

SP C250dN/SP C252dN

Operating Instructions

For safe and correct use, be sure to read "Safety Information" before using the machine.

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How to Read This Manual

Introduction

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

Legal Prohibition

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

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

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

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

Disclaimer

Contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

To the maximum extent permitted by applicable laws, in no event will the manufacturer be liable for any damages whatsoever arising out of failures of this machine, losses of the registered data, or the use or non-use of this product and operation manuals provided with it.

Make sure that you always copy or have backups of the data registered in this machine. Documents or data might be erased due to your operational errors or malfunctions of the machine.

In no event will the manufacturer be responsible for any documents created by you using this machine or any results from the data executed by you.

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

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

Two kinds of size notation are employed in this manual.

Some illustrations or explanations in this guide may differ from your product due to improvement or change in the product.

Differences in Functions between Different Models

The differences in main functions between different models are as follows:

	SP C250DN	SP C252DN
Туре	Type 1	Туре 2
Restrictions on available functions	Not available	Available
User Restriction	Not available	Available
Locked Print	Not available	Available
Notification to replace a component	Not available	Available
(Fusing unit, Transfer roller, Intermediate transfer belt)		

Note to Administrator

Password

Certain configurations of this machine can be password-protected to prevent unauthorized modifications by others. We strongly recommend you to create your own password immediately.

The following are the operations that can be password-protected:

 Configuring the [System Settings], [Restrict Available Functions], [Network Settings], [IPsec Settings], or [Administrator Tools] menu using Web Image Monitor

By default, the access to the machine via Web Image Monitor is not password-protected.

The setting for configuring the password can be found in [Administrator Settings].

Vote

• For details about setting a password, see page 126 "Configuring the Administrator Settings".

User Restriction

You can restrict the use of certain functions of this machine to users with proper authentication.

Using Web Image Monitor, you can select the functions you want to restrict, and register the users who can use that function upon authentication.

🕹 Note

• For details about creating passwords and configuring the user restriction settings, see page 37 "Restricting Machine Functions According to User".

About IP Address

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

List of Option

Option List	Referred to as
Paper Feed Unit TK1010	Paper feed unit

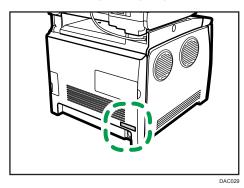
Note

• If Paper feed unit is attached, "Tray 2" appears on the machine's control panel.

Model-Specific Information

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

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



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

(mainly Europe and Asia)

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

- CODE XXXX -27
- 220-240V

Region B (mainly North America)

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

- CODE XXXX -17
- 120-127V
- Vote
 - Dimensions in this manual are given in two units of measure: metric and inch. If your machine is a Region A model, refer to the metric units. If your machine is a Region B model, refer to the inch units.

Important Safety Instructions Important Safety Instructions

User Information on Electrical & Electronic Equipment

Users in the countries where this symbol shown in this section has been specified in national law on collection and treatment of E-waste

Our Products contain high quality components and are designed to facilitate recycling.

Our products or product packaging are marked with the symbol below.



The symbol indicates that the product must not be treated as municipal waste. It must be disposed of separately via the appropriate return and collection systems available. By following these instructions you ensure that this product is treated correctly and help to reduce potential impacts on the environment and human health, which could otherwise result from inappropriate handling. Recycling of products helps to conserve natural resources and protect the environment.

For more detailed information on collection and recycling systems for this product, please contact the shop where you purchased it, your local dealer or sales/service representatives.

All Other Users

If you wish to discard this product, please contact your local authorities, the shop where you bought this product, your local dealer or sales/service representatives.

Environmental Advice for Users

Users in the EU, Switzerland and Norway

Consumables yield

Please refer to either the User's Manual for this information or the packaging of the consumable.

Recycled paper

The machine can use recycled paper which is produced in accordance with European standard EN 12281:2002 or DIN 19309. For products using EP printing technology, the machine can print

on 64g/m² paper, which contains less raw materials and represents a significant resource reduction.

Duplex printing (if applicable)

Duplex printing enables both sides of a sheet of paper to be used. This saves paper and reduces the size of printed documents so that fewer sheets are used. We recommend that this feature is enabled whenever you print.

Toner and ink cartridge return program

Toner and ink cartridge for recycling will be accepted free of charge from users in accordance with local regulations.

For details about the return program, please refer to the Web page below or consult your service person.

https://www.ricoh-return.com/

Energy efficiency

The amount of electricity a machine consumes depends as much on its specifications as it does on the way you use it. The machine is designed to allow you to reduce electricity costs by switching to Ready mode after it prints the last page. If required, it can immediately print again from this mode.

If no additional prints are required and a specified period of time passes, the device switches to an energy saving mode.

In these modes, the machine consumes less power (watts). If the machine is to print again, it needs a little longer to return from an energy saving mode than from Ready mode.

For maximum energy savings, we recommend that the default setting for power management is used.

Products that comply with the Energy Star requirement are always energy efficient.

Note for the Battery and/or Accumulator Symbol (For EU countries only)



In accordance with the Battery Directive 2006/66/EC Article 20 Information for end-users Annex II, the above symbol is printed on batteries and accumulators.

This symbol means that in the European Union, used batteries and accumulators should be disposed of separately from your household waste.

In the EU, there are separate collection systems for not only used electrical and electronic products but also batteries and accumulators.

Please dispose of them correctly at your local community waste collection/recycling centre.

Important Safety Instructions (Region B

Notes to Users in the State of California

Perchlorate Material - special handling may apply. See: www.dtsc.ca.gov/hazardouswaste/ perchlorate

ENERGY STAR Program

ENERGY STAR[®] Program Requirements for Imaging Equipment



The ENERGY STAR[®] Program Requirements for Imaging Equipment encourage energy conservation by promoting energy efficient computers and other office equipment.

The program backs the development and dissemination of products that feature energy saving functions.

It is an open program in which manufacturers participate voluntarily.

Targeted products are computers, monitors, printers, facsimiles, copiers, scanners, and multifunction devices. Energy Star standards and logos are internationally uniform.

Saving Energy

This machine is equipped with the following Energy Saver modes: Energy Saver mode 1 and Energy Saver mode 2. If the machine has been idle for a certain period of time, the machine automatically enters Energy Saver mode.

The machine recovers from Energy Saver mode when it receives a print job or when any key is pressed.

Energy Saver mode 1

The machine enters Energy Saver mode 1 if the machine has been idle for about 30 seconds. It takes less time to recover from Energy Saver mode 1 than from power-off state or Energy Saver mode 2, but power consumption is higher in Energy Saver mode 1 than in Energy Saver mode 2.

Energy Saver mode 2

The machine enters Energy Saver mode 2 after the period of time specified for this setting is passed. Power consumption is lower in Energy Saver mode 2 than in Energy Saver mode 1, but it takes longer to recover from Energy Saver mode 2 than from Energy Saver mode 1.

Specifications

Energy Saver mode 1	Power Consumption ^{* 1}	80 W or less
	Default Time	30 seconds
	Recovery Time ^{* 1}	10 seconds or less
Energy Saver mode 2	Power Consumption * 1	 Region A (mainly Europe and Asia) 3.8 W or less Region B (mainly North America) 2.7 W or less
	Default Time	1 minute
	Recovery Time ^{* 1}	30 seconds
Duplex Function ^{*2}	Standard	

- *1 Recovery time and power consumption may differ depending on the conditions and environment of the machine.
- *2 Achieves ENERGY STAR energy savings; product fully qualifies when packaged with (or used with) a duplex tray and the duplex function is enabled as an option.

For details about Energy Saver modes, see page 89 "System Menu".

Note

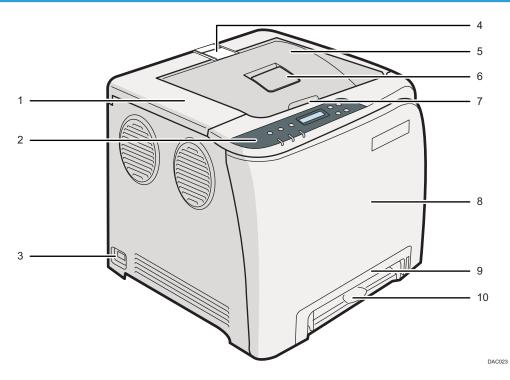
• If the machine is in Energy Saver mode for 24 hours continuously, the machine automatically returns to normal state and performs self-maintenance.

1. Getting Started

Guide to Components

This section introduces the names of the various parts on the front and rear side of the machine and outlines their functions.

Exterior: Front View



1. Top Cover

Open this cover to replace the print cartridge.

2. Control Panel

Contains keys for machine control and indicators that show the machine status.

3. Power Switch

Use this switch to turn the power on and off.

4. Stop Fences

Pull up this fence to prevent paper falling off when printing a large amount of paper at a time. The fence can be adjusted at the A4/Letter or Legal size position.

5. Standard Tray

Delivered sheets are stacked here with the print side down.

6. Standard Tray Extension

Use this to support sheets that come out curled after they are printed. Flip open the extension by pushing down on the end that is toward the rear of the machine.

7. Top Cover Open Lever

Open here to replace the print cartridges.

8. Front Cover

Open this cover to replace the waste toner bottle or remove jammed paper.

9. Tray 1

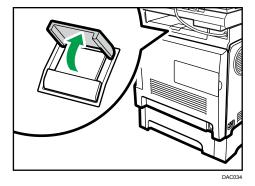
This tray can hold up to 250 sheets of plain paper.

10. Bypass Tray

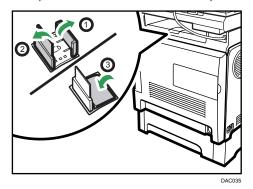
Load paper here sheet by sheet.

• Note

• Pull up the retainer as shown below to prevent A4- or Letter-size prints from falling off.

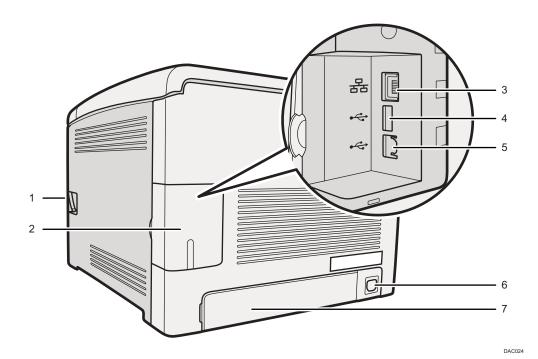


• Pull up the retainer as shown below to prevent Legal-size prints from falling off.



1

Exterior: Rear View



1. Front Cover Open Lever

To open the front cover, pull this lever on the right side of the machine.

2. Cable Cover

Remove this cover when connecting cables to the machine.

3. Ethernet Port

For connecting the machine to the network using a network interface cable.

4. USB Host Interface

Use a USB cable to connect the digital camera to the machine. You can print images directly from a digital camera, without having to connect to a computer.

5. USB Port

For connecting the machine to a computer using a USB cable.

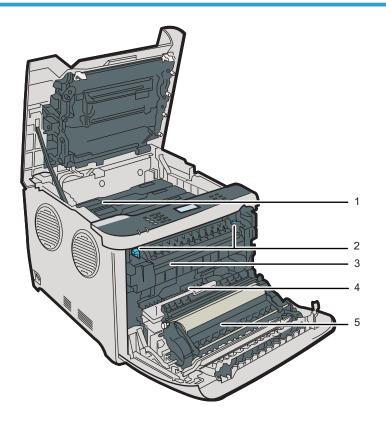
6. Power Socket

For connecting the power cord to the machine.

7. Rear Cover

Remove this cover when loading paper longer than A4 in Tray 1.

Interior



1. Print Cartridges

Install the print cartridges from the machine rear, in the order of cyan (C), magenta (M), yellow (Y), and black (K). Messages appear on the screen when print cartridges need to be replaced, or new ones need to be prepared.

DAC027

2. Fusing Unit Lever

Lower both the left and right levers when you print on an envelope.

3. Fusing Unit

Fuses toner to the paper.

You might have to move this unit to check for or remove jammed paper.

4. Waste Toner Bottle

Collects toner that is wasted during printing.

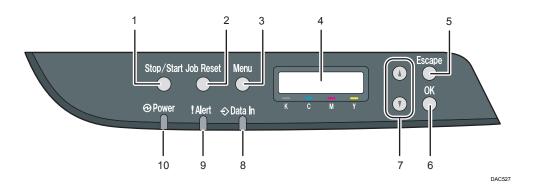
5. Transfer unit

You need to remove this when you replace the waste toner bottle.

Note

 For details about the messages that appear on the screen when consumables need to be replaced, see page 172 "Error & Status Messages on the Control Panel".

Control Panel



1. [Stop/Start] key

Press this key to stop receiving incoming data from the computer.

2. [Job Reset] key

Press this key to cancel a job that is currently being printed or received.

3. [Menu] key

Press this key to configure or check the machine settings. Press the [Menu] key again to return to the initial screen.

4. Display

Displays the current status and messages.

5. [Escape] key

Press this key to cancel an operation or to return to the previous screen.

6. [OK] key

Press this key to confirm settings and setting values, or move to the next menu level.

7. Scroll Keys

Press to scroll the screen or to adjust values.

8. Data In Indicator

Flashes when the machine is receiving data from a computer. The data indicator is lit if there is data to be printed.

9. Alert Indicator

Lights up in red whenever an error occurs. Check the displayed error message. Flashes in yellow when the toner has nearly run out.

10. Power Indicator

Remains lit while the power is on. It is unlit when the power is off.

Vote

• The color of the control panel varies depending on the model.

Installing the Machine

Where to Put the Machine

Be careful about where to place the machine, because environmental conditions greatly affect its performance.

WARNING

- Do not use flammable sprays or solvents in the vicinity of this machine. Doing so could result in fire or electric shock.
- Do not place vases, plant pots, cups, toiletries, medicines, small metal objects, or containers holding water or any other liquids, on or close to this machine. Fire or electric shock could result from spillage or if such objects or substances fall inside this machine.

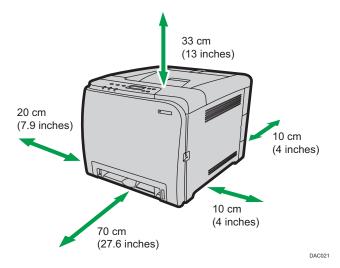
- Keep the machine away from humidity and dust. Otherwise a fire or an electric shock might occur.
- Do not place the machine on an unstable or tilted surface. If it topples over, an injury might occur.
- Do not place heavy objects on the machine. Doing so can cause the machine to topple over, possibly resulting in injury.
- Keep the machine in an area that is within optimum environmental conditions. Operating the
 machine in an environment that is outside the recommended ranges of humidity and temperature
 can cause an electrical fire hazard. Keep the area around the socket free of dust. Accumulated
 dust can become an electrical fire hazard.
- Make sure the room where you are using the machine is well ventilated and spacious. Good ventilation is especially important when the machine is used heavily.
- Do not obstruct the machine's vents. Doing so risks fire caused by overheated internal components.

🔁 Important

Keep the machine away from salt-bearing air and corrosive gases. Also, do not install the machine
in places where chemical reactions are likely (laboratories, etc.), as doing so will cause the
machine to malfunction.

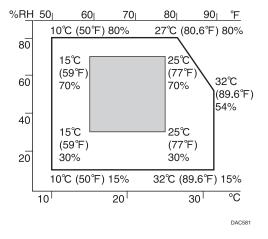
Space Required for Installation

The recommended (or minimum) space requirements are as follows:



Optimum Environmental Conditions

Permissible and recommended temperature and humidity ranges are as follows:



- White area: Permissible Range
- Gray area: Recommended Range

To avoid possible build-up of ozone, locate this machine in large well ventilated room that has an air turnover of more than $30m^3/hr/person$.

Environments to Avoid

🔁 Important

- Areas exposed to direct sunlight or strong light
- Dusty areas

- Areas with corrosive gases
- Areas that are excessively cold, hot, or humid
- · Areas directly exposed to currents of hot, cold, or room-temperature air from air conditioners
- Areas directly exposed to radiant heat from heaters
- Locations near air conditioners or humidifiers
- Locations near other electronic equipment
- Locations subject to frequent strong vibration

Ventilation

When you use this machine in a confined space without good ventilation for a long time or print large quantities, you might detect an odd smell.

This might cause the output paper to also have an odd smell.

When you detect an odd smell, regularly ventilate in order to keep the workplace comfortable.

- Set up the machine so that it does not directly ventilate towards people.
- Ventilation should be more than 30 m³/hr/person.

New machine smell

When a machine is new, it might have a unique smell. This smell will subside in about one week.

When you detect an odd smell, sufficiently ventilate and circulate the air in the room.

Power requirements

- (mainly Europe and Asia) 220 240 V, 6 A, 50/60 Hz

Please be sure to connect the power cord to a power source as above.

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Installing Option

This section explains how to install options.

Attaching Paper Feed Unit

WARNING

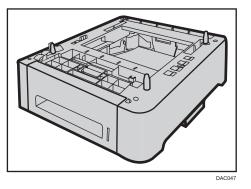
- Touching the prongs of the power cable's plug with anything metallic constitutes a fire and electric shock hazard.
- It is dangerous to handle the power cord plug with wet hands. Doing so could result in electric shock.

- Before installing or removing options, always disconnect the power cord plugs from the wall outlet and allow time for the main unit to fully cool. Failing to take these precautions could result in burns.
- The machine weighs approximately 23.8 kg (52.5 lb.). When moving the machine, use the inset grips on both sides, and lift slowly in pairs. The machine will break or cause injury if dropped.
- Lifting the paper feed unit carelessly or dropping may cause injury.
- Before moving the machine, unplug the power cord from the wall outlet. If the cord is unplugged abruptly, it could become damaged. Damaged plugs or cords can cause an electrical or fire hazard.

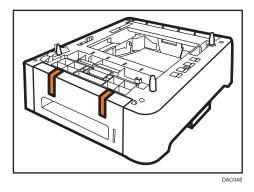
🔁 Important

- Tray 1 is required to print using the optional paper feed unit. Without Tray 1, paper jams will occur.
- The machine must be lifted by two people.
- Do not hold the tray to lift the machine.

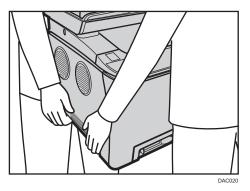
1. Check that the package contains the paper feed unit.



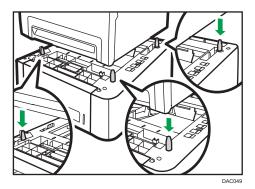
- 2. Turn off the machine's power switch, and then unplug the machine's power cord from the wall outlet.
- 3. Remove adhesive tapes from the optional paper feed unit.



4. Lift the machine using the inset grips on both sides of the machine.



5. There are three upright pins on the optional paper feed unit. Align them with the holes on the underside of the machine, and then carefully lower the machine.



6. After installing the optional paper feed unit, print the configuration page to check the device configuration.

If it is installed properly, "Tray 2" will appear under "Paper Input" on the configuration page.

Vote

- After installing the optional paper feed unit, select Tray 2 in the printer driver. For details, see the printer driver Help.
- If the new device is listed in the column of configuration options, it has been properly installed.
- If the optional paper feed unit is not installed properly, try to install it again by repeating the procedure. If the problem persists, contact your sales or service representative.
- For details about printing the configuration page, see page 86 "List/Test Print Menu".

About Operation Tools

This section explains the operation tools of this machine.

Control Panel

The control panel contains a screen and keys for controlling the machine. Using the control panel, you can configure the machine's various settings. For details about how to use the control panel, see page 81 "Configuring the Machine Using the Control Panel".

Web Image Monitor

You can check the machine's status and configure its settings by accessing the machine via Web Image Monitor. For details about how to use Web Image Monitor, see page 101 "Configuring the Machine Using Web Image Monitor".

