 dpi	Approx. 10 KB	Approx. 125 KB	Approx. 140 KB
300 dpi	Approx. 34 KB	Approx. 1430 KB (approx. 1.43 MB)	Approx. 1440 KB (approx. 1.44 MB)

* All sizes are for image files created in TIFF G4 format.

If multiple images are scanned, the file size will be approximately (Size of each image as indicated above) x (Number of images scanned).



The scan resolution will vary depending on the scanning area and how much memory in the machine is free.

Although the actual limitation depends on your network environment, a general guideline for the maximum file size for Scan to E-mail is 2000 KB (2 MB). In cases where you need to send multiple images in one transmission, try such measures as lowering the resolution mode.

Original image samples

The original images shown below are samples to help you understand the above explanations. Note that these images are smaller than the actual originals (the actual originals are A4 or 8-1/2" x 11").

Text original A



Photo original B



REMOVING THE SOFTWARE

In the event that you need to remove the driver or utilities, follow these steps:

1 Click the "Start" button, and then click "Control Panel".

- In Windows XP, click the "start" button and then click "Control Panel".
- In Windows 2000, click the "Start" button, select "Settings", and then click "Control Panel".

2 Click "Uninstall a program".

- In Windows XP, click "Add or Remove Programs".
- In Windows 2000, double-click the "Add/Remove Programs" icon.

3 Select the driver or utility that you wish to remove from the list, and click the appropriate button to remove it.

For more information, refer to your operating manual or to the help files for your operating system.

4 Restart your computer.

For information on power requirements, power consumption, dimensions, weight, and other specifications that are common to all features of the machine, refer to the Operation Guide for the machine.

NETWORK EXPANSION KIT SPECIFICATIONS

Memory	256 MB
Emulation	PCL6
Interface	10Base-T/100Base-TX Ethernet, USB 2.0 (Full Speed / Hi Speed compatible interface)

PRINTER SPECIFICATIONS

Printing speed	The print speed based on the machine specifications
Resolution	600 dpi / 300 dpi
Network expansion kit memory	256 MB
Emulation	PCL6 PS3 (PostScript 3)*
Installed fonts	PCL6 compatible: 80 outline fonts and 1 bitmap font PostScript 3 compatible*: 136 outline fonts
Interface	10Base-T/100Base-TX Ethernet, USB 2.0 (Full Speed / Hi Speed compatible interface)

* Available only if the PS3 expansion kit (MX-PK10) is installed.



As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice.

SCANNER SPECIFICATIONS

USB MEMORY SCAN

Scanning colours	Colour, grey, black and white
Resolution	75dpi/100dpi/150 dpi/200 dpi/300 dpi/400 dpi/600 dpi
Device	USB memory
Interface	USB 2.0 (Full-Speed/Hi-Speed compatible interface)
Paper Size	A5, B5, B5R, A4, A4R, B4, A3 (5-1/2" x 8-1/2", 8-1/2" x 11", 8-1/2" x 11"R, 8-1/2" x 14", 11" x 17")
Supported client PC operating systems	Windows 2000 Professional, Windows XP Home Edition, Windows XP Professional, Windows Vista, Windows 7
File formats	File types Black and white: PDF, TIFF Colour/greyscale: JPEG, PDF, TIFF Compression modes Black and white: None/G3/G4 Colour/greyscale: JPEG

Remarks

Two-sided originals	Possible
Optical resolution	400 x 600dpi
File creation method	One file per each 1 to 6 pages/One file for all pages
Scan destinations	Scan to FTP Scan to Desktop Scan to E-mail
Management system	Uses built-in Web server
Recommended Web browser	Internet Explorer: 6.0 or higher (Windows®)
Supported mail system	Mail server that supports SMTP, mail server that supports POP3
Number of destinations	200 maximum*
Utilities	Sharpdesk

* A total of 200 destinations can be stored, including E-mail, FTP, Desktop and Group destinations. Among these, multiple e-mail addresses (up to 100) can be stored as a group. Note that this may reduce the maximum number of destinations (normally 200) that can be stored.