1

Configuring Network Settings

This section describes configuring the settings required to use the machine on a network.

Configuring the IP Address Settings

The procedure for configuring network settings differs depending on whether the IP address is assigned automatically by the network (DHCP), or is specified manually.

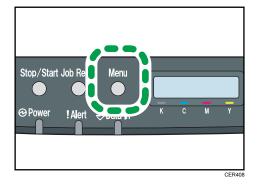
Vote

- You can press the [Escape] key to exit to the previous level of the menu tree.
- If your network environment requires a specific transmission speed that is not automatically detected, specify the transmission speed in [Ethernet Speed] under [Network Setting].
- Configure the IP address setting first, then install the driver. For details about installing the driver, see the Driver Installation Guide.
- For details about printing the configuration page, see page 86 "List/Test Print Menu".

Specifying settings to receive an IPv4 address automatically

Coloritant 🔂

- A DHCP server is required on the network for the machine to receive an IPv4 address automatically.
- 1. Turn on the machine.
- 2. Press the [Menu] key.



- 3. Press the [▲] or [▼] key to select [Host Interface], and then press the [OK] key.
- 4. Press the [▲] or [▼] key to select [Network Setting], and then press the [OK] key.
- 5. Press the [▲] or [♥] key to select [IPv4 Config.], and then press the [OK] key.
- 6. Press the [▲] or [▼] key to select [DHCP], and then press the [OK] key.

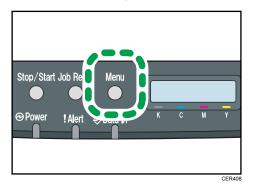
- 7. Press the [▲] or [▼] key to select [Active], and then press the [OK] key.
- 8. Press the [Menu] key to return to the initial screen.
- 9. If you are requested to restart the machine, turn off the machine, and then turn it back on.
- 10. Print the configuration page to check the setting.

The IPv4 address setting will appear under "TCP/IP" on the configuration page.

Assigning the machine's IPv4 address manually

🔁 Important

- The IPv4 address assigned to the machine must not be used by any other device on the same network.
- 1. Turn on the machine.
- 2. Press the [Menu] key.



- 3. Press the [▲] or [▼] key to select [Host Interface], and then press the [OK] key.
- 4. Press the [▲] or [▼] key to select [Network Setting], and then press the [OK] key.
- 5. Press the [▲] or [▼] key to select [IPv4 Config.], and then press the [OK] key.
- 6. Press the [▲] or [▼] key to select [DHCP], and then press the [OK] key.
- 7. Press the [▲] or [▼] key to select [Inactive], and then press the [OK] key.
- Press the [▲] or [▼] key to select [IP Address], and then press the [OK] key. The current IPv4 address is shown.
- 9. Enter the machine's IPv4 address using the [▲] or [▼] key.
 - To go to the next field, press the [OK] key.
 - To go back to the previous field, press the [Escape] key.
- 10. Press the [OK] key.
- Press the [▲] or [▼] key to select [Subnet Mask], and then press the [OK] key. The current subnet mask is shown.

- 12. Enter the subnet mask using the [▲] or [▼] key.
 - To go to the next field, press the [OK] key.
 - To go back to the previous field, press the [Escape] key.
- 13. Press the [OK] key.
- 14. Press the [▲] or [▼] key to select [Gateway Address], and then press the [OK] key. The current gateway address is shown.
- 15. Enter the gateway address using the [▲] or [▼] key.
 - To go to the next field, press the [OK] key.
 - To go back to the previous field, press the [Escape] key.
- 16. Press the [OK] key.
- 17. Press the [Menu] key to return to the initial screen.
- 18. If you are requested to restart the machine, turn off the machine, and then turn it back on.
- 19. Print the configuration page to check the setting.

The IPv4 address setting will appear under "TCP/IP" on the configuration page.

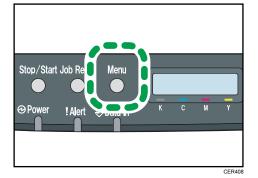
Vote

• If [DHCP] is enabled, manually configured IPv4 address settings are not used.

Specifying settings to receive an IPv6 address automatically

🔁 Important

- DHCP server is required on the network for the machine to receive an IPv6 address automatically.
- 1. Turn on the machine.
- 2. Press the [Menu] key.



- 3. Press the [▲] or [▼] key to select [Host Interface], and then press the [OK] key.
- 4. Press the [▲] or [▼] key to select [Network Setting], and then press the [OK] key.
- 5. Press the [▲] or [▼] key to select [IPv6 Config.], and then press the [OK] key.

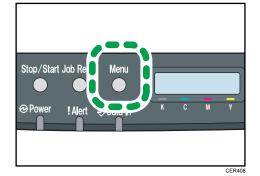
- 6. Press the [▲] or [♥] key to select [IPv6], and then press the [OK] key.
- 7. Press the [▲] or [▼] key to select [Active], and then press the [OK] key.
- 8. Press the [▲] or [▼] key to select [DHCP], and then press the [OK] key.
- 9. Press the [▲] or [▼] key to select [Active], and then press the [OK] key.
- 10. Press the [Menu] key to return to the initial screen.
- 11. If you are requested to restart the machine, turn off the machine, and then turn it back on.
- 12. Print the configuration page to check the setting.

The IPv6 address setting will appear under "IPv6 Configuration" on the configuration page.

Assigning the machine's IPv6 address manually

Comportant 🔁

- The IPv6 address assigned to the machine must not be used by any other device on the same network.
- 1. Turn on the machine.
- 2. Press the [Menu] key.



- 3. Press the [▲] or [▼] key to select [Host Interface], and then press the [OK] key.
- 4. Press the [▲] or [▼] key to select [Network Setting], and then press the [OK] key.
- 5. Press the [▲] or [▼] key to select [IPv6 Config.], and then press the [OK] key.
- 6. Press the [▲] or [♥] key to select [IPv6], and then press the [OK] key.
- 7. Press the [▲] or [▼] key to select [Active], and then press the [OK] key.
- 8. Press the [▲] or [▼] key to select [DHCP], and then press the [OK] key.
- 9. Press the [▲] or [▼] key to select [Inactive], and then press the [OK] key.
- 10. Press the [▲] or [▼] key to select [Manual Address], and then press the [OK] key.
- 11. Press the [♥] or [▲] key to select [Manual Address], and then press the [OK] key.

- 12. Enter the machine's IPv6 address using the [▲] or [▼] key.
 - To go to the next field, press the [OK] key.
 - To go back to the previous field, press the [Escape] key.
- 13. Press the [OK] key.
- 14. Press the [▲] or [▼] key to select [Prefix Length], and then press the [OK] key.
- 15. Enter the prefix length using the [▲] or [▼] key, and then press the [OK] key.
- 16. Press the [▲] or [▼] key to select [Gateway Address], and then press the [OK] key.
- 17. Enter the gateway address using the [▲] or [▼] key.
 - To go to the next field, press the [OK] key.
 - To go back to the previous field, press the [Escape] key.
- 18. Press the [OK] key.
- 19. Press the [Menu] key to return to the initial screen.
- 20. If you are requested to reboot the machine, turn off the machine, and then turn it back on.
- 21. Print the configuration page to check the setting.

The IPv6 address setting will appear under "IPv6 Configuration" on the configuration page.

Sharing the Printer on a Network

This section explains how to configure this machine as a Windows network printer.

The network printer setting can be configured to enable network clients to use the machine.

- To change printer properties, you need access privileges for printer management. Log on using the account for the Administrator group members.
- The following procedure is based on Windows 7. If you are using another operating system, the procedure might differ slightly.
- 1. On the [Start] menu, click [Devices and Printers].

If you are using a computer that is running Windows 8 or Windows Server 2012, click [Search] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [View devices and printers].

2. Right-click the icon of the printer you want to use, and then click [Printer properties].

The printer properties dialog box appears.

- 3. On the [Sharing] tab, click [Share this printer].
 - To share this printer with users using a different version of Windows, continue with this procedure.
 - If you have installed an alternative driver by selecting [Share this printer] during the printer driver installation, proceed to Step 8.

- 4. Click [Additional Drivers...].
- Select the version of Windows with which you want to share the printer, and then click [OK].
- 6. Click [Browse...], select the driver file, and then click [Open].
- 7. Click [OK].
- 8. On the [Advanced] tab, click the [Printing Defaults...] button.

Specify the default values for the printer driver to be used by client computers, and then click [OK].

- 9. Click [Apply].
- 10. Click [OK].

Wireless LAN Setup

This section explains how to configure the wireless LAN settings manually using the control panel. For easy setup using WPS (Wi-Fi Protected Setup), see Wi-Fi Settings Guide.

🚼 Important

- If [Inactive] is specified for the [Wi-Fi] setting, you cannot use the [Setup Wizard]. Specify [Active] for the [Wi-Fi] setting first. If you change the [Wi-Fi] setting, the machine must be restarted.
- Ensure that the router, access point, or device equipped with a wireless LAN, etc., is turned on.
- Check the authentication method and the name of the router, access point, or device equipped with a wireless LAN (SSID/IBSS) in advance.
- First, configure the wireless LAN setting, and then install the driver. For details about installing the driver, see the Driver Installation Guide.

Infrastructure mode

Use the following procedure to connect to the wireless LAN router or access point manually.

- 1. Turn on the machine.
- 2. Press the [Menu] key.
- 3. Press the [▲] or [▼] key to select [Host Interface], and then press the [OK] key.
- 4. Press the [▲] or [▼] key to select [Network Setting], and then press the [OK] key.
- 5. Press the [▲] or [♥] key to select [Wi-Fi Config.], and then press the [OK] key.
- 6. Press the [▲] or [▼] key to select [Setup Wizard], and then press the [OK] key.
- 7. Press the [▲] or [▼] key to select [Infrastructure], and then press the [OK] key.
- Press the [▲] or [▼] key to select the destination SSID, and then press the [OK] key.
 If you cannot find the destination SSID, check if the device is turned on.

When entering the SSID, select [Input SSID], and then press the [OK] key.

The SSID entry screen appears. Enter the SSID using the [▲] or [▼] key, and then press the [OK] key.

- To move to the next character, press the [OK] key.
- To return to the previous character, press the [Escape] key.
- 9. Press the [▲] or [♥] key to select the authentication method, and then press the [OK] key.

Select the same method that the router or access point is using.

If you have selected [WPA2-PSK] or [Mixed Mode], proceed to Step 11.

10. Press the [▲] or [▼] key to select the encryption method, and then press the [OK] key.

Select the same method that the router or access point is using.

- 11. Enter the encryption key, and then press the [OK] key.
 - To move to the next character, press the [OK] key.
 - To return to the previous character, press the [Escape] key.

If you selected [Shared Key] or [Open System] in Step 9, it is necessary to enter the ID. Enter the ID using the [▲] or [▼] key, and then press the [OK] key.

The ID is used for identifying the encryption key. You can register four encryption keys (ID 1 to 4).

12. Press the [OK] key.

After connecting to the network, the Wi-Fi screen is displayed.

13. Press the [▲] or [▼] key to select [Wi-Fi Status], and then press the [OK] key.

When "Connected" is displayed, the connection has been established.

When "Disconnected" is displayed, the connection has not been established. Start again from the beginning.

Ad Hoc mode

This section explains how to connect directly to devices equipped with a wireless LAN, such computers on a peer-to-peer network.

🔁 Important

- In Ad Hoc network, every device must be manually assigned an IP address for TCP/IP if there is no DHCP server.
- In Ad Hoc mode, only Open System or WEP encryption is supported. WPA2-PSK and Mix Mode WPA2/WPA authentication methods are not supported.
- 1. Turn on the machine.
- 2. Press the [Menu] key.
- 3. Press the [▲] or [▼] key to select [Host Interface], and then press the [OK] key.

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- 4. Press the [▲] or [▼] key to select [Network Setting], and then press the [OK] key.
- 5. Press the [▲] or [▼] key to select [Wi-Fi Config.], and then press the [OK] key.
- 6. Press the [▲] or [▼] key to select [Setup Wizard], and then press the [OK] key.
- 7. Press the [▲] or [▼] key to select [Ad-Hoc], and then press the [OK] key.
- Press the [▲] or [▼] key to select a communication channel, and then press the [OK] key.
 Select a channel that corresponds to the device that you are going to connect with.
- Press the [▲] or [▼] key to select the destination device name (IBSS), and then press the [OK] key.

If you cannot find the destination, check that the device is turned on.

When entering the device name, select [Input SSID], and then press the [OK] key. The SSID entry screen appears. Enter the device name using the [▲] or [▼] key, and then press the [OK] key.

- To move to the next character, press the [OK] key.
- To return to the previous character, press the [Escape] key.
- 10. Press the [▲] or [♥] key to select the authentication method, and then press the [OK] key.
- 11. Press the [▲] or [▼] key to select the encryption method, and then press the [OK] key.
- 12. Enter the encryption key using the [▲] or [♥] key, and then press the [OK] key.
 - To move to the next character, press the [OK] key.
 - To return to the previous character, press the [Escape] key.
- 13. Enter the ID using the [▲] or [▼] key, and then press the [OK] key.

The ID is used for identifying the encryption key. You can register four encryption keys (ID 1 to 4).

14. Press the [OK] key.

After connecting to the network, the Wi-Fi screen is displayed.

15. Press the [▲] or [♥] key to select [Wi-Fi Status], and then press the [OK] key.

When "Connected" is displayed, the connection has been established.

When "Disconnected" is displayed, the connection has not been established. Start again from the beginning.

Restricting Machine Functions According to User

You can configure settings to require a user code when someone tries to use certain machine functions.

To enable this setting, you must first configure the machine settings via Web Image Monitor.

🔁 Important

- This function is available for the Type 2 model only.
- To print jobs that require authentication you can use only the PCL printer driver. Printing such jobs from the PostScript 3 printer driver is not possible.

Note

• For details about using Web Image Monitor, see page 101 "Using Web Image Monitor".

Enabling the User Restriction Settings

This section explains how to configure settings to permit only authorized users to use certain machine functions.

Using Web Image Monitor, enable user restriction for all or some of the functions listed below, and then register users who can use those functions.

- PictBridge printing
- Printing (both color and black-and-white)
- Color printing

You can specify functions available to each user upon authentication. Up to 30 users can be registered.

- 1. Start the Web browser, and access the machine by entering its IP address.
- 2. Click [Restrict Available Functions].
- 3. Enter the administrator password if required.
- 4. Click [Apply].

 Under "Available Functions", select [Restrict] for the functions you want to restrict, and then click [Apply].

Available Fu	inction	s Availat	ble Functions per	Us
PictBridge	: 🔘	Restrict	O not Res	stri
Printing	: 🔘	Restrict	O not Res	stri
Color Printing	: 0	Restrict	O not Res	stri

Select [Do not Restrict] for the functions you do not want to restrict.

The user restriction setting is enabled for the selected function. Proceed to the following steps to register users.

6. Click [Available Functions per User].

A list of currently registered user entries appears.

Res	trict Av	ailable Functions			🖉 Refresh 🛛 Logou
Ara	ilable Fun	tions Available Function	ns per User		
20	hanga 📶	Delete User Name			
	No. 01	User Name	PictBridge	Printing	Color Printing
0	02				
	03				
0	04				
	05				
0	05				
	07				
0	03				
	09				
0	10				

7. Select a user entry, and then click [Change].

The following window appears.



- 8. Enter the user name in [User Name] using up to 16 alphanumeric characters.
- 9. Enter the user code in [User Code] using up to 8 digits.

The user code will be used to authenticate users when they try to use a restricted function.

- **10.** Select the functions you want to make available to the user upon authentication. Unselected functions will be unavailable to users authenticated under this user code.
- 11. Click [Apply].

12. Close the Web browser.

Vote

- You must enter both the user name and user code to register a user entry.
- Make sure that different user entries do not share the same user name or user code.

Modifying user entries

This section explains how to modify user entries.

- 1. Start the Web browser, and access the machine by entering its IP address.
- 2. Click [Restrict Available Functions].
- 3. Enter the administrator password if required.
- 4. Click [Apply].
- 5. Click [Available Functions per User].

A list of currently registered user entries appears.

- 6. Select the entry to modify, and then click [Change].
- 7. Modify settings as necessary.
- 8. Click [Apply].
- 9. Close the Web browser.

Deleting user entries

This section explains how to delete user entries.

- 1. Start the Web browser, and access the machine by entering its IP address.
- 2. Click [Restrict Available Functions].
- 3. Enter the administrator password if required.
- 4. Click [Apply].
- 5. Click [Available Functions per User].

A list of currently registered user entries appears.

- 6. Select the entry to delete, and then click [Delete].
- Confirm that the entry you have selected is the entry that you want to delete.
- 8. Click [Apply].
- 9. Close the Web browser.

When Machine Functions are Restricted

Restricted functions can be used only by authorized users.

Depending on the restricted function, users will be authenticated from the machine's control panel or in the printer driver.

🔁 Important

- This function is available for the Type 2 model only.
- To print jobs that require authentication you can use only the PCL printer driver. Printing such jobs from the PostScript 3 printer driver is not possible.
- The procedure in this section is an example based on Windows 7.

The table below shows the functions that can be restricted, and how users can be authenticated to use them.

Restricted Function	Authentication method
PictBridge printing	The machine requests for a user code when a digital camera is connected to the machine. The user must enter a valid user code from the control panel.
 Printing (both color and black-and-white) Color printing 	The user must enter a valid user code in the printer driver before executing a print command.

Authentication using the control panel

If the printer requests for a user code, enter a user code using the [▲] or [▼] key.

If you enter a wrong user code, the printer denies further attempts of authentication.

2. Press the [OK] key.

Authentication using the printer driver

- 1. Open the file you want to print on your computer.
- 2. On the [File] menu, click [Print...].
- 3. In the [Select Printer] area, select the name of this machine, and then click [Preferences].
- 4. Click the [Valid Access] tab.
- 5. Enter the user code using 1 to 8 digits, and then click [OK].
- 6. Execute a print command.

If an incorrect user code is entered, the job will be canceled automatically (without any error message).

Supported Paper

Tray 1

Туре	Size	Weight	Capacity
Thin paper	A4	60 to 160 g/m ²	250
Plain paper	B5 JIS	(16 to 43 lb.)	(80 g/m ² , 20 lb.)
Middle thick paper	A5		
Thick paper 1, 2	B6 JIS		
Recycled paper	A6		
Color paper	Legal (8 ¹ / ₂ × 14 inches)		
Preprinted paper	Letter (8 ¹ / ₂ × 11 inches)		
Prepunched paper	Half Letter $(5^1/_2 \times 8^1/_2 \text{ inches})$		
Letterhead	Executive $(7^1/_4 \times 10^1/_2)$		
Bond paper	inches)		
Cardstock	8 × 13 inches		
Label paper	8 ¹ / ₂ × 13 inches		
Envelope	Folio (8 ¹ / ₄ × 13 inches)		
	16K (195 × 267 mm)		
	Com 10 $(4^{1}/_{8} \times 9^{1}/_{2} \text{ inches})$		
	Monarch $(3^7/_8 \times 7^1/_2 \text{ inches})$		
	C5 Env (162 × 229 mm)		
	C6 Env (114 × 162 mm)		
	DL Env (110 × 220 mm)		
	Custom size:		
	90 to 216 mm in width,		
	148 to 356 mm in length		
	(3.54 to 8.50 inches in width,		
	5.83 to 14.0 inches in length)		

Tray 2 (option)

Туре	Size	Weight	Capacity
Thin paper	A4	60 to 105 g/m ²	500
Plain paper	Letter (8 ¹ / ₂ × 11 inches)	(16 to 28 lb.)	(80 g/m², 20 lb.)
Middle thick paper			
Thick paper 1			
Recycled paper			
Color paper			
Preprinted paper			
Prepunched paper			
Letterhead			

Bypass	tray
--------	------

Туре	Size	Weight	Capacity
Thin paper	A4	60 to 160 g/m ²	1
Plain paper	B5 JIS	(16 to 43 lb.)	
Middle thick paper	A5		
Thick paper 1, 2	B6 JIS		
Recycled paper	A6		
Color paper	Legal (8 ¹ / ₂ × 14 inches)		
Prepunched paper	Letter (8 ¹ / ₂ × 11 inches)		
Letterhead	Half Letter $(5^1/_2 \times 8^1/_2 \text{ inches})$		
Bond paper	Executive $(7^1/_4 \times 10^1/_2)$		
Cardstock	inches)		
Label paper	8 × 13		
Envelope	$8^{1}/_{2} \times 13$		
	Folio (8 ¹ / ₄ × 13 inches)		
	16K (195 mm × 267 mm)		
	Com 10 (4 ¹ / ₈ × 9 ¹ / ₂ inches)		
	Monarch $(3^7/_8 \times 7^1/_2 \text{ inches})$		
	C5 Env (162 × 229 mm)		
	C6 Env (114 × 162 mm)		
	DL Env (110 × 220 mm)		
	Custom size:		
	90 to 216 mm in width,		
	148 to 356 mm in length		
	(3.54 to 8.50 inches in width,		
	5.83 to 14.0 inches in length)		

Vote

- You cannot print on Legal size paper in the following cases:
 - PCL printer driver

When [Gradation:] in [Print Quality] is set to [Fine]

• PostScript 3 printer driver

When [Print Quality] in [Printer Features] is set to [Best Quality]

Specifications of Paper Types

The following tables describe the types of paper that can be used with this machine.

Comportant)

- Depending on the paper type, the toner may take a while to dry. Before handling printed sheets, make sure that they have fully dried. Otherwise, the toner may smudge.
- Print quality can be guaranteed only if recommended paper is used. For more information about the recommended paper, contact your sales or service representative.

Middle thick paper

ltem	Description
Paper thickness	75 to 90 g/m ² (20 to 24 lb.)
Supported paper tray	Can be used with any of the paper trays.
Duplex supported size	A4, B5 JIS, Legal (8 ¹ / ₂ × 14 inches), Letter (8 ¹ / ₂ × 11 inches), Executive (7 ¹ / ₄ × 10 ¹ / ₂ inches), 8 × 13, 8 ¹ / ₂ × 13, Folio (8 ¹ / ₄ × 13 inches), 16K (195 mm × 267 mm)

Thick paper 1

ltem	Description
Paper thickness	91 to 105 g/m ² (24 to 28 lb.)
Supported paper tray	Can be used with any of the paper trays.
Duplex supported size	None
Notes	The number of sheets that can be printed per minute is approximately half that of middle thick paper.

Thick paper 2

ltem	Description
Paper thickness	106 to 160 g/m ² (28 to 43 lb.)
Supported paper tray	Tray 1 and bypass tray
Duplex supported size	None
Notes	The number of sheets that can be printed per minute is approximately half that of middle thick paper.

Thin paper

ltem	Description
Paper thickness	60 to 65g/m2 (16 to 17 lb.)
Supported paper tray	Can be used with any of the paper trays.
Duplex supported size	A4, B5 JIS, Legal (8 ¹ / ₂ × 14 inches), Letter (8 ¹ / ₂ × 11 inches), Executive (7 ¹ / ₄ × 10 ¹ / ₂ inches), 8 × 13, 8 ¹ / ₂ × 13, Folio (8 ¹ / ₄ × 13 inches), 16K (195 mm × 267 mm)

Plain paper

ltem	Description
Paper thickness	66 to 74 g/m2 (18 to 20 lb.)
Supported paper tray	Can be used with any of the paper trays.
Duplex supported size	A4, B5 JIS, Legal (8 ¹ / ₂ × 14 inches), Letter (8 ¹ / ₂ × 11 inches), Executive (7 ¹ / ₄ × 10 ¹ / ₂ inches), 8 × 13, 8 ¹ / ₂ × 13, Folio (8 ¹ / ₄ × 13 inches), 16K (195 mm × 267 mm)

Recycled paper

ltem	Description
Paper thickness	75 to 90 g/m ² (20 to 24 lb.)
Supported paper tray	Can be used with any of the paper trays.
Duplex supported size	A4, B5 JIS, Legal (8 ¹ / ₂ × 14 inches), Letter (8 ¹ / ₂ × 11 inches), Executive (7 ¹ / ₄ × 10 ¹ / ₂ inches), 8 × 13, 8 ¹ / ₂ × 13, Folio (8 ¹ / ₄ × 13 inches), 16K (195 mm × 267 mm)
Notes	If the paper thickness is outside the specified range, select [Thin Paper], [Plain Paper], [Thick Paper 1], or [Thick Paper 2].

Color paper

ltem	Description
Paper thickness	75 to 90 g/m ² (20 to 24 lb.)
Supported paper tray	Can be used with any of the paper trays.

ltem	Description
Duplex supported size	A4, B5 JIS, Legal (8 ¹ / ₂ × 14 inches), Letter (8 ¹ / ₂ × 11 inches), Executive (7 ¹ / ₄ × 10 ¹ / ₂ inches), 8 × 13, 8 ¹ / ₂ × 13, Folio (8 ¹ / ₄ × 13 inches), 16K (195 mm × 267 mm)
Notes	If the paper thickness is outside the specified range, select [Thin Paper], [Plain Paper], [Thick Paper 1], or [Thick Paper 2].

Preprinted paper

ltem	Description
Paper thickness	75 to 90 g/m ² (20 to 24 lb.)
Supported paper tray	Tray 1 and tray 2
Duplex supported size	A4, B5 JIS, Legal $(8^{1}/_{2} \times 14 \text{ inches})$, Letter $(8^{1}/_{2} \times 11 \text{ inches})$, Executive $(7^{1}/_{4} \times 10^{1}/_{2} \text{ inches})$, 8×13 , $8^{1}/_{2} \times 13$ inches, Folio $(8^{1}/_{4} \times 13 \text{ inches})$, 16K (195 mm × 267 mm)
Notes	If the paper thickness is outside the specified range, select [Thin Paper], [Plain Paper], [Thick Paper 1], or [Thick Paper 2].

Prepunched paper

ltem	Description
Paper thickness	75 to 90 g/m ² (20 to 24 lb.)
Supported paper tray	Can be used with any of the paper trays.
Duplex supported size	A4, B5 JIS, Legal (8 ¹ / ₂ × 14 inches), Letter (8 ¹ / ₂ × 11 inches), Executive (7 ¹ / ₄ × 10 ¹ / ₂ inches), 8 × 13, 8 ¹ / ₂ × 13, Folio (8 ¹ / ₄ × 13 inches), 16K (195 mm × 267 mm)
Notes	If the paper thickness is outside the specified range, select [Thin Paper], [Plain Paper], [Thick Paper 1], or [Thick Paper 2].

Letterhead

ltem	Description
Paper thickness	75 to 90 g/m ² (20 to 24 lb.)
Supported paper tray	Can be used with any of the paper trays.

ltem	Description
Duplex supported size	A4, B5 JIS, Legal (8 ¹ / ₂ × 14 inches), Letter (8 ¹ / ₂ × 11 inches), Executive (7 ¹ / ₄ × 10 ¹ / ₂ inches), 8 × 13, 8 ¹ / ₂ × 13, Folio (8 ¹ / ₄ × 13 inches), 16K (195 mm × 267 mm)
Notes	Paper that has a thickness outside the specified range cannot be printed onto.

Bond paper

ltem	Description
Paper thickness	106 to 160 g/m ² (28 to 43 lb.)
Supported paper tray	Tray 1 and bypass tray
Duplex supported size	None
Notes	 The number of sheets that can be printed in one minute is approximately half that of middle thick paper.
	 If the paper thickness is outside the specified range, select [Thick Paper 1].

Cardstock

ltem	Description
Paper thickness	106 to 160 g/m ² (28 to 43 lb.)
Supported paper tray	Tray 1 and bypass tray
Duplex supported size	None
Notes	 The number of sheets that can be printed in one minute is approximately half that of middle thick paper. Paper thicker than 160 g/m² cannot be printed onto.

Label paper

ltem	Description
Supported paper tray	Tray 1 and bypass tray
Duplex supported size	None

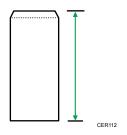
ltem	Description
Notes	 The number of sheets that can be printed per minute is approximately half that of middle thick paper.
	 Avoid using adhesive label paper on which glue is exposed. Glue may stick to the inner parts of the machine, which can cause paper feed problems, deterioration in print quality, or premature wear of the print cartridge's photo conductor unit.

Envelope

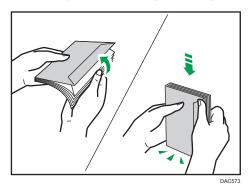
ltem	Description
Supported paper tray	Tray 1 and bypass tray
Duplex supported size	None

Notes

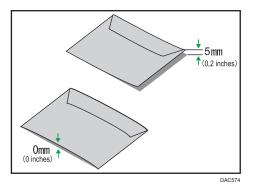
- Avoid using self-adhesive envelopes. They may cause machine malfunctions.
- The number of envelopes that can be printed per minute is approximately half that of middle thick paper.
- Paper can be loaded only up to the lower of the two paper limit marks of the tray.
- If printed envelopes come out badly creased, load the envelopes in the opposite direction. Also, configure the printer driver to rotate the print object 180 degrees. For details about changing the orientation see the printer driver Help.
- Environmental factors can degrade the print quality on both recommended and non-recommended envelopes.
- If envelopes are severely curled after printing, flatten them by bending them back against the curl.
- After printing, envelopes sometimes have creases along their long edges and toner smear on their unprinted sides. Print images might also be blurred. When printing large, black-solid areas, striping can occur as a result of the envelopes overlapping.
- To correctly specify the length of an envelope whose flap opens along its short edge, be sure to include the open flap when measuring.



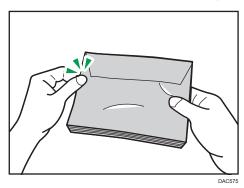
• Fan envelopes, and then align their edges before loading.



- When fanning envelopes, make sure they are not stuck together. If they are stuck together, separate them.
- When fanning envelopes, make sure the envelope flaps are not stuck. If they are stuck, separate them.
- Before loading envelopes, flatten them out so that their curl does not exceed that shown as shown below.



• If the curl is severe, flatten out the envelopes using your fingers, as shown below.



Vote

- You may not be able to perform duplex printing on 8 × 13, 8¹/₂ × 13, Folio (8¹/₄ × 13 inches), or 16K (195 mm × 267 mm) size paper in the following cases:
 - PCL printer driver

When [Gradation:] in [Print Quality] is set to [Fine]

PostScript 3 printer driver

When [Print Quality] in [Printer Features] is set to [Best Quality]

Non-Recommended Paper Types

Do not use the following types of paper:

- Ink-jet printer paper
- Bent, folded, or creased paper
- Curled or twisted paper
- Torn paper
- Wrinkled paper
- Damp paper
- Dirty or damaged paper
- Paper that is dry enough to emit static electricity
- Paper that has already been printed onto, except a preprinted letterhead paper.
 Malfunctions are especially likely when using paper printed on by other than a laser printer (e.g.monochrome and color copiers, ink-jet printers, etc.)
- Special paper, such as thermal paper and carbon paper
- Paper weighing heavier or lighter than the limit
- Paper with windows, holes, perforations, cutouts, or embossing
- Adhesive label paper on which glue or base paper is exposed
- Paper with clips or staples

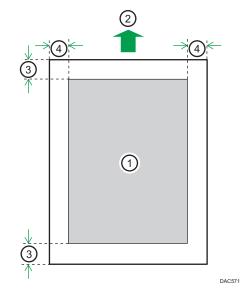
• Note

- When loading paper, take care not to touch the surface of the paper.
- Even if paper is adequate for the machine, poorly stored paper can cause paper misfeeds, print quality degradation, or malfunctions.

Print Area

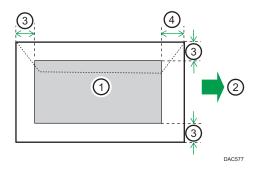
The diagram below shows the area of the paper that the machine can print on.

Paper



- 1. Print area
- 2. Feed direction
- 3. Approx. 4.2 mm (0.2 inches)
- 4. Approx. 4.2 mm (0.2 inches)





- 1. Print area
- 2. Feed direction
- 3. Approximately 10 mm (0.4 inches)
- 4. Approximately 15 mm (0.6 inches)

Vote

- Borderless printing is not supported.
- The print area may vary depending on the paper size, printer language and printer driver settings.
- For better envelope printing, we recommend you set the right, left, top, and bottom print margins to at least 15 mm (0.6 inches) each.

Loading Paper

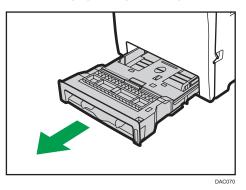
Loading Paper into Tray1 and 2

The following example explains the loading procedure for the standard paper tray (Tray 1).

The same procedure applies to loading paper in Tray 2.

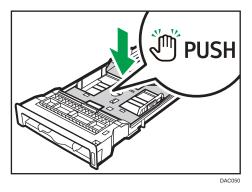
C Important

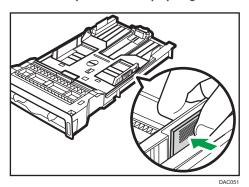
- Before printing on paper other than envelopes, make sure to pull up the levers on the machine rear, inside the rear cover.
- Curled paper may jam. Straighten curled paper before loading.
- After loading paper in the tray, specify the paper type and size using the control panel to avoid printing problems. This machine does not detect the paper size automatically.
- 1. Pull out the paper tray carefully with both hands.



Place the tray on a flat surface.

2. Push the metal plate down until it clicks.

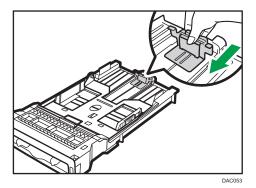




3. Pinch the clip on the side paper guide and slide it to match the paper size.

When loading custom size paper, position the paper guide slightly wider than the actual paper size.

4. Pinch the end paper guide and slide it inward to match the paper size.

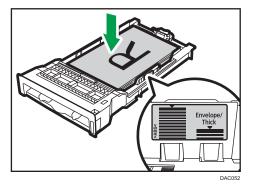


When loading custom size paper, position the paper guide slightly wider than the actual paper size.

5. Load new sheets of paper aligned with their side to be printed face down.

Make sure the paper is not stacked higher than the upper limit marked inside the tray.

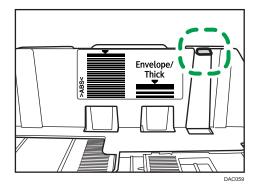
The upper limit mark in Tray 2 differs from the illustrated mark.



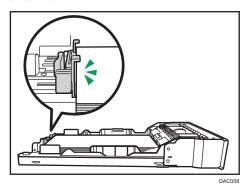
Slide the guides inward until they are flush against the paper's sides.

Make sure the paper is not stacked higher than the projection on the side paper guides.

When using Tray 2, make sure the paper is not stacked higher than the upper limit marked inside the tray.



6. Check there are no gaps between the paper and the paper guides (both side and end paper guides).



7. Carefully push the paper tray straight into the machine.

To avoid paper jams, make sure the tray is securely inserted.

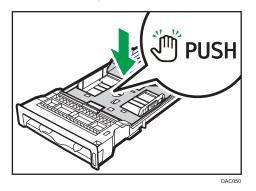
Note

- The upper limit differs depending on the paper type (thin or thick paper). See the label inside the tray to check the upper limit.
- The remaining paper indicator on the right front side of the paper tray shows approximately how much paper is remaining.

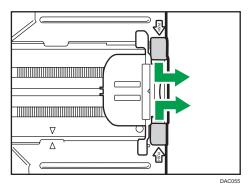
Extending Tray 1 to load paper

This section explains how to load paper longer than A4 (297 mm) into the machine.

- **2.** Pull out Tray 1 carefully with both hands. Place the tray on a flat surface.
- 3. Push the metal plate down until it clicks.

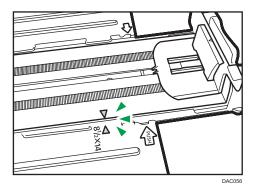


4. Pinch the extender in the "PUSH" direction, and then pull out the extender until it clicks.



After extension, check that the arrows on the extender and tray are aligned.

1. Remove the rear cover using a coin.



5. Follow Steps 3 to 7 in "Loading Paper into Tray1 and 2".

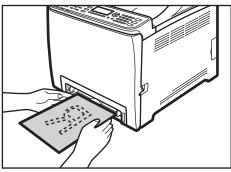
Note

• To reinsert the extender, you might have to push it with moderate force.

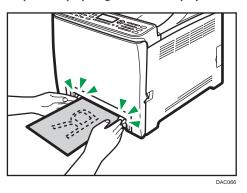
Loading Paper into Bypass Tray

🔁 Important

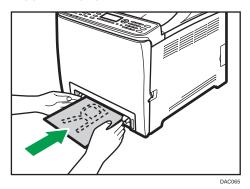
- Before printing on paper other than envelopes, make sure to pull up the levers on the machine rear, inside the rear cover.
- Load paper with the print side down and in the short-edge feed direction.
- Do not load paper while the machine is printing.
- Curled paper may jam. Straighten curled paper before loading.
- Duplex printing is not possible.
- Tray 1 and 2 are unavailable if paper is loaded in the bypass tray.
- You cannot load paper into the bypass tray while the machine is in Energy Saver mode.
- 1. Insert the top edge of the paper into the machine.



2. Adjust the paper guides to the paper size.



3. Support the paper with both hands, and insert it carefully until it stops.



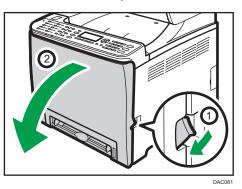
Loading Envelopes

C Important

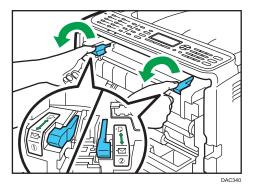
- Before printing on envelopes, make sure to lower the levers on the machine rear, inside the rear cover, to avoid envelopes coming out creased. Also, pull up the levers back to their original positions after printing.
- Avoid using self-adhesive envelopes. They may cause machine malfunctions.
- Check there is no air in the envelopes before loading.
- Load only one size and type of envelope at a time.
- Before loading envelopes, flatten their leading edges (the edge going into the machine) by running a pencil or ruler across them.
- Some kinds of envelope might cause misfeeds, wrinkles or print poorly.
- Print quality on envelopes may be uneven if parts of an envelope have different thicknesses. Print one or two envelopes in advance to check the print quality.
- In a hot and humid environment, the envelope might be delivered creased or with low printing quality.

Lowering the fusing unit levers

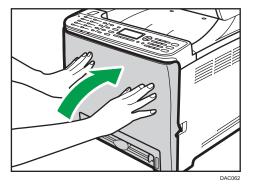
1. Pull the front cover open lever, and then carefully lower the front cover.



2. Lower the fusing unit levers.



3. Using both hands, carefully push up the front cover until it closes.

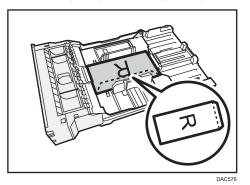


For details about loading an envelope, see page 54 "Loading Paper into Tray1 and 2", and page 58 "Loading Paper into Bypass Tray". Note that you cannot load an envelope in Tray 2.

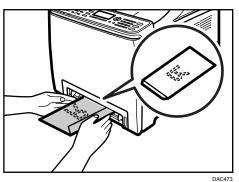
Vote

• Be sure to load envelopes so that their flaps are on the right. If you do not, the envelopes will become creased.

- If printed envelopes come out badly creased, load the envelopes in the opposite direction, and then rotate the print object by 180 degrees using the printer driver before printing. For details, see the printer driver Help.
- When Using Tray 1
 - If the envelope flap is on a short side, place the envelope with the flap side in the tray recess. If the envelope flap is on a long side, place the envelope with the flap side on the right.



- When Using the Bypass Tray
 - If the envelope flap is on a short side, place the envelope with the flap side in the front part of the tray. If the envelope flap is on a long side, place the envelope with the flap side on the right.



Specifying Paper Type and Paper Size Using Control Panel

This section explains how to specify the paper size and paper type using the control panel.

Vote

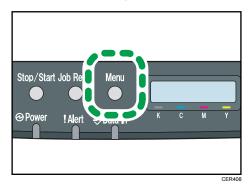
• Paper type and size can also be specified using the printer driver. For details, see the printer driver Help.

- For prints from the bypass tray or Tray 1, you can select to print according to either the printer driver settings or the control panel settings with [Bypass Priority] or [Tray1 Priority] under [Paper Input]. For details about [Bypass Priority] or [Tray1 Priority], see page 83 "Paper Input Menu".
- If [Auto Continue] under system menu is enabled, printing stops temporarily if a paper type/size
 error is detected. The printing restarts automatically with the settings made with the control panel
 after about ten seconds. However, if the size of paper specified on the control panel and that of the
 paper loaded in the paper tray or the paper size specified for the print job do not match when
 printing restarts, it may cause a paper jam. For details about [Auto Continue], see page 89
 "System Menu".

Specifying the paper type

This section explains how to specify the paper type.

1. Press the [Menu] key.

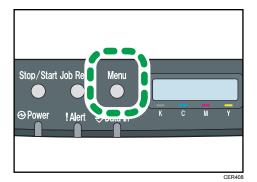


- 2. Press the [▲] or [▼] key to select [Paper Input], and then press the [OK] key.
- 3. Press the [▲] or [▼] key to select [Paper Type], and then press the [OK] key.
- Press the [▲] or [▼] key to select the paper type setting for the desired tray, and then press the [OK] key.
- 5. Press the [▲] or [▼] key to select the desired paper type, and then press the [OK] key.
- 6. Press the [Menu] key to return to the initial screen.

Specifying the standard paper size

This section explains how to specify the standard paper size.

1. Press the [Menu] key.



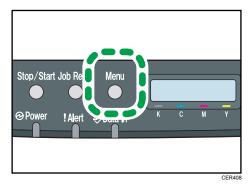
- 2. Press the [▲] or [▼] key to select [Paper Input], and then press the [OK] key.
- 3. Press the [▲] or [▼] key to select [Paper Size], and then press the [OK] key.
- Press the [▲] or [▼] key to select the paper size setting for the desired tray, and then press the [OK] key.
- 5. Press the [▲] or [▼] key to select the desired paper size, and then press the [OK] key.
- 6. Press the [Menu] key to return to the initial screen.

Specifying a custom paper size

This section explains how to specify a custom paper size.

🔁 Important

- Custom size paper cannot be loaded in tray 2.
- When you perform printing, make sure that the paper size specified with the printer driver matches the paper size specified with the control panel. If a paper size mismatch occurs, a message appears on the display. To ignore the error and print using mismatched paper, see page 67 "If a Paper Mismatch Occurs".
- 1. Press the [Menu] key.



2. Press the [▲] or [▼] key to select [Paper Input], and then press the [OK] key.

- 3. Press the [▲] or [▼] key to select [Paper Size], and then press the [OK] key.
- Press the [▲] or [▼] key to select the paper size setting for the desired tray, and then press the [OK] key.
- 5. Press the [▲] or [▼] key to select [Custom Size], and then press the [OK] key.
- 6. Press the [▲] or [▼] key to select [mm] or [inch], and then press the [OK] key.
- 7. Enter the width using the [▲] or [▼] key, and then press the [OK] key.
- 8. Enter the length using the [▲] or [▼] key, and then press the [OK] key.
- 9. Press the [Menu] key to return to the initial screen.

Basic Operation

This section explains the basic printing procedure.

1. Open the [Printing Preferences] dialog box in your document's application.

Setup Paper Print Quality Valo	d Acoas Watemata Copie:	×
Paper Size: Letter (55 % 11') Input: Auto (ng) Sect Part/Midde Thick/Resyct Urput: Settings	Diversition: Rotate by 100 degrees R Pape Data: Rotate by 100 degrees R Pape Data: Pape Data: Pape Data: R Pape Data: Pape Data: Pape Data: Image: Pape Data: Pa	
Save	Ignore Application Collete Collete Collete User ID: (1 to 9 alphanumeric letters)	
Color/ Black and White:	Pasywordt (4 to 8 digits)	
	About Restore Defaults	
	OK Cancel Apply Hel	ρ

For details about each setting, click [Help]. You can also click the information icons to display configuration information.

2. Configure printing option settings as necessary, and then click [OK].

The printer properties dialog box closes.

3. Click [OK].

Note

- If a paper jam occurs, printing stops after the current page has been printed out. After the jammed paper is removed, printing restarts from the jammed page automatically. For details about how to remove the jammed paper, see page 151 "Removing Printing Jams".
- After printing on envelopes, make sure to pull up the levers for printing on envelopes back to their original positions. For details about the levers for printing on envelopes, see page 59 "Loading Envelopes".

Canceling a Print Job

You can cancel print jobs using either the machine's control panel or your computer, depending on the status of the job.

Canceling a print job before printing has started

Windows

- 1. Double-click the printer icon on the task tray of your computer.
- 2. Select the print job you want to cancel, click the [Document] menu, and then click [Cancel].

Mac OS X

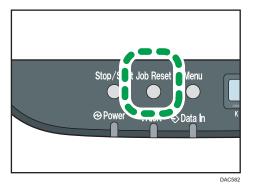
- 1. From the Apple menu, select [System Preferences...].
- 2. Under "Hardware", click [Print & Fax] or [Print & Scan].
- 3. Double-click the machine from "Printers".
- 4. Select the print job you want to cancel, and then click [Delete].

Note

- If you cancel a print job that has already been processed, printing may continue for a few pages before being canceled.
- It may take a while to cancel a large print job.

Canceling a print job while printing

1. Press the [Job Reset] key.



If a Paper Mismatch Occurs

The machine reports an error if:

• The paper size or type does not match the print job's settings when [Input Tray:] is set to [Auto Tray Select].

There are two ways to resolve these errors:

Continue printing using mismatched paper

Use the form-feed function to ignore the error and print using mismatched paper.

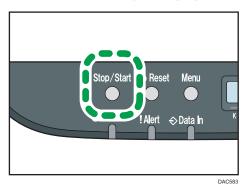
Reset the print job

Cancel printing.

Continuing Printing Using Mismatched Paper

If the paper is too small for the print job, the printed image will be cropped.

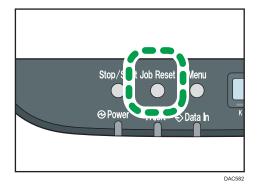
1. While an error message is displayed on the control panel, press the [Stop/Start] key.



3

Resetting the Print Job

1. While an error message is displayed on the control panel, press the [Job Reset] key.



Printing Confidential Documents

By the Locked Print function, you can password-protect print jobs.

This means that your job is printed only after you enter the password using the machine's control panel.

This function prevents unauthorized users from seeing sensitive documents at the machine.

🔁 Important

- This function is available for the Type 2 model only.
- This function is only available when using the PCL printer driver, and printing from a computer running a Windows operating system.
- The procedure in this section is an example based on Windows 7.

Storing a Locked Print file

This section explains how to store a Locked Print file in the machine using the printer driver.

- 1. Open the file you want to print on your computer.
- 2. On the [File] menu, click [Print...].
- 3. In the [Select Printer] area, select the name of this machine, and then click [Preferences].
- 4. Click the [Setup] tab, and then select [Locked Print].

The [Password:] and [User ID:] text boxes become available.

The [User ID:] text box contains the login user name of your computer account or the user code used for the previous Locked Print job.

5. Type the password (containing 4 to 8 digits) and user ID (containing 1 to 9 alphanumeric characters), and then click [OK].

The user code will be used to identify your Locked Print file on the machine's control panel.

6. Execute a print command.

The print job is stored in the machine as a Locked Print file. You can print the file by entering the password using the control panel.

Note

- The Locked Print file is automatically erased from the machine's memory when it is printed out, or when the machine's power is turned off.
- The machine can store up to 5 jobs or 5 MB of Locked Print data at a time.
- Even if the printer cannot store any more Locked Print files, the printer holds a new Locked Print file for the period of time specified in [Timeout:LockPrt] under [Host Interface] before canceling the job. Within this time, you can print or delete the new Locked Print file. You can also print or delete an existing Locked Print file so that the new Locked Print file can be stored in the machine.

• When a Locked Print job is canceled, the machine automatically logs the cancellation. You can use this log to identify which Locked Print jobs have been canceled.

Printing a Locked Print File

When there is a Locked Print file stored in the printer, "Locked Print Job Press OK" appears on the printer's control panel display.

Locked Print Job Press OK

Use the following procedure to unlock and print the Locked Print file.

- 1. When the Locked Print message is displayed, press the [OK] key.
- 2. Press the [▲] or [▼] key to select the file you want to print, and then press the [OK] key.

Locked Print : HH : MM User ID

"HH:MM" is the time when the Locked Print file was stored, and "User ID" is the user ID entered using the printer driver.

- 3. Press the [▲] or [▼] key to select [Print Job], and then press the [OK] key.
- 4. Enter the password using the [▲] or [▼] keys.
 - Press the [OK] key to confirm the entry of each digit.
 - Press the [Escape] key to discard the current digits and exit to the previous level of the menu tree.
- 5. Press the [OK] key.

The Locked Print file is printed.

Deleting a Locked Print File

When there is a Locked Print file stored in the printer, "Locked Print Job Press OK" appears on the printer's control panel display.

Locked Print Job Press OK Use the following procedure to delete a Locked Print file. You do not need to enter a password to delete a Locked Print file.

- 1. When the Locked Print message is displayed, press the [OK] key.
- 2. Press the [▲] or [▼] key to select the file you want to delete, and then press the [OK] key.

Locked Print : HH : MM User ID

- 3. Press the [▲] or [▼] key to select [Delete Job], and then press the [OK] key.
- 4. Press the [▲] or [▼] key to select [Execute], and then press the [OK] key.

The Locked Print file is deleted.

If there are Locked Print files/logs remaining in the printer, the display returns to the list of Locked Print files/logs. If there are none remaining, the display returns to the initial screen.

Checking which Locked Print File Jobs Have Been Canceled

When a Locked Print job is canceled, the printer automatically logs the cancellation. If the printer has created a cancellation log, "Locked Print Job Deleted" will appear on the control panel display.

Locked Print Job Deleted

Use the following procedure to check which Locked Print file jobs have been canceled.

- 1. When the Locked Print message is displayed, press the [OK] key.
- 2. Press the [▲] or [▼] key to find a file whose name starts with an "!" mark.

The "!" mark indicates that the job has been canceled.

Locked Print: ! HH : MM User ID

"HH:MM" is the time when the Locked Print file was stored, and "User ID" is the user ID entered using the printer driver.

To delete the log entry, proceed to the following steps.

- 3. Press the [OK] key.
- 4. Confirm that the log entry you want to delete is selected, and then press the [OK] key.

3

5. Press the [▲] or [▼] key to select [Execute], and then press the [OK] key.

The log is deleted.

If there are Locked Print logs/files remaining in the printer, the display returns to the list of Locked Print logs/files. If there are none remaining, the display returns to the initial screen.

Direct Printing from a Digital Camera (PictBridge)

What Is PictBridge?

You can connect a PictBridge-compatible digital camera to this machine using a USB cable. This allows you to directly print photographs by operating the digital camera.

Vote

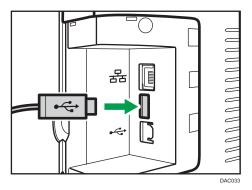
- Check that your digital camera is PictBridge-compatible.
- Up to 999 images can be sent from the digital camera to the machine during one print transaction. If an attempt is made to send more images, an error message is sent to the camera and printing fails.
- Since printing conditions are specified on the digital camera, specifiable parameters depend on the digital camera. For details, see the manuals provided with the digital camera.
- This function is compatible with USB 2.0.

PictBridge Printing

Use the following procedure to start PictBridge printing on this machine.

🔂 Important

- Memory overflow errors can occur during printing a high-resolution image. If this happens, reduce the size of the data, and then try the operation again.
- Do not disconnect the USB cable while data is being sent. If you do, printing will fail.
- 1. Make sure that both the machine and the digital camera are turned on.
- Connect the USB cable to the USB host interface board on the machine and to your digital camera.



When the printer recognizes the digital camera as a PictBridge device, "PictBridge Connecting...", then "Ready" will appear on the machine's control panel.

- 3. On your digital camera, select the images you want to print, and then specify the printing conditions.
- 4. The machine receives the specified data from the digital camera and starts printing.

\rm Note

- Some digital cameras require specifying settings manually for PictBridge operation. For details, see the manual provided with the digital camera.
- Some digital cameras require manually operating a switch for PictBridge operation. For details, see the manual provided with the digital camera.
- Some digital cameras need to be switched off when connecting to the printer. For details, see the manual provided with the digital camera.

What Can Be Done on this Machine

This machine can perform the following functions using its PictBridge feature.

The settings available for these functions are as follows:

- Single image printing
- Selected image printing
- All image printing
- Index printing
- Copies
- Paper size
- N-up layout

🕗 Note

• The setting parameters and their names may vary depending on the digital camera. For details, see the manuals provided with the digital camera.

Exiting PictBridge

Use the following procedure to quit the PictBridge mode.

Comportant 🗋

- Do not disconnect the USB cable while data is being sent to the machine. If you do, printing will fail.
- 1. Check that "Ready" appears on the screen.

2. Disconnect the USB cable from the machine.

When PictBridge Printing Does Not Work

This section explains likely causes and possible solutions for problems that can occur during PictBridge printing.

Problem	Cause	Solution
PictBridge is not available.	There is a problem with the USB connection or the PictBridge settings.	 Use the following procedure to check the connection and settings: 1. Disconnect and then reconnect the USB cable. 2. Check the PictBridge settings are enabled. 3. Disconnect the USB cable, and then turn off the machine. Turn the machine back on. When the machine has fully booted up, reconnect the USB cable.
When two or more digital cameras are connected, the second and subsequent cameras are not recognized.	You have connected multiple digital cameras.	Connect one digital camera only. Do not connect multiple cameras.
Cannot print.	The specified number of prints exceeds the maximum number that can be printed at a time.	The maximum specifiable print quantity at a time is 999. Change the quantity to 999 or less, and then retry printing.

Problem	Cause	Solution
Cannot print.	The specified type of paper is not loaded.	The specified type of paper is not loaded.
		If you have to use paper that is not of the specified size, perform continue printing using mismatched paper or cancel the print job. For details, see page 67 "If a Paper Mismatch Occurs".
Cannot print.	The specified paper size is not supported by this machine.	Select the paper with the size that can be printed on the machine.

Using Various Print Functions

This section briefly describes various print functions that you can configure with the printer driver to make printouts appropriate for your purposes.

Print Quality Functions

Print quality and color tone can be adjusted to suit the print data. Some of the print quality settings you can configure are described below.

Printing color documents in black and white

The black produced in black and white printing is a more distinct black than that produced in color printing.

Separating the print data into CMYK and printing in designated color only

Normally, all four colors (CMYK) are used for color printing. If you do not want to use certain colors, you can disable the use of those colors and print using other colors only.

Saving toner when printing (Economy Color printing)

You can save toner by printing with lower toner consumption. The amount of toner that will be used depends on the object, such as text, line, or image.

Changing the image printing method

You can select to print with priority on print quality or print speed. When printing images, the higher the resolution of images is, the longer the time is required for printing.

Changing the dither pattern

A dither pattern is a pattern of dots used to simulate a color or shade of an image. If the pattern is changed, the characteristics of the image will also change. You can select a pattern suitable for the image to be printed.

Changing the color profiling pattern

You can select a color profiling pattern to adjust the tone of colors according to the colors displayed on the computer screen.

Because colors on the computer screen are created using the three RGB colors while colors for printing are composed of the four CMYK colors, colors need to be converted during the printing process. Therefore, images on the printed paper may look different from those on the computer screen if adjustment is not performed.

Printing grayscale images using black or CMYK

You can print black or gray sections of an image using black toner only, instead of using all CMYK toners. Compared to the black printed with CMYK toner, this results in a black that is flatter and purer.

Using ICM (Image Color Matching)

You can use Windows ICM function to reproduce colors that appear on the computer screen as close as they are on printed paper.

To use this function, the color profile must be added to the computer. You can find the color profile in the ICM folder stored on the provided printer driver CD-ROM. For information about adding a color profile, search Windows Help for "color profile", and then see the appropriate topic.

Vote

 Some of the functions described above might not be available depending on the printer driver or operating system. For details, see the printer driver Help.

Print Output Functions

You can specify the form of print outputs according to your purposes. This section briefly describes some of the settings that you can specify.

Printing multiple sets of a document

You can print multiple sets of the same document.

Collating the output in document batches

You can print complete sets of a multiple-page document one set at a time (P1, P2, P1, P2 ...). If this function is not used when printing multiple sets, prints will be output in page batches (P1, P1, P2, P2 ...). This function is useful when, for example, making presentation materials.

Changing orientation or rotating the image

You can change the orientation of an image to portrait or landscape. You can also rotate the image by 180 degrees. Use rotation to prevent an image from being printed upside down when using paper with a predefined top and bottom (such as letterhead paper).

Printing multiple pages per sheet

You can print multiple pages onto one sheet of paper.

When using this function, a suitable reduction ratio is selected automatically based on the paper size and the number of pages you want to fit on each sheet.

Printing on both sides of paper (duplex printing)

You can print on both sides of paper.

Reducing or enlarging the document

You can reduce or enlarge documents by a specific ratio, from 25% to 400% in 1% increments. You can also reduce or enlarge documents automatically to fit a specific paper size. This function is useful, for example, when printing Web pages.

If the [Enable Large Papers] option is selected, $A3/11 \times 17/B4/8K$ documents can be scaled to a size that the machine supports, so that it can then be printed out.

Not printing of blank pages

If a print job contains blank pages, they can be prevented from being printed.

Note that this setting has higher priority than [Blank Pg. Print] under the system menu of the control panel.

Printing with a cover page

You can add a cover page to the print job.

You can select to leave the cover page blank, or print the first page of the document on the cover page. If a cover page is inserted into a duplex job, you can print on its back side also.

Paper for the cover page can either be the same as or different from the remaining pages.

Printing on custom size paper

You can print using non-standard size paper by specifying the size of the paper as custom size.

To specify the custom paper size, select [Custom Paper Size] from the [Document Size:] list, and then click the [Custom Paper Size...] button in the lower part of the dialog box to configure the paper size.

Superimposing text on prints (watermark)

You can superimpose watermark text on prints. Various predefined watermarks are provided. You can also create your own watermarks.



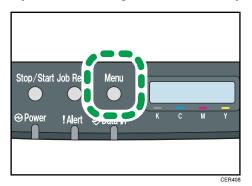
• Some of the functions described above might not be available depending on the printer driver or operating system. For details, see the printer driver Help.

3. Printing Documents

4. Configuring the Machine Using the Control Panel

Basic Operation

1. If you want to configure the machine's system settings, press the [Menu] key.



- 2. Press the [▲] or [♥] key to select the settings you want to use.
- 3. To confirm setting items and values displayed, press the [OK] key.
- 4. To go back to the previous item, press the [Menu] key.

Menu Chart

This section lists the parameters included in each menu.

For details about configuring the machine using Web Image Monitor, see page 101 "Configuring the Machine Using Web Image Monitor".

🔁 Important

- Some items might not appear depending on the model type or machine's configuration.
- Some items can also be configured using Web Image Monitor.

Paper Input

[Paper Size], [Paper Type], [Tray Priority], [Bypass Priority], [Tray 1 Priority]

List/Test Print

[Config. Page], [Menu List], [Test Page], [PCL Font List], [PS Font List], [Maintenance Pg.]

Maintenance

[Color Dens/Reg], [TonerAlmstEmpty], [Anti-Humid Lv]]

System

[Auto Continue], [Copies], [Sub Paper Size], [Def Ppr Size], [Duplex], [Blank Pg. Print], [Energy Saver 1], [Energy Saver 2], [B&W Page Detect], [Restore Default], [Prt. Err.Report], [BW Prt Priority] [Auto Cleaning], [PCL6 Mode]

Host Interface

[Timeout:LockPrt], [Timeout: USB], [Timeout: NW], [Network Setting], [Fixed USB Port]

PCL Menu

[Orientation], [Form Lines], [Font Number], [Point Size], [Font Pitch], [Symbol Set], [Courier Font], [Ext.A4 Width], [Append CR to LF], [Resolution]

PS Menu

[Resolution], [Color Profile]

Language

[English], [French], [German], [Italian], [Spanish], [Dutch], [Swedish], [Norwegian], [Danish], [Finnish], [Portuguese]

Paper Input Menu

Paper Size: Tray 1

Specifies the paper size for Tray 1.

Default:
Region A (mainly Europe and Asia) [A4],
Region B (mainly North America) [8 1/2 x 11]

A4, B5 JIS, A5, 8 1/2 × 14, 8 1/2 × 11, 7 1/4 × 10 1/2, 8 × 13, 8 1/2 × 13, 8 1/4 × 13, 16K, Custom Size, 4 1/8 × 9 1/2, 3 7/8 × 7 1/2, C5 Env, C6 Env, DL Env, 5 1/2 × 8 1/2, B6 JIS, A6

Paper Size: Tray 2

Specifies the paper size for Tray 2.

This setting appears only when the optional paper feed unit is installed.

Default:
Region A (mainly Europe and Asia) [A4],
Region B (mainly North America) [8 1/2 x 11]

• A4, 81/2x11

Paper Size: Bypass Tray

Specifies the paper size for the bypass tray.

Default: <u>Region</u> (mainly Europe and Asia) [A4], <u>Region</u> (mainly North America) [8 1/2 x 11]

A4, B5 JIS, A5, 8 1/2 × 14, 8 1/2 × 11, 7 1/4 × 10 1/2, 8 × 13, 8 1/2 × 13, 8 1/4 × 13, 16K, Custom Size, 4 1/8 × 9 1/2, 3 7/8 × 7 1/2, C5 Env, C6 Env, DL Env, 5 1/2 × 8 1/2, B6 JIS, A6

Paper Type: Tray 1

Specifies the paper type for Tray 1.

Default: [Plain Paper]

 Thin Paper, Plain Paper, Middle Thick, Thick Paper 1, Recycled Paper, Color Paper, Letterhead, Preprinted, Prepunched, Label Paper, Bond Paper, Cardstock, Envelope, Thick Paper 2

Paper Type: Tray 2

Specifies the paper type for Tray 2.

This setting appears only when the optional paper feed unit is installed.

Default: [Plain Paper]

• Thin Paper, Plain Paper, Middle Thick, Thick Paper 1, Recycled Paper, Color Paper, Letterhead, Preprinted, Prepunched

Paper Type: Bypass Tray

Specifies the paper type for the bypass tray.

Default: [Plain Paper]

• Thin Paper, Plain Paper, Middle Thick, Thick Paper 1, Recycled Paper, Color Paper, Letterhead, Prepunched, Label Paper, Bond Paper, Cardstock, Envelope, Thick Paper 2

Tray Priority

Specifies the tray that the printer uses first for printer jobs from Tray 1 or tray 2.

If automatic tray selection is specified for the print job and both tray 1 and Tray 2 contain paper that matches the print job, the printer starts to print from the specified tray. If that tray runs out of paper, the printer automatically switches to the other tray to continue printing.

[Tray 2] appears only when the optional paper feed unit is installed.

Default: [Tray 1]

- Tray 1
- Tray 2

Bypass Priority

Specifies how print jobs using the bypass tray are handled.

Default: [Driver/Command]

• Machine Setting

The paper settings configured on the machine's control panel are applied to all print jobs. An error occurs when the paper settings specified by the printer driver or the print command do not match the machine's settings.

• Driver/Command

When executing a print job specifying the paper tray, the paper settings specified in the printer driver or in the print command are applied regardless of the machine's settings.

• Any Size/Type

Printing proceeds even if the paper size/type settings of the printer and printer driver do not match. However, if the paper is too small for the print job, the printed image will be cropped.

Any Custom S/T

The printer prints custom size print jobs according to the printer driver's settings and prints standard size print jobs according to the printer's settings.

For custom size print jobs, printing proceeds even if the paper size/type settings of the printer and printer driver do not match. However, if the paper is too small for the print job, the printed image will be cropped.

For standard size print jobs, an error will occur if the paper size/type settings of the printer and printer driver do not match.

Tray1 Priority

Specifies how print jobs using the Tray 1 are handled.

Default: [Machine Setting]

Machine Setting

The paper settings configured on the machine's control panel are applied to all print jobs. An error occurs when the paper settings specified by the printer driver or the print command do not match the machine's settings.

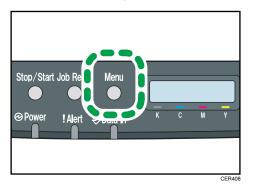
Driver/Command

When the paper tray is specified for a print job, the paper settings specified in the printer driver or in the print command are applied, regardless of the machine's settings.

List/Test Print Menu

Printing the Configuration Page

1. Press the [Menu] key.



The menu screen appears.

- 2. Press the [▲] or [▼] key to select [List/Test Print], and then press the [OK] key.
- 3. Press the [▲] or [▼] key to select [Config. Page], and then press the [OK] key.

The configuration page is printed. The [List/Test Print] screen appears on completion of printing.

Types of Lists/Reports

Note

• The lists will be printed using the tray set for [Tray Priority] in paper input settings on A4 or Letter size paper.

Config. Page

Prints general information and the current configurations of the printer.

Menu List

Prints the machine's function menus.

Test Page

Prints a test page for checking the single-sided printing condition. The test page contains network settings.

PCL Font List

Prints installed PCL font list.

PS Font List

Prints installed PostScript font list.

Maintenance Pg.

Prints the maintenance page.

Maintenance Menu

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

Color Dens/Reg

Adjusts color density and registration automatically.

TonerAlmstEmpty

Specifies the low toner level notification timing.

Default: [Normal]

Normal

Low toner level notification will be made when the number of pages that can be printed with the remaining toner is approximately 200.

• Notify Later

Low toner level notification will be made when the number of pages that can be printed with the remaining toner is approximately 100.

• Notify Sooner

Low toner level notification will be made when the number of pages that can be printed with the remaining toner is approximately 300.

Anti-Humid Lvl

You can set the printer to produce prints in consistent quality even when humidity is high.

Default: [Off]

- Off
- Level 1

Select this mode if printouts are blurred.

Level 2

Select this mode if printouts are curled and/or blurred. Note that if you select this mode, the first print takes longer than subsequent prints.

Level 3

Select this mode if printouts are still curled and/or blurred even when prints are made in [Level 2]. Note that this mode requires more time to produce the first print than [Level 2].

System Menu

Auto Continue

Sets the printer to ignore an error with paper size or type and continue printing. The printing stops temporarily when an error is detected, and restarts automatically after about ten seconds using the settings made on the control panel. However, if the size of paper specified on the control panel and that of the paper loaded in the paper tray or the paper size specified for the print job do not match when printing restarts, it may cause a paper jam.

Default: [Off]

- Off
- On

Copies

Sets the machine to print the specified number of sets.

This setting is disabled if the number of pages to print is specified by command or the printer driver.

Default: "**1**"

• 1 - 999

Sub Paper Size

Sets the printer to print onto paper of another size if the specified paper is not loaded in any tray. Alternative sizes are preset to A4 and Letter.

Default: [Off]

- Off
- Auto

Def Ppr Size

Specifies the paper size to be used when the paper size is not specified in the print job.

Default:
Region A (mainly Europe and Asia) [A4],
Region B (mainly North America) [8 1/2 × 11]

A4, B5 JIS, A5, B6 JIS, A6, 8 1/2 × 14, 8 1/2 × 11, 5 1/2 × 8 1/2, 7 1/4 × 10 1/2, 8 × 13, 8 1/2 × 13, 8 1/4 × 13, 16K, 4 1/8 × 9 1/2, 3 7/8 × 7 1/2, C5 Env, C6 Env, DL Env

Duplex

Sets the printer to print on both sides of paper according to the specified binding method.

Default: [Off]

- Off
- Short Edge Bind
- Long Edge Bind

4

Blank Pg. Print

Sets the printer to print blank pages.

Note that this setting has lower priority than the printer driver's blank page setting.

When cover sheet printing is enabled from the printer driver, cover sheets are inserted even if you select [Off].

Default: [On]

- On
- Off

Energy Saver 1

The machine enters Energy Saver mode 1 if the machine has been idle for about 30 seconds. It takes less time to recover from Energy Saver mode 1 than from power-off state or Energy Saver mode 2, but power consumption is higher in Energy Saver mode 1 than in Energy Saver mode 2.

Default: [Off]

- Off
- On (30 seconds)

Energy Saver 2

The machine enters Energy Saver mode 2 after the period of time specified for this setting is passed. The machine consumes less power in Energy Saver mode 2 than in Energy Saver mode 1, but it takes longer to recover from Energy Saver mode 2 than from Energy Saver mode 1.

Default: [On] (1 minutes)

- On (1 to 240 minutes, in 1 minute increments)
- Off

B&W Page Detect

Sets the printer to print all monochrome pages in monochrome mode even if color printing is specified.

Default: [On]

- On
- Off

Restore Default

Resets the printer settings to their factory-set defaults.

Prt. Err.Report

Sets the printer to print an error page when the printer detects a printer or memory error.

Default: [Off]

- On
- Off

BW Prt Priority

Sets the printer to suppress the consumption of color toner when printing black-and-white pages.

Also, the amount of color toner consumed during warm-up time for maintenance will also be lowered.

Default: [Off]

- Off
- On

Auto Cleaning

Sets the machine to execute periodic cleaning of the interior. You may hear some noise while cleaning is being executed. This noise does not indicate a malfunction.

Default: [On]

- On
- Off

PCL6 Mode

Set this to [Universal] when using the Universal Driver and to [SP C250/C252] when using the normal driver.

Default: [SP C250/C252]

- Universal
- SP C250/C252

Host Interface Menu

Timeout:LockPrt

Specifies how many seconds the printer holds a new Locked Print file, when the printer cannot store any more Locked Print files. Within this time, you can print or delete the new Locked Print file. You can also print or delete an existing Locked Print file so that the new Locked Print file can be stored in the printer.

This setting appears only for the Type 2 model.

Default: "60" seconds

• 0 to 300 seconds, in increments of 1 second

Timeout: USB

Specifies how many seconds the printer should wait before ending a print job that is receiving via USB. If printing is frequently interrupted by data from other ports, increase the timeout period.

Default: [60 sec.]

- 60 sec.
- 300 sec.
- 15 sec.

Timeout: NW

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

Default: [60 sec.]

- 60 sec.
- 300 sec.
- 15 sec.

Network Setting

Ethernet Speed

Displays the current Ethernet speed setting.

Default: [Auto Select]

- Auto Select
- 10Mbps Half D.
- 10Mbps Full D.
- 100Mbps Half D.
- 100Mbps Full D.
- IPsec

Selects whether to enable or disable IPsec.

Default: [Inactive]

- Inactive
- Active
- MAC Address

Displays the machine's MAC address.

- Wi-Fi Config.
 - Wi-Fi

Select whether to enable or disable Wireless LAN.

Default: [Inactive]

- Inactive
- Active

If [Inactive] is set, [Wi-Fi Status], [MAC Address], [Currnt Connectn], [Setup Wizard], and [WPS] are not displayed.

• Wi-Fi Status

Displays the current connection status.

• MAC Address

Displays the machine's MAC address.

Currnt Connectn

Displays detailed information about the connection, such as the SSID and the wireless signal strength.

• Setup Wizard

Displays the procedure for manually connecting to a wireless LAN. It leads you step-bystep through configuring the settings for connecting with a wireless LAN.

• WPS

Connects with one touch using WPS (Wi-Fi Protected Setup). For details, see Wi-Fi Settings Guide.

- IPv4 Config.
 - DHCP

Sets the machine to receive its IPv4 address, subnet mask, and default gateway address automatically from a DHCP server.

Default: [Active]

- Active
- Inactive

• IP Address

Specifies the machine's IPv4 address when DHCP is not used.

Use this menu to check the current IP address when DHCP is used.

Default: XXX.XXX.XXX.XXX

The numbers represented by "X" vary according to your network environment.

• Subnet Mask

Specifies the machine's subnet mask when DHCP is not used.

Use this menu to check the current subnet mask when DHCP is used.

Default: XXX.XXX.XXX.XXX

The numbers represented by "X" vary according to your network environment.

• Gateway Address

Specifies the machine's default gateway address when DHCP is not used.

Use this menu to check the current default gateway address when DHCP is used. Default: XXX.XXX.XXX.XXX

The numbers represented by "X" vary according to your network environment.

• IP Addr. Method

Displays the IP address acquisition method.

- DHCP
- Auto IP
- Manual Config.
- Default IP
- IPv6 Config.
 - IPv6

Selects whether to enable or disable IPv6.

Default: [Active]

- Active
- Inactive
- DHCP

Sets the printer to receive its IPv6 address from a DHCP server.

When DHCP is used, you cannot specify the IPv6 address manually.

Default: [Inactive]

- Inactive
- Active

• IP Ad. (DHCP)

Displays the IPv6 address obtained from a DHCP server.

- Manual Address
 - Manual Address

Specifies the machine's IPv6 address when DHCP is not used. Can contain up to 39 characters.

• Prefix Length

Specifies the prefix length, using a value between 0 and 128.

• Gateway Address

Specifies the IPv6 address of the default gateway. Can contain up to 39 characters.

• Stateless Ad.

Displays the IPv6 stateless addresses obtained from a Router Advertisement.

- Address 1
- Address 2
- Address 3
- Address 4
- Link-local Ad.

Displays the IPv6 link local address.

Fixed USB Port

Specifies whether the same printer driver can be used for multiple printers or not under USB connection.

Default: [Off]

• On

The same printer driver you have installed in your computer can be used with any printer other than the one originally used for installation, if the printer is of the same model.

• Off

You must install the printer driver separately for individual printers, because the printer other than the original will be recognized as a new device upon USB connection.

Vote

• Contact your network administrator for information about the network configuration.

PCL Menu

Orientation

Selects the page orientation.

Default: [Portrait]

- Portrait
- Landscape

Form Lines

Specifies the number of lines per page between 5 and 128.

Default: @Region A (mainly Europe and Asia) [64], @Region B (mainly North America) [60]

Font Number

Specifies the ID of the default font you want to use between 0 and 89.

Default: "0"

Point Size

Specifies the point size you want to use for the default font between 4.00 and 999.75 in 0.25 increments.

Default: [12.00 points]

Font Pitch

Specifies the number of characters per inch you want to use for the default font between 0.44 and 99.99 in 0.01 increments.

This setting is effective only for fixed-space fonts.

Default: [10.00 pitch]

Symbol Set

Specifies the character set for the default font. Available sets are as follows: PC-8, PC-8 D/N, PC-850, PC-852, PC-858, PC8-TK, Win L1, Win L2, Win L5, Desktop, PS Text, VN Intl, VN US, MS Publ, Math-8, PS Math, VN Math, Pifont, Legal, ISO 4, ISO 6, ISO 11, ISO 15, ISO 17, ISO 21, ISO 60, ISO 69, Win 3.0, MC Text, ISO L6, ISO L9, PC-775, PC-1004, Win Balt, Roman-8, Roman-9, ISO L1, ISO L2, ISO L5

Default: [PC-8]

Courier Font

Specifies a courier-type font.

Default: [Regular]

- Regular
- Dark

Ext.A4 Width

Sets the printer to extend the width of the printable area of A4 size paper, reducing side margin width.

Default: [**Off**]

- Off
- On

Append CR to LF

Sets the printer to append a CR code to each LF code to print text data clearly.

Default: [Off]

- Off
- On

Resolution

Specifies the print resolution in dots per inch.

Default: [600 x 600 1 bit]

- 600 x 600 1 bit
- 600 x 600 2bit
- 600 x 600 4bit

PS Menu

Resolution

Specifies the print resolution in dots per inch.

Default: [600 x 600 1 bit]

- 600 x 600 1 bit
- 600 x 600 2bit
- 600 x 600 4bit

Color Profile

Specifies the color profile.

Default: [Solid Color]

- Solid Color
- Presentation
- Photographic
- Off

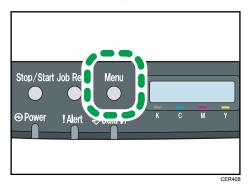
Language Menu

You can set language displayed on the menu.

Changing the Language Menu

Use the following procedure to change the language.

1. Press the [Menu] key.



- 2. Press the [▲] or [▼] key to select [Language], and then press the [OK] key.
- 3. Press the [▲] or [▼] key to select the language, and then press the [OK] key.

The selected item is displayed for two seconds with an asterisk, and then the [Language] screen appears.

4. Press the [Menu] key to return to the initial screen.

You can select the language you want to use. Available languages are as follows:

English, French, German, Italian, Spanish, Dutch, Swedish, Norwegian, Danish, Finnish, Portuguese.

4. Configuring the Machine Using the Control Panel

5. Configuring the Machine Using Web Image Monitor

Using Web Image Monitor

• Note

 To operate the machine via Web Image Monitor, you must first configure the machine's TCP/IP or wireless LAN settings. For details, see page 92 "Host Interface Menu" or see page 113 "Configuring the Network Settings".

🔂 Important 🔵

- Some items might not appear, depending on the model type you are using.
- Some items can also be configured using the control panel.

Available operations

The following operations can be performed remotely using Web Image Monitor on a computer:

- Displaying the machine's status or settings
- Configuring the machine's settings
- Configuring the user restriction settings
- Configuring the network settings
- Configuring the IPsec settings
- Printing reports
- Setting the administrator password
- Resetting the machine's configuration to the factory default
- Creating backup files of the machine's configuration
- Restoring the machine's configuration from backup files
- Configuring the machine's Energy Saver mode setting

Supported Web browsers

• Windows:

Internet Explorer 6.0- 11.0

• Mac OS X:

Safari 3.0- 6.0

Displaying Top Page

When you access the machine using Web Image Monitor, the top page appears in your browser's window.

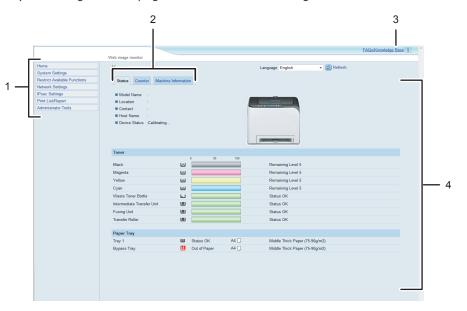
- 1. Launch the Web browser.
- 2. In the Web browser's address bar, enter "http://(machine's IP address)/" to access the machine.

If a DNS or WINS server is used and the machine's host name has been specified, you can enter the host name instead of the IP address.

The top page of Web Image Monitor appears.

Top page

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



DAC524

1. Menu area

Clicking a menu shows its contents in the main area.

2. Tab area

Contains tabs for switching between information and settings you want to see or configure.

3. FAQs/Knowledge Base

Provides answers to frequently asked questions and other useful information about using this machine.

An internet connection is required to view this information.

4. Main area

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

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

• Note

- If you use an older version of a supported Web browser or the Web browser has JavaScript and cookies disabled, display and operation problems may occur.
- If you are using a proxy server, configure the Web browser settings as necessary. For details about the settings, contact your network administrator.
- The previous page may not appear even if the back button of the Web browser is clicked. If this happens, click the refresh button of the Web browser.
- The FAQs (Frequently Asked Questions)/Knowledge Base are not available in certain languages.

Changing the Interface Language

Select the desired interface language from the [Language] list.

Checking the System Information

Click [Home] to display the main page of Web Image Monitor. You can check the current system information on this page.

This page contains three tabs: [Status], [Counter], and [Machine Information].

Status Tab

ltem	Description
Model Name	Shows the name of the machine.
Location	Shows the location of the machine as registered on the [SNMP] page.
Contact	Shows the contact information of the machine as registered on the [SNMP] page.
Host Name	Shows the host name specified in [Host Name] on the [DNS] page.
Device Status	Shows the current messages on the machine's display.

Toner

ltem	Description
Black	Shows the amount of black toner remaining.
Magenta	Shows the amount of magenta toner remaining.
Yellow	Shows the amount of yellow toner remaining.
Cyan	Shows the amount of cyan toner remaining.
Waste Toner Bottle	Shows the remaining life of the waste toner bottle, as "Status OK", "Almost Full" or "Full".
Intermediate Transfer Unit	Shows the remaining life of the intermediate transfer unit, as "Status OK", "Replacement Required Soon" or "Replacement Required". For replacing, contact your sales or service representative.
Fusing Unit	Shows the remaining life of the fusing unit, as "Status OK", "Replacement Required Soon" or "Replacement Required". For replacing, contact your sales or service representative.

ltem	Description
Transfer Roller	Shows the remaining life of the transfer roller, as "Status OK", "Replacement Required Soon" or "Replacement Required".
	For replacing, contact your sales or service representative.

Paper Tray

ltem	Description
Tray 1	Shows the current state and paper size/type setting of Tray 1.
Tray 2	Shows the current state and paper size/type setting of Tray 2.
Bypass Tray	Shows the current state and paper size/type setting of the bypass tray.

• Note

- If a non-genuine print cartridge is installed, toner life cannot be reliably indicated.
- The information about intermediate transfer unit, fusing unit, and transfer roller appear only for the Type 2 model.
- The information about Tray 2 appears only when it is installed.

Counter Tab		

Machine Counter

ltem	Description
Machine Counter	 Shows the following for pages printed, including lists/reports: Total number of pages Number of color pages Number of black-and-white pages
Black	 Shows the following for pages printed, including lists/reports: Accumulated value of black toner A4 page coverage (in percent) Accumulated value of black toner consumption (converted into fully-covered A4 pages)

ltem	Description	
Cyan	Shows the following for pages printed, including lists/reports:	
	 Accumulated value of cyan toner A4 page coverage (in percent) 	
	 Accumulated value of cyan toner consumption (converted into fully- covered A4 pages) 	
Magenta	Shows the following for pages printed, including lists/reports:	
	Accumulated value of magenta toner A4 page coverage (in percent)	
	 Accumulated value of magenta toner consumption (converted into fully-covered A4 pages) 	
Yellow	Shows the following for pages printed, including lists/reports:	
	 Accumulated value of yellow toner A4 page coverage (in percent) 	
	 Accumulated value of yellow toner consumption (converted into fully- covered A4 pages) 	

Economy Color Prints

ltem	Description
Economy Color Prints (Color)	Shows the number of pages printed in Economy Color Printing mode using the printer function.
Black	Shows the following for pages printed in Economy Color Printing mode using the printer function:Accumulated value of black toner A4 page coverage (in percent)
	 Accumulated value of black toner consumption (converted into fully- covered A4 pages)
Cyan	Shows the following for pages printed in Economy Color Printing mode using the printer function:
	 Accumulated value of cyan toner A4 page coverage (in percent)
	 Accumulated value of cyan toner consumption (converted into fully- covered A4 pages)
Magenta	Shows the following for pages printed in Economy Color Printing mode using the printer function:
	Accumulated value of magenta toner A4 page coverage (in percent)
	 Accumulated value of magenta toner consumption (converted into fully-covered A4 pages)

ltem	Description
Yellow	Shows the following for pages printed in Economy Color Printing mode using the printer function:
	 Accumulated value of yellow toner A4 page coverage (in percent)
	 Accumulated value of yellow toner consumption (converted into fully- covered A4 pages)

Duplex

ltem	Description
Duplex Total Page	Shows the total number of sheets printed on both sides.



• A sheet printed on both sides counts as two printed pages.

Machine Information Tab

Machine Information

ltem	Description
Firmware Version	Shows the version of firmware installed on the machine.
Engine FW Version	Shows the version of firmware for the machine engine.
PCL Version	Shows the version of the PCL interpreter.
PS Version	Shows the version of the PS interpreter.
Machine ID	Shows the identification number of the machine.
Total Memory	Shows the total memory installed on the machine.

Configuring the System Settings

Click [System Settings] to display the page for configuring the system settings.

This page contains the following tabs: [Tray Paper Settings], [B&W Print Priority] and [I/O Timeout].

Tray Paper Settings Tab

Tray 1

паут	
ltem	Description
Paper Size	Select the paper size for Tray 1 from the following: A4, B5 JIS, A5, B6 JIS, A6, 8 1/2 × 14, 8 1/2 × 11, 5 1/2 × 8 1/2, 7 1/4 × 10 1/2, 8 × 13, 8 1/2 × 13, 8 1/4 × 13, 16K, 4 1/8 × 9 1/2, 3 7/8 × 7 1/2, C5 Env, C6 Env, DL Env, Custom Size
Paper Type	Select the paper type for Tray 1 from the following: Thin Paper (60-65g/m ²), Plain Paper (66-74g/m ²), Middle Thick Paper (75-90g/m ²), Thick Paper 1 (91-105g/m ²), Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Prepunched Paper, Label Paper, Bond Paper, Cardstock, Envelope, Thick Paper 2 (106-160g/m ²)

Tray 2

ltem	Description
Paper Size	Select the paper size for Tray 2 from the following: A4, 8 1/2 × 11
Paper Type	Select the paper type for Tray 2 from the following: Thin Paper (60-65g/m ²), Plain Paper (66-74g/m ²), Middle Thick Paper (75-90g/m ²), Thick Paper 1 (91-105g/m ²), Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Prepunched Paper

Bypass Tray

ltem	Description
Paper Size	Select the paper size for the bypass tray from the following: A4, B5 JIS, A5, B6 JIS, A6, 8 1/2 × 14, 8 1/2 × 11, 5 1/2 × 8 1/2, 7 1/4 × 10 1/2, 8 × 13, 8 1/2 × 13, 8 1/4 × 13, 16K, 4 1/8 × 9 1/2, 3 7/8 × 7 1/2, C5 Env, C6 Env, DL Env, Custom Size

ltem	Description
Paper Type	Select the paper type for the bypass tray from the following:
	Thin Paper (60-65g/m ²), Plain Paper (66-74g/m ²), Middle Thick Paper (75-90g/m ²), Thick Paper 1 (91-105g/m ²), Recycled Paper, Color Paper, Letterhead, Prepunched Paper, Label Paper, Bond Paper, Cardstock, Envelope, Thick Paper 2 (106-160g/m ²)

Priority Tray

ltem	Description
Priority Tray	Select the tray that the printer uses first for printer jobs from Tray 1 or Tray 2.
	If automatic tray selection is specified for the print job and both Tray 1 and Tray 2 contain paper that matches the print job, the printer starts to print from the specified tray. If that tray runs out of paper, the printer automatically switches to the other tray to continue printing.

Tray 1 Priority

ltem	Description
Tray 1 Priority	Select how print jobs using the Tray 1 are handled.
	System Settings
	The paper settings configured on the machine's control panel are applied to all print jobs. An error occurs when the paper settings specified by the printer driver or the print command do not match the machine's settings.
	• Driver/Command
	When executing a print job specifying the paper tray, the paper settings specified in the printer driver or in the print command are applied regardless of the machine's settings.

Bypass Tray Setting Priority

ltem	Description
Bypass Tray Setting Priority	Select how print jobs using the bypass tray are handled.
	System Settings
	The paper settings configured on the machine's control panel are applied to all print jobs. An error occurs when the paper settings specified by the printer driver or the print command do not match the machine's settings.
	• Driver/Command
	When executing a print job specifying the paper tray, the paper settings specified in the printer driver or in the print command are applied regardless of the machine's settings.
	• Any Size/Type
	Printing proceeds even if the paper size/type settings of the machine and printer driver do not match, but if the paper is too small for the print job, the printed image will be cropped.
	Any Custom Size/Type
	The machine prints custom size print jobs according to the printer driver's settings and prints standard size print jobs according to the machine's settings.
	For custom size print jobs, printing proceeds even if the paper size/ type settings of the machine and printer driver do not match, but if the paper is too small for the print job, the printed image will be cropped.
	For standard size print jobs, an error will occur if the paper size/type settings of the machine and printer driver do not match.

Note

• The information about Tray 2 appears only when it is installed.

I/O Timeout Tab

I/O Timeout

ltem	Description
Fixed USB Port	Specifies whether the same printer can be used for multiple machines or not under USB connection.
	If this setting is enabled, the same printer driver you have installed in your computer can be used with any machine other than the one originally used for installation, if the machine is of the same model.
	If disabled, you must install the printer driver separately for individual machines, because the machine other than the original will be recognized as a new device upon USB connection.
Locked Print Timeout (seconds)	Specifies how many seconds the machine holds a new Locked Print file, when the machine cannot store any more Locked Print files (0 to 300 seconds). Within this time, you can print or delete the new Locked Print file.
	You can also print or delete an existing Locked Print file so that the new Locked Print file can be stored in the machine.

Vote

• [Locked Print Timeout (seconds)] appears only for the Type 2 model.

Black-and-White Print Priority Tab

B&W Print Priority

ltem	Description
B&W Print Priority	Enable this setting to suppress the consumption of color toner when printing black-and-white pages. Also, amount of color toner consumed during warm-up time for maintenance will also be lowered.

Restricting Machine Functions According to User

You can set the machine to require a user code when someone tries to use certain machine functions. For details about configuring the user restriction settings, see page 37 "Restricting Machine Functions According to User".

🔂 Important

- This function is available for the Type 2 model only.
- To print jobs that require authentication you can use only the PCL printer driver. Printing such jobs from the PostScript 3 printer driver is not possible.

Using Web Image Monitor, enable user restriction for all or some of the functions listed below, and then register users who can use those functions.

- PictBridge printing
- Printing (both color and black-and-white)
- Color printing

For each user, you can specify which functions are available upon authentication. Up to 30 users can be registered.

Note

• For details about configuring the user restriction settings, see page 37 "Restricting Machine Functions According to User".

Configuring the Network Settings

Click [Network Settings] to display the page for configuring the network settings.

This page contains the following tabs: [Network Status], [IPv6 Configuration], [Network Application], [DNS], [Auto E-mail Notification], [SNMP], [SMTP], [POP3], and [Wireless].

Coloritant 🔂

- Depending on the settings you change, the machine might need to be restarted.
- Depending on the model you are using, some items might not appear.

Network Status Tab

General Status

ltem	Description
Ethernet Speed	Shows the type and speed of the network connection.
IPP Printer Name	Shows the name used to identify the machine on the network.
Network Version	Shows the version of the machine's network module (a part of the machine firmware).
Ethernet MAC Address	Shows the Ethernet MAC address of the machine.
Active Interface	Shows the active communication method.

TCP/IP Status

ltem	Description
DHCP	Select whether the machine should receive a dynamic IPv4 address automatically using DHCP. To use DHCP, select [Active]. When enabled, the items below cannot be configured.
IP Address	Enter the IPv4 address for the machine.
Subnet Mask	Enter the subnet mask of the network.
Gateway	Enter the IPv4 address of the network gateway.

IPv6 Configuration Tab

IPv6

ltem	Description
IPv6	Select whether to enable or disable IPv6. You cannot disable IPv6 using Web Image Monitor if the machine is currently in use in an IPv6 environment. In this case, use the control panel to disable [IPv6] under network settings.
	When disabled, [DHCP], [Manual Configuration Address], [Prefix Length], and [Gateway Address] below cannot be configured.

IPv6 Address

ltem	Description
DHCP	Select whether or not the machine obtains its IPv6 address from a DHCP server.
IP Address (DHCP)	Displays the IPv6 address obtained from the DHCP server when [DHCP] is set to [Active].
Stateless Address	Displays up to four stateless auto addresses.
Gateway Address	Displays the machine's default gateway address.
Link-local Address	Displays the link local address of the machine. The link local address is an address that is valid only inside the local network (local segment).
Manual Configuration Address	Enter the machine's IPv6 address. Can contain up to 39 characters.
Prefix Length	Enter the prefix length, using a value between 0 and 128.
Gateway Address	Enter the default gateway's IPv6 address. Can contain up to 39 characters.

Network Application Tab

Network Print Setting

ltem	Description
IPP	Select to enable network printing using Internet Print Protocol (via TCP port 631/80).

ltem	Description
FTP	Select to enable network printing using an embedded FTP server in the machine (via TCP port 20/21).
RAW	Select to enable network raw printing.
Port No.	Enter the TCP port number to use for raw printing. The valid range is 1024 to 65535, except 53550 and 49999 (default is 9100).
LPR	Select to enable network printing using LPR/LPD (via TCP port 515).

mDNS Setting

ltem	Description
mDNS	Select to enable Multicast DNS (via UDP port 5353). If disabled, the item below cannot be configured.
Printer Name	Enter the name of the machine. Can contain up to 32 characters.

DNS Tab

DNS

ltem	Description
DNS Method	Select whether to specify domain name servers manually or receive DNS information from the network automatically. When set to [Auto-Obtain (DHCP)], [Primary DNS Server], [Secondary DNS Server], and [Domain Name] below become unavailable.
Primary DNS Server	Enter the IPv4 address of the primary DNS.
Secondary DNS Server	Enter the IPv4 address of the secondary DNS.
Domain Name	Enter the IPv4 domain name for the machine. Can contain up to 32 characters.
IPv6 DNS Method	Select whether to specify the domain server manually or have the machine obtain its DNS information automatically.
	When set to [Auto-Obtain (DHCP)], [Primary IPv6 DNS Server], [Secondary IPv6 DNS Server], and [IPv6 Domain Name] below become unavailable.

ltem	Description
Primary IPv6 DNS Server	Enter the IPv6 address of the primary IPv6 DNS server. Can contain up to 39 characters.
Secondary IPv6 DNS Server	Enter the IPv6 address of the secondary IPv6 DNS server. Can contain up to 39 characters.
IPv6 Domain Name	Enter the IPv6 domain name of the machine. Can contain up to 32 characters.
DNS Resolve Priority	Select whether to give priority to IPv4 or IPv6 for DNS name resolution.
DNS Timeout (seconds)	Enter the number of seconds the machine waits before considering a DNS request to have timed out (1 to 999 seconds).
Host Name	Enter a host name for the machine. Can contain up to 15 characters.

Auto E-mail Notification Tab

E-mail Notification 1/E-mail Notification 2

ltem	Description
Display Name	Enter a sender name for notification e-mail. Can contain up to 32 characters.
E-mail Address	Enter the address of the recipient of the alert email. Can contain up to 64 characters.
Paper Misfeed	Select to send an alert e-mail to the specified address if a paper jam occurs.
Out of Paper	Select to send an alert e-mail to the specified address if paper runs out.
Toner Almost Empty	Select to send an alert e-mail to the specified address if toner becomes low.
Call Service	Select to send an alert e-mail to the specified address if the machine requires servicing.
Out of Toner	Select to send an alert e-mail to the specified address if toner runs out.
Cover Open	Select to send an alert e-mail to the specified address if a cover is open.

SNMP Tab

SNMP

ltem	Description
SNMP	Select whether to enable the machine to use SNMP services.

Trap

ltem	Description
Target Trap	Select whether to enable the machine to send traps to the management host (NMS).
	When disabled, [SNMP Management Host 1] and [SNMP Management Host 2] below become unavailable.
SNMP Management Host 1	Enter the IP address or host name of a management host. Can contain up to 64 characters.
SNMP Management Host 2	Enter the IP address or host name of a management host. Can contain up to 64 characters.

Community

ltem	Description
Get Community	Enter the community name to use for authentication of Get requests. Can contain up to 32 characters.
Trap Community	Enter the community name to use for authentication of Trap requests. Can contain up to 32 characters.

System

ltem	Description
Location	Enter the location of the machine. The location entered here is displayed on the main page. Can contain up to 64 characters.
Contact	Enter the contact information of the machine. The contact information entered here is displayed on the main page. Can contain up to 64 characters.

SMTP Tab

SMTP

ltem	Description
Primary SMTP Server	Enter the IP address or host name of the SMTP/POP3 server. Can contain up to 64 characters.
Port No.	Enter the port number for SMTP (1 to 65535).
Authentication Method	Select an authentication method from the following: [Anonymous]: The user name and password are not necessary.
	[SMTP]: The machine supports NTLM and LOGIN authentication.
	[POP before SMTP]: The POP3 server is used for authentication. When sending e-mails to an SMTP server, you can enhance the SMTP server security level by connecting to the POP server for authentication.
User Name	Enter the user name for logging in to the SMTP server. Can contain up to 32 characters.
Password	Enter the password for logging in to the SMTP server. Can contain up to 32 characters.
Device E-mail Address	Enter the machine's e-mail address. This address is used as the sender's address of e-mail messages sent from this machine, such as notification e-mails. Can contain up to 64 characters.
Server Timeout (seconds)	Enter the number of seconds the machine waits before considering an SMTP operation to have timed out (1 to 999).

POP3 Tab

POP3 Settings

ltem	Description
POP3 Server	Enter the IP address or host name of the POP3 server for e-mail reception. The POP3 server specified here will be used for [POP before SMTP]. Can contain up to 64 characters.
User Account	Enter the user name for logging in to the POP3 server. Can contain up to 32 characters.

ltem	Description
User Password	Enter the password for logging in to the POP3 server. Can contain up to 32 characters.
Authentication	Select an authentication method from the following: [None]: Password will not be encrypted. [APOP Authentication]: Password will be encrypted. [Auto]: Password will be encrypted or not encrypted according to the POP3 server's settings.

Wireless Tab

Wireless LAN Status

ltem	Description
Wireless LAN Status	Displays the status of the connection to the wireless LAN.
MAC Address	Displays the MAC address.
Communication Mode	Displays the communication mode that the machine is connecting in.
SSID	Displays the SSID of the access point that the machine is connected to.
Channel	Displays the channel information of the current wireless LAN settings if [Ad- Hoc] is selected for [Communication Mode].
Wireless Signal Status	Displays the strength of the wireless signal that is being received.
Wireless	Specifies whether or not to use the wireless LAN.

Wireless LAN Settings

ltem	Description
SSID	Enter the SSID of the access point.
	The SSID can contain up to 32 characters.
	When you click [Scan List], a list of available access points is displayed. You can select the SSID from the list.

ltem	Description
Communication Mode	Select the mode to connect in. If the machine will be connected to a wireless router or access point, select [Infrastructure]. If the machine will be connected to a device equipped with a wireless LAN directly, select [Ad-Hoc].
Ad-Hoc Channel	If [Ad-Hoc] is selected for [Communication Mode], select a channel.
Authentication	Select an authentication method. If [Ad-Hoc] is selected for [Communication Mode], you can select only [Open System] and [Shared Key].
Encryption	Select an encryption method. If [Ad-Hoc] is selected for [Communication Mode], you can select only [None] and [WEP].
WPA Passphrase	If [WPA2-PSK] or [Mixed Mode WPA/WPA2] is selected for [Authentication], enter the WPA encryption key.
WEP Key Length	If [WEP] is selected for [Encryption], select 64 bits or 128 bits for the length of the encryption key.
WEP Transmit Key ID	Select an ID number to identify each WEP key in case multiple WEP connections are configured.
WEP Key Format	Select a format for entering the WEP key.
WEP Key	 Enter the WEP key. The number and type of characters you can enter vary depending on the length and format selected for the key. See the following: WEP key length: [64bit], Format: [Hexadecimal] WEP key max length: 10 characters (0-9, A-F, a-f) WEP key length: [64bit], Format: [ASCII] WEP key max length: 5 characters (0x20-0x7e) WEP key length: [128bit], Format: [Hexadecimal] WEP key max length: 26 characters (0-9, A-F, a-f) WEP key length: [128bit], Format: [ASCII] WEP key length: 128bit], Format: [ASCII] WEP key max length: 13 characters (0x20-0x7e)

• Note

• If you are configuring the connection settings manually, check the SSID, authentication method, or encryption key of the access point or wireless router in advance.

Configuring the IPsec Settings

Click [IPsec Settings] to display the page for configuring the IPsec settings.

This page contains the following tabs: [IPsec Global Settings] and [IPsec Policy List].

🔂 Important

• This function is available only when an administrator password is specified.

IPsec Global Settings Tab

ltem	Description
IPsec Function	Select whether to enable or disable IPsec.
Default Policy	Select whether to allow for the default IPsec policy.
Broadcast and Multicast Bypass	Select the services that you do not want to apply IPsec from the following: [DHCPv4], [DHCPv6], [SNMP], [mDNS], [NetBIOS], [UDP Port 53550]
All ICMP Bypass	Select whether to apply IPsec to ICMP packets (IPv4 and IPv6) from the following: [Active]: All ICMP packets will be bypassed without IPsec protection. "ping" command (echo request and echo reply) is not encapsulated by IPsec. [Inactive]: Some ICMP message types will be bypassed without IPsec protection.

IPsec Policy List Tab

ltem	Description
No.	IPsec policy number.
Name	Displays the name of the IPsec policy.
Address Settings	Displays the IP address filter of the IPsec policy as below: Remote address/Prefix length
Action	Displays the action of the IPsec policy as "Allow", "Drop", or "Require Security".

ltem	Description
Status	Displays the status of the IPsec policy as "Active" or "Inactive".

To configure IPsec policies, select the desired IPsec policy, and then click [Change] to open the "IPsec Policy Settings" page. The following settings can be made on the "IPsec Policy Settings" page.

ltem	Description
No.	Specify a number between 1 and 10 for the IPsec policy. The number you specify will determine the position of the policy in the IPsec Policy List. Policy searching is performed according to the order of the list. If the number you specify is already assigned to another policy, the policy you are configuring will take the number of the earlier policy, and the earlier policy and any subsequent policies will be renumbered accordingly.
Activity	Select whether to enable or disable the policy.
Name	Enter the name of the policy. Can contain up to 16 characters.
Address Type	Select IPv4 or IPv6 as the type of IP address to be used in IPsec communication.
Local Address	Displays the IP address of this printer.
Remote Address	Enter the IPv4 or IPv6 address of the device with which to communicate. Can contain up to 39 characters.
Prefix Length	Enter the prefix length of the Remote Address, using a value between 1 and 128. If this setting is left blank, "32" (IPv4) or "128" (IPv6) will be automatically selected.
Action	Specify how the IP packets are processed from the following:
	• [Allow]: IP packets are both sent and received without IPsec applied to them.
	• [Drop]: IP packets are discarded.
	• [Require Security]: IPsec is applied to IP packets that are both sent and received.
	If you have selected [Require Security], you must configure [IPsec Settings] and [IKE Settings].

IP Policy Settings

IPsec Settings

ltem	Description
Encapsulation Type	Specify the encapsulation type from the following:
	 [Transport]: Select this mode to secure only the payload section of each IP packet when communicating with IPsec compliant devices.
	 [Tunnel]: Select this mode to secure every section of each IP packet. We recommend this type for communication between security gateways (such as VPN devices).
Security Protocol	Select the security protocol from the following:
	• [AH]: Establishes secure communication that supports authentication only.
	• [ESP]: Establishes secure communication that supports both authentication and data encryption.
	 [ESP&AH]: Establishes secure communication that supports both data encryption and authentication of packets, including packet headers. Note that you cannot specify this protocol when [Tunnel] is selected for [Encapsulation Type].
Authentication Algorithm for AH	Specify the authentication algorithm to be applied when [AH] or [ESP&AH] is selected for [Security Protocol] from the following: [MD5], [SHA1]
Encryption Algorithm for ESP	Specify the encryption algorithm to be applied when [ESP] or [ESP&AH] is selected for [Security Protocol] from the following:
	[None], [DES], [3DES], [AES-128], [AES-192], [AES-256]
Authentication Algorithm for ESP	Specify the authentication algorithm to be applied when [ESP] is selected for [Security Protocol] from the following: [MD5], [SHA1]
Life Time	Specify the life time of the IPsec SA (Security Association) as a time period or data volume. The SA will expire when the time period you specify elapses or the volume of data you specify reaches the volume carried.
	If you specify both a time period and a data volume, the SA will expire as soon as either is reached, and a new SA will then be obtained by negotiation.
	To specify the life time of the SA as a time period, enter a number of seconds.
	To specify the life time of the SA as a data volume, enter a number of KBs.

ltem	Description
Key Perfect Forward Secrecy	Select whether to enable or disable PFS (Perfect Forward Secrecy).

IKE Settings

ltem	Description
IKE Version	Displays the IKE version.
Encryption Algorithm	Specify the encryption algorithm from the following: [DES], [3DES], [AES-128], [AES-192], [AES-256]
Authentication Algorithm	Specify the authentication algorithm from the following: [MD5], [SHA1]
IKE Life Time	Specify the life time of the ISAKMP SA as a time period. Enter a number of seconds.
IKE Diffie-Hellman Group	Select the IKE Diffie-Hellman Group to be used in the generation of the IKE encryption key from the following: [DH1], [DH2]
Pre-Shared Key	Specify the PSK (Pre-Shared Key) to be used for authentication of a communicating device. Can contain up to 32 characters.
Key Perfect Forward Secrecy	Select whether to enable or disable PFS (Perfect Forward Secrecy).

Printing Lists/Reports

Click [Print List/Report] to display the page for printing reports. Then, select an item and click [Print] to print out information for that item.

Print List/Report

ltem	Description
Configuration Page	Prints general information about the machine and its current configuration.
Test Page	Prints a test page for checking the printing condition.
PCL Font List	Prints the current configuration and installed PCL font list.
PS Font List	Prints the current configuration and installed PostScript font list.
Maintenance Page	Prints the maintenance page.

Note

- Reports cannot be printed via Web Image Monitor if other jobs are printing. Before printing reports, confirm that machine is not printing.
- Reports will be printed on A4 or Letter size paper. Load one of these sizes of paper into the tray before printing reports.

Configuring the Administrator Settings

Click [Administrator Tools] to display the page for configuring the administrator settings.

This page contains the following tabs: [Administrator], [Reset Settings], [Backup Setting], [Restore Setting], [Energy Saver Mode], and [PCL6 Mode].

Administrator Tab

Administrator Settings

ltem	Description
New Password	Enter the new administrator password. Can contain up to 16 characters.
Confirm New Password	Enter the same password again, to confirm.

Reset Settings Tab

Reset Settings

ltem	Description
Reset Network Settings	Select to restore settings configured under the [Network Settings] and [Administrator Tools].
Reset Menu Settings	Select to restore settings that are not related to the network to their defaults.
Reset Settings of Available Functions	Select to clear the user restriction settings.
Reset IPsec Settings	Select to clear the IPsec settings.

Vote

• [Reset IPsec Settings] appears only when the administrator password is specified.

Backup Setting Tab

😭 Important

• When sending the machine for repair, it is important that you create backup files in advance. The machine's settings are returned to the default after repair.

Backup Setting

ltem	Description
Back up Network Settings	Backs up settings configured under the [Network Settings] and [Administrator Tools].
Back up Menu Settings	Backs up settings that are not related to the network.
Back up Settings of Available Functions	Backs up user restriction settings to a file.
Back up IPsec Settings	Backs up the IPsec settings to a file.

Follow the procedure below to create configuration backup files.

- 1. Select the radio button for the type of data you wish to back up.
- 2. Enter the administrator password if required.
- 3. Click [OK].
- 4. Click [Save] in the confirmation dialog box.
- 5. Navigate to the location to save the backup file.
- 6. Specify a name for the file, and click [Save].

\rm Note

• [Back up IPsec Settings] appears only when the administrator password is specified.

Restore Setting Tab

🔁 Important

• When the machine is returned from repair, it is important that you restore the machine's settings from the backup files. The machine's settings are returned to the default after repair.

Restore Setting

ltem	Description
File to Restore	Enter the path and name of the file to restore, or click [Browse] to select the file.

Follow the procedure below to restore configuration backup files.

- 1. Click [Browse...].
- 2. Navigate to the directory containing the backup file to restore.
- 3. Select the backup file, and click [Open].

- 4. Enter the administrator password if required.
- 5. Click [OK].
- Vote
 - If the settings are not restored successfully, an error message appears. Try again to restore the file completely.

Energy Saver Mode Tab

Energy Saver Mode

ltem	Description
Energy Saver Mode 1	Select [Active] to set the machine to enter Energy Saver mode 1 if the machine has been idle for about 30 seconds.
	It takes less time to recover from Energy Saver mode 1 than from power-off state or Energy Saver mode 2, but power consumption is higher in Energy Saver mode 1 than in Energy Saver mode 2.
Energy Saver Mode 2	Select [Active] to set the machine to enter Energy Saver mode 2 after the period of time specified for [Waiting Time (1 min 240 min.)] is passed (1 to 240 minutes).
	The machine consumes less power in Energy Saver mode 2 than in Energy Saver mode 1, but it takes longer to recover from Energy Saver mode 2 than from Energy Saver mode 1.

Vote

• The printer recovers from Energy Saver mode when it receives a print job or when any key on the machine is pressed.

PCL6 Mode

PCL6 Mode

ltem	Description
PCL6 Mode	Set this to [Universal] when using the Universal Driver and to [SP C250/C252] when using the normal driver.

6. Maintaining the Machine

Replacing the Print Cartridge

🔁 Important

- Store print cartridge in a cool dark place.
- Actual printable numbers vary depending on image volume and density, number of pages printed at a time, paper type and size, and environmental conditions such as temperature and humidity. Toner quality degrades over time. Early replacement of the print cartridge might be necessary. Therefore, we recommend you always keep a new print cartridge ready.
- For good print quality, the manufacturer recommends that you use genuine toner from the manufacturer.
- The manufacturer shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the manufacturer with your office products.
- When the toner runs out, pressing the [Stop/Start] key allows you to print a few more pages, but the print quality of those pages may be lower.

Messages on the screen

 Replace the indicated print cartridge when any of the following messages appear on the screen:

"Replace Toner:" (X)

("X" indicates the toner color)

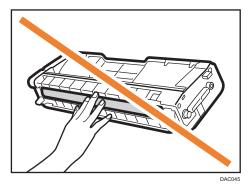
Prepare the indicated print cartridge when any of the following messages appear on the screen:

"Repl Tnr soon:" (X)

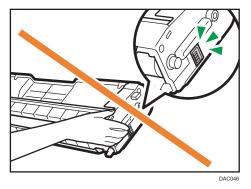
("X" indicates the toner color)

Comportant 🗋

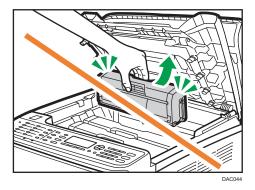
- Do not allow paper clips, staples, or other small objects to fall inside the machine.
- Do not expose the print cartridge without its cover to direct sunlight for a long time.
- Do not touch the print cartridge's photo conductor unit.



• Do not touch the ID chip on the side of the print cartridge as shown below.

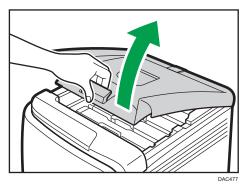


• When removing print cartridges, be careful not to touch the laser scanning unit under the upper cover (the position shown by the arrow in the illustration below).



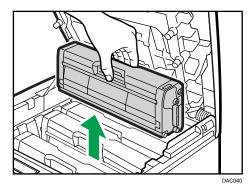
- If cyan, magenta, or yellow toner runs out, you can print in black and white using just the black toner. Change the color mode setting to Black and White using the machine's driver.
- If black toner runs out, you cannot print in black and white or color until the black print cartridge is replaced.

1. Pull up the lever on the top cover, and then carefully raise the top cover.

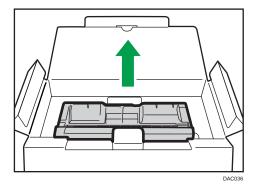


2. Carefully lift out the print cartridge vertically, holding its center.

From the rear, the print cartridges are installed in the order of cyan (C), magenta (M), yellow (Y), and black (K).

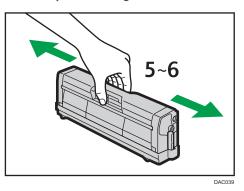


- Do not shake the removed print cartridge. Doing so can cause remaining toner to leak.
- Place the old print cartridge on paper or similar material to avoid dirtying your workspace.
- The toner color is indicated by the label on each print cartridge.
- 3. Take the new print cartridge out of the box, and then take it out of the plastic bag.



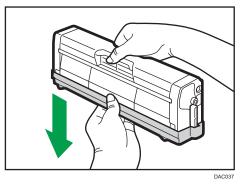
6

4. Hold the print cartridge and shake it from side to side five or six times.

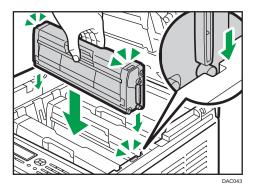


Even distribution of toner within the bottle improves print quality.

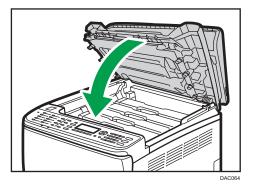
5. Remove the protective cover from the print cartridge.



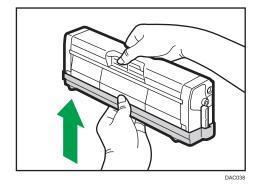
6. Check the toner color and corresponding location, and then carefully insert the print cartridge vertically.



7. Using both hands, hold the center of the top cover and close the cover carefully. Be careful not to trap your fingers.



8. Attach the protective cover you removed in Step 5 on the old print cartridge. Then, put the old print cartridge into the bag, and then put it into the box.



Note

- Make sure to cover the old print cartridge with the protective cover for recycling and environmental purposes.
- Comply with the print cartridge recycling program, whereby used print cartridges are collected for processing. For details, ask your sales or service representative.

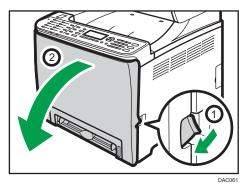
Replacing the Waste Toner Bottle

Messages on the screen

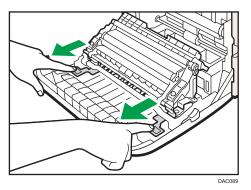
- Replace the waste toner bottle when the following message appears on the screen: "Replace Waste Toner Bottle"
- Prepare a waste toner bottle when the following message appears on the screen: "Almost Full Waste Toner Bottle"

C Important

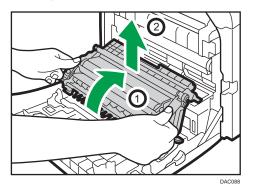
- Waste toner bottles cannot be reused.
- For easy replacement, we recommend you purchase and store extra waste toner bottles.
- When removing the waste toner bottle, make sure not to tilt it.
- Make sure the transfer unit is installed. If the transfer unit is not installed, install it before turning on the power.
- Comply with the waste toner bottle recycling program, whereby used waste toner bottles are collected for processing. For details, ask your sales or service representative.
- Before removing the waste toner bottle from the machine, spread paper or similar material around the area to keep toner from dirtying your workspace.
- 1. Pull the front cover open lever and then carefully lower the front cover.



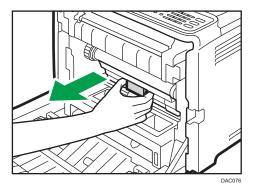
2. Slide both levers on the front cover forward.

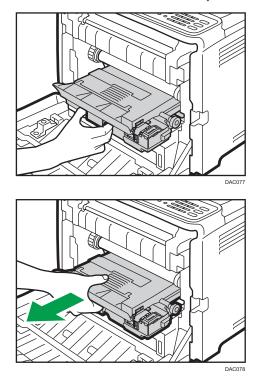


3. Holding the tabs on both ends of the transfer unit, tilt it backwards and lift it up.



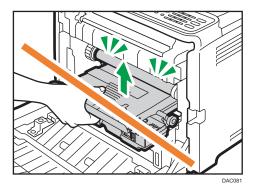
4. Holding the handle at the center of the waste toner bottle, carefully pull it partially out without tilting it.



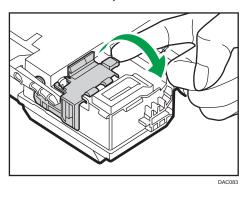


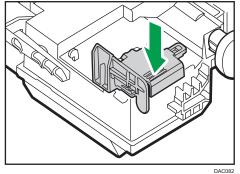
5. Pull the waste toner bottle halfway out, hold the bottle firmly, and then pull it straight out.

To prevent the waste toner bottle from coming into contact with the intermediate transfer unit (the position shown by the arrow in the illustration below), do not lift the bottle while pulling it out.



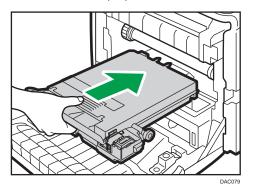
6. Close the bottle cap.



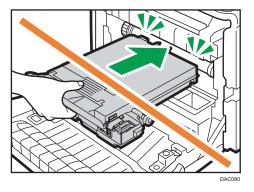


7. Holding the center of the new waste toner bottle, carefully insert it halfway into the machine body.

Leave the bottle cap open.

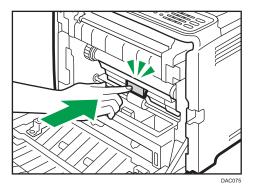


To prevent the waste toner bottle from coming into contact with the intermediate transfer unit (the position shown by the arrow in the illustration below), do not lift the bottle while inserting it.

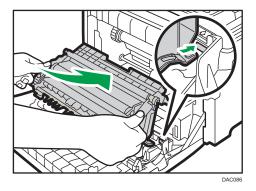


8. Push in the waste toner bottle until it clicks.

Pressing the handle at the center, push the bottle all the way in.

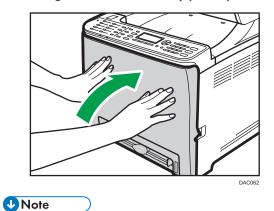


9. Place the transfer unit on the front cover. Slide the transfer unit along the guide rails into the machine.



- DC07
- 10. When it stops, push on the PUSH mark until it clicks.

11. Using both hands, carefully push up the front cover until it closes.



• When closing the front cover, push the upper area of the cover firmly.

Replacing a Component

Replacing the Intermediate Transfer Unit

Coloritant 🖸

• This function is available for the Type 2 model only.

If the Alert indicator on the control panel lights up and the "Replace Intermdt Transfer Belt" message appears on the display, contact your sales or service representative.

Replacing the Fusing Unit and Transfer Roller

🔂 Important

• This function is available for the Type 2 model only.

If the Alert indicator on the control panel lights up and the "Replace Fusing Unit" or "Replace Transfer Roller" message appears on the display, contact your sales or service representative.

Cautions When Cleaning

Clean the machine periodically to maintain high print quality.

Dry wipe the exterior with a soft cloth. If it is not sufficient, wipe with a soft, damp cloth that has been wrung out thoroughly. If you still cannot remove the stain or grime, use a neutral detergent, wipe over the area with a thoroughly-wrung damp cloth, and then dry wipe the area and allow it to dry.

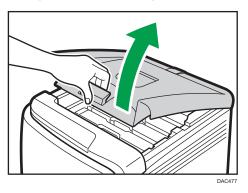
Coloritant 🔁

- To avoid deformation, discoloration, or cracking, do not use volatile chemicals, such as benzine and thinner, or spray insecticide on the machine.
- If there is dust or grime inside the machine, wipe with a clean, dry cloth.
- Disconnect the plug from the wall outlet at least once a year. Clean away any dust and grime from the plug and outlet before reconnecting. Accumulated dust and grime may cause fire.
- Do not allow paper clips, staples, or other small objects to fall inside the machine.

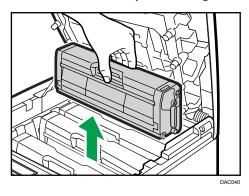
Cleaning the Toner Density Sensor

Clean the toner density sensor when the following message appears on the control panel. "Density Sensor Require Cleaning"

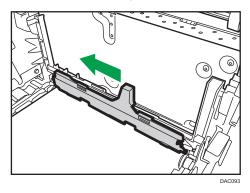
1. Pull up the lever on the top cover, and then carefully raise the top cover.



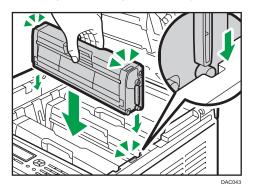
2. Remove the rearmost print cartridge.



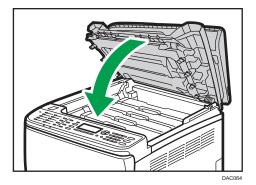
3. Slide the toner density sensor lever once to the left.



4. Carefully insert the print cartridge removed in Step 2 vertically.



5. Using both hands, hold the center of the top cover and close the cover carefully. Be careful not to trap your fingers.

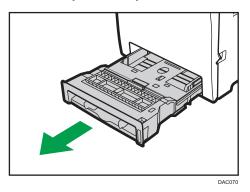


Cleaning the Friction Pad and Paper Feed Roller

If the friction pad or paper feed roller is dirty, a multi-feed or misfeed might occur. In this case, clean the friction pad and paper feed roller as follows:

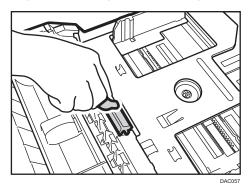
🔂 Important

- Do not use chemical cleaning fluids or organic solvents such as thinner or benzine.
- 1. Turn off the power.
- 2. Unplug the power cord from the wall outlet. Remove all the cables from the machine.
- 3. Pull out Tray 1 carefully with both hands.

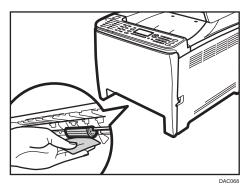


Place the tray on a flat surface. If there is paper in the tray, remove it.

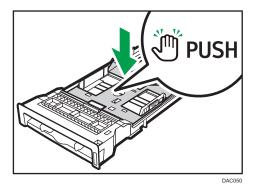
4. Wipe the friction pad with a damp cloth.



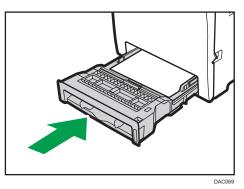
5. Wipe the rubber part of the roller with a soft damp cloth. After that, wipe it with a dry cloth to remove the moisture.



6. Push the metal plate down until it clicks.



7. Reload the removed paper into the tray, and then push the tray carefully into the machine until it clicks.



- 8. Insert the plug of the power cord into the wall socket securely. Connect all the cables that were removed.
- 9. Turn on the power.

6

Vote

- paper jam or multi-sheet feed still occurs after cleaning the friction pad, contact your sales or service representative.
- If the optional Tray 2 is installed, clean its friction pad and paper feed roller in the same way as you did for Tray 1.

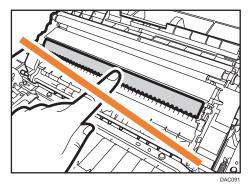
Cleaning the Registration Roller and Paper Tray

The registration roller and paper tray can become dirty with paper dust if you print to non-standard paper.

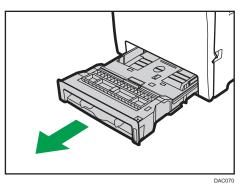
Clean the registration roller if white dots appear on prints.

🔂 Important

- Do not use chemical cleaning fluids or organic solvents such as thinner or benzine.
- Do not touch the transfer roller (as shown below).

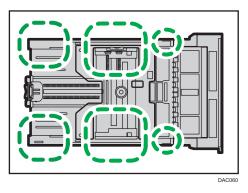


- 1. Turn off the power.
- 2. Unplug the power cord from the wall outlet. Remove all the cables from the machine.
- 3. Pull out Tray 1 carefully with both hands.

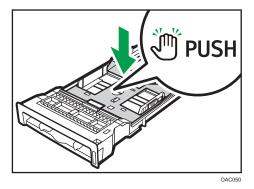


Place the tray on a flat surface. If there is paper in the tray, remove it.

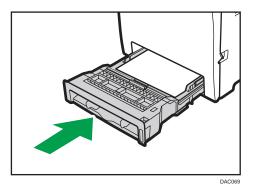
4. Wipe the inside of the paper tray with a cloth.

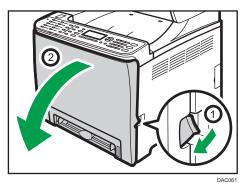


5. Push the metal plate down until it clicks.



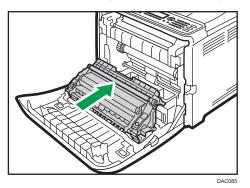
6. Reload the removed paper into the tray, and then push the tray carefully into the machine until it clicks.





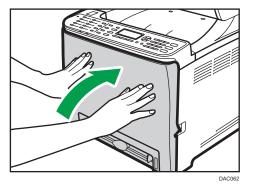
7. Pull the front cover open lever and then carefully lower the front cover.

Be sure to set the registration roller in the position shown by the arrow in the illustration below.



Clean the registration roller if prints are smeared after a paper jam is cleared.

- 8. Clean the registration roller by applying a soft damp cloth while turning it.
- 9. Using both hands, carefully push up the front cover until it closes.



- 10. Plug in the power cord securely. Connect all the cables that were removed.
- 11. Turn on the power.

✓Note

• When closing the front cover, push the upper area of the cover firmly.

Removing Paper Jams

If a paper jam occurs, one of the following messages appears on the control panel:

Message	Reference title
Internal Misfeed	See page 152 "If paper jams inside the fusing
Misfd: Stnd Tray	unit".
Misfeed: PprTray	See page 154 "If paper jams inside a tray".
Misfeed: Tray 1	
Misfeed: Tray 2	
Misfd: Dupl Unit	See page 156 "If paper jams inside the transfer unit".

See the section identified by the message and remove the jammed paper accordingly.

Removing Printing Jams

- The inside of this machine becomes very hot. Do not touch the parts labeled "⁽⁾" (indicating a hot surface).
- Some of this machine's internal components get very hot. For this reason, take care when removing misfed paper. Not doing so could result in burns.

🔁 Important

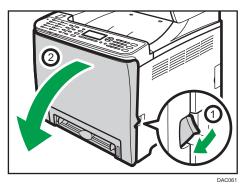
- Jammed paper may be covered in toner. Be careful not to get toner on your hands or clothes.
- Toner on prints made immediately after clearing a paper jam may be insufficiently fused and may smudge. Make test prints until smudges no longer appear.
- Do not forcefully remove jammed paper, as it may tear. Torn pieces remaining inside the machine will cause further jams and possibly damage the machine.
- Paper jam can cause pages to be lost. Check your print job for missing pages and reprint any
 pages that did not print out.

If paper jams inside the fusing unit

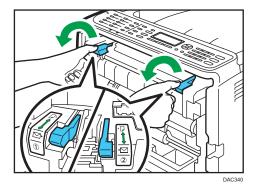
If paper jams inside the fusing unit, follow the procedure below to remove it.

C Important

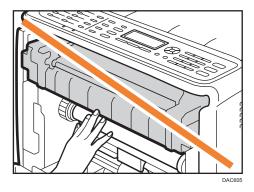
- Since the temperature around the guide is high, wait for it to cool down before checking for jammed paper.
- 1. Pull the front cover open lever and then carefully lower the front cover.



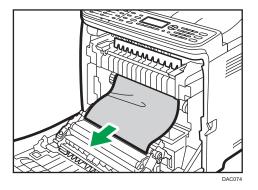
2. Lower the fusing unit lever, and pull out the jammed paper carefully.



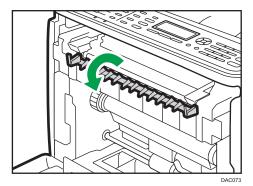
Do not touch the fusing unit.



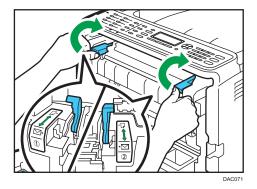
Pull the paper downward to remove it. Do not pull it upward.



If you cannot find the jammed paper, check for it by pulling down the guide.



3. Pull up the fusing unit levers.



- DACES
- 4. Using both hands, carefully push up the front cover until it closes.

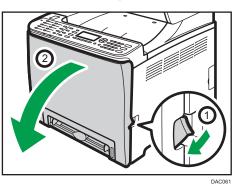
Note

• When closing the front cover, push the upper area of the cover firmly. After closing the cover, check that the error is cleared.

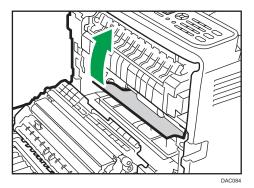
If paper jams inside a tray

If paper jams in Tray 1 or 2, follow the procedure below to remove it.

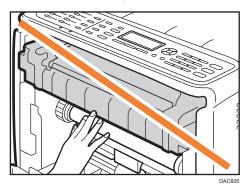
1. Pull the front cover open lever and then carefully lower the front cover.



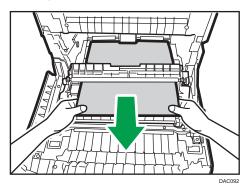
2. Pull out the jammed paper carefully.



Do not touch the fusing unit.



If paper has jammed inside the transfer unit, holding both sides of the paper, pull the paper carefully forward and out.



3. Using both hands, carefully push up the front cover until it closes.



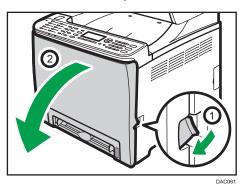
• Note

- Do not pull out the paper tray (Tray 1).
- If paper is jammed in Tray 2 but is difficult to locate, pull out Tray 2 to remove it. After removing the paper, carefully push Tray 2 all the way back inside the machine.
- When closing the front cover, push the upper area of the cover firmly. After closing the cover, check that the error is cleared.

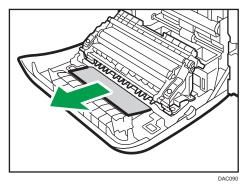
If paper jams inside the transfer unit

If paper jams inside the transfer unit, follow the procedure below to remove it.

1. Pull the front cover open lever and then carefully lower the front cover.



2. Carefully remove any paper that is jammed under the transfer unit.



If you cannot find the jammed paper, look inside the machine.

3. Using both hands, carefully push up the front cover until it closes.



Vote

• When closing the front cover, push the upper area of the cover firmly. After closing the cover, check that the error is cleared.

Common Problems

This section explains how to troubleshoot common problems that may occur while operating the machine.

Problem	Possible cause	Solution
The machine does not turn on.	The power cord is not connected properly.	 Make sure that the power plug is firmly inserted into the wall outlet. Make sure that the wall outlet is not defective by connecting another working device.
An error message appears on the machine's screen.	An error has occurred.	See page 172 "Error & Status Messages on the Control Panel".
The red indicator is lit.	An error has occurred.	See page 176 "Panel Indicator".
Pages are not printed.	The machine is warming up or receiving data.	Wait until "Printing" appears on the screen. If "Processing" is displayed on the screen, the machine is receiving data.
Pages are not printed.	The interface cable is not connected correctly.	Reconnect the cable.Check that the interface cable is the correct type.
Strange noise is heard.	 The supplies or options are not properly installed. The machine executes periodic cleaning of the interior when [Auto Cleaning] in [System] is set to [On]. 	Check if the supplies or options are properly installed. The noise does not indicate a malfunction. Wait until the cleaning is complete.

Vote

• If any of these problems persist, turn off the power, pull out the power cord, and contact your sales or service representative.

Paper Feed Problems

If the machine is operating but paper will not feed or paper jams frequently, check the condition of the machine and paper.

Problem	Solution
Paper does not feed smoothly.	 Use supported types of paper. See page 41 "Supported Paper".
	 Load paper correctly, making sure that the paper guides are properly adjusted. See page 54 "Loading Paper".
	• If the paper is curled, straighten the paper.
	 Take out the paper from the tray and fan it well. Then, reverse the top and bottom of the paper, and put it back in the tray.
Paper jams frequently.	 If there are gaps between the paper and paper guides, adjust the paper guides to remove the gaps.
	 Avoid printing on both sides of paper when printing images that contain large solid areas, which consume a large amount of toner.
	 Use supported types of paper. See page 41 "Supported Paper".
	 Load paper only as high as the upper limit markings on the paper guide.
	 Make sure that the friction pads, paper feed rollers or registration rollers are clean. See page 144 "Cleaning the Friction Pad and Paper Feed Roller".

Problem	Solution
Multiple sheets of paper are fed at once.	 Fan the paper well before loading. Also make sure that the edges are aligned by tapping the stack on a flat surface such as a desk.
	• Make sure that the paper guides are in the right position.
	 Use supported types of paper. See page 41 "Supported Paper".
	 Load paper only as high as the upper limit markings on the paper guide.
	 Make sure that the friction pads, paper feed rollers or registration rollers are clean. See page 144 "Cleaning the Friction Pad and Paper Feed Roller" and page 147 "Cleaning the Registration Roller and Paper Tray".
	 Check that paper was not added while there was still some left in the tray.
	Only add paper when there is none left in the tray.
The printed paper is wrinkled.	 The paper being used may be damp. Use paper that has been stored properly. See page 41 "Supported Paper".
	• Paper is too thin. See page 41 "Supported Paper".
	 If there are gaps between the paper and the paper guides, adjust the paper guides to remove the gaps.
	 Check that both the left and right fusing unit levers have been raised to the plain paper mark.
The printed paper is curled.	• Load the paper upside down in the paper tray.
	 If the paper curl is severe, retrieve prints from the output tray more frequently.
	 The paper being used may be damp. Use paper that has been stored properly. See page 41 "Supported Paper".
	 Select [Level 2] or [Level 3] in [Anti-Humid Lvl] under [Maintenance]. Note that if you select [Level 2] or [Level 3], the first print takes longer than subsequent prints.

Problem	Solution
Images are not printed in the right position	 Adjust the front end paper guide and both side paper guides to match the paper size.
R BACEGO	See page 54 "Loading Paper".
Images are printed diagonally to the pages.	If there are gaps between the paper and the paper guides, adjust the paper guides to remove the gaps.
R DAC572	

Print Quality Problems

Checking the Condition of the Machine

If there is a problem with the print quality, first check the condition of the machine.

Problem	Solution
There is a problem with the machine's location.	Make sure that the machine is on a level surface. Place the machine where it will not be subject to vibration or shock.
Unsupported types of paper is used.	Make sure that the paper being used is supported by the machine. See page 41 "Supported Paper".
The paper type setting is incorrect.	Make sure that the paper type setting of the printer driver matches the type of paper loaded. See page 41 "Supported Paper".
A non-genuine print cartridge is being used.	Refilled or non-genuine print cartridge reduces print quality and may cause malfunctions. Use genuine print cartridge only. See page 187 "Consumables".
An old print cartridge is being used.	Print cartridge should be opened before their expiration date and used within six months after being opened.
The machine is dirty.	See page 129 "Maintaining the Machine", and clean the machine as required.
Color degradation has occurred.	Color degradation may occur in color printing after the machine is moved or a large number of pages are printed. In this case, adjust color registration by executing [Color Dens/ Reg] in [Maintenance].

Checking the printer driver settings

Problem	Solution
The printed image is smudged.	PCL 5c/6
	On the printer driver's [Paper] tab, select [Bypass Tray] in the "Input Tray:" list. In the "Paper Type:" list, select a proper paper type.
	PostScript 3
	On the printer driver's [Paper/Quality] tab, select [Bypass Tray] in the "Paper Source" list. In the "Media" list, select a proper paper type.
Images smudge when rubbed.	PCL 5c/6
(Toner is not fixed.)	On the printer driver's [Paper] tab, select a proper paper type in the "Paper Type:" list.
	PostScript 3
	On the printer driver's [Paper/Quality] tab, select a proper paper type in the "Media" list.
The printed image is different from	Only when using PCL 5c/6
the image on the computer's display.	On the printer driver's [Print Quality] tab, select [Raster] in the "Graphics Mode" list.
When printing graphics, the output and the screen are different.	To print accurately, specify the printer driver setting to print without using the graphics command. For details about specifying the printer driver setting, see the printer driver Help.
Images are cut off, or excess is printed.	Use the same size paper selected in the application. If you cannot load paper of the correct size, use the reduction function to reduce the image, and then print. For details about the reduction function, see the printer driver Help.
Photo images are coarse.	Use the application's or printer driver's settings to specify a higher resolution.
	For details about the printer driver's settings, see the printer driver Help.
A solid line is printed as a dashed line or appears blurred.	Change the dithering settings on the printer driver. For details about the dithering settings, see the printer driver Help.

Problem	Solution
Fine lines are fuzzy, of inconsistent thickness, or do not appear.	Change the dithering settings on the printer driver. For details about the dithering settings, see the printer driver Help.
	If the problem persists, specify the settings of the application in which the image was created to change the thickness of the lines.

Printer Problems

This section describes printing problems and possible solutions.

When You Cannot Print Properly

Problem	Solution
An error occurs.	If an error occurs when printing, change the computer or printer driver settings.
	 Check the printer icon name does not exceed 32 alphanumeric characters. If it does, shorten it.
	Check whether other applications are operating.
	Close any other applications, as they may be interfering with printing. If the problem is not resolved, close unneeded processes too.
	• Check that the latest printer driver is being used.
A Locked Print file is canceled.	• The machine already has 5 jobs or 5 MB of Locked Print data. Print or delete an existing Locked Print file. For details, see page 69 "Printing Confidential Documents".
	• Even if the machine cannot store any more Locked Print files, the machine holds the new Locked Print file for the period of time specified in [Timeout:LockPrt] under [Host Interface] before canceling that file. Within this time, you can print or delete the new Locked Print file. You can also print or delete an existing Locked Print file so that the new Locked Print file can be stored in the machine.
	For details about [Timeout:LockPrt], see page 92 "Host Interface Menu".
	Only when using PCL 5c/6
	The Locked Print file has too many pages or it is too large. Reduce the number of pages to print, or print with a lower setting for [Gradation:] in [Print Quality]. For details, see the printer driver Help.

Problem	Solution
There is a considerable delay between the print start command and actual printing.	 Processing time depends on data volume. High volume data, such as graphics-heavy documents, take longer to be processed.
	 To speed up printing, reduce the printing resolution using the printer driver. For details, see the printer driver Help. The machine is calibrating color. Wait for a while.
Documents are not printed properly when using a certain application, or