Some discrepancies may exist in the illustrations and content due to improvements to the machine.

TWAIN/BUTTON MANAGER SCAN

Type	Flatbed scanner
Scanning method	Document glass/SPF/RSPF
Light source	Cold cathode fluorescent lamp
Resolution	Factory default: 150 dpi Setting range: 50 dpi - 9600 dpi
Original types	Sheets, bound documents
Effective scanning area	Approx. 297 mm (11-11/16") (Lengthwise) x 431 mm (16-31/32") (Width)
Scanning speed	1.44 msec/line (Colour), 0.48msec/line (Greyscale/Black and White)
Input Data	1 bit or 12 bit
Output Data	1 bit or 8 bit
Scanning colours	Black and white 2 value, Greyscale, Colour
Protocol	TWAIN, WIA (Windows XP/Vista/7), STI
Interface	USB 2.0 (Full-Speed/Hi-Speed compatible interface)
Drop out colour	No
Supported operating systems	Windows 2000/XP/Vista/7
Void area	Max. 2.5 mm (1/10") (leading and trailing edges) Max. 3.0 mm (3/25") (along other edges in total)
Interface cables	[USB cable] Shielded twisted pair cable (max. length 3 m (10 feet), must support USB 2.0) Please purchase a commercially available USB cable.
Scanner utilities	Button Manager



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- Some discrepancies may exist in the illustrations and content due to improvements to the machine.

PRINTER DRIVER SPECIFICATIONS

Function			PCL6	PS	Windows PPD	Macintosh PPD
Frequently used functions	Number of copies		1 to 999	1 to 999	1 to 999	1 to 999
	Printing orientation		Yes	Yes	Yes	Yes
	N-up	Number	2, 4, 6, 8, 9, 16	2, 4, 6, 8, 9, 16	2, 4, 6, 9, 16	2, 4, 6, 9, 16
		Order	Selectable	Selectable	Fixed	Selectable
		Border	Yes/No	Yes/No	Yes/No	Selectable
	Two-sided printing*1		Yes	Yes	Yes	Yes
	Binding Style*1		Book/Tablet	Book/Tablet	Long Side / Short Side	Long Side / Short Side
	Pamphlet Style*1		Yes	Yes	Yes	No
Source Selection	Paper size		Yes	Yes	Yes	Yes
	Custom Paper Size		Yes	Yes	Yes	Yes
	Source Selection		Yes	Yes	Yes	Yes
	Output tray settings		Yes	Yes	Yes	Yes
	Cover Settings		Yes	Yes	No	Yes
Graphics	Resolution		600/300dpi	600dpi	600dpi	600dpi
	Halftone		No	Yes	No	No
	Graphics Mode		Yes	No	No	No
	Zoom		No	Yes	Yes	Yes
	Mirror Image		No	Yes	Yes	Yes
	Negative Image		No	Yes	Yes	Yes
	Fit To Page		Yes	Yes	No	Yes*2
Fonts	Resident fonts		80 fonts	136 fonts	136 fonts	136 fonts
	Selectable download fonts		bitmap, TrueType, Graphics	bitmap, Type1, TrueType	bitmap, Type1, TrueType	No*3
Other functions	Automatic configuration settings		Yes	Yes	No	Yes*4
	ROPM		Yes	Yes	Yes	Yes
	Overlay		Yes	Yes	No	No
	Job Control		Yes	Yes	No	Yes
	Watermark		Yes	Yes	Yes	Yes
	Job Compression		No	Yes	No	No
	Bitmap Compression		No	Yes	No	No

*1Only for models that support two-sided printing.

*2Only Mac OS X v10.4.11 and v10.5 to 10.6.4 can be used.

*3Type 1 and TrueType can be selected in some versions of LaserWriter.

*4Cannot be used in Mac OS X v10.2.8.

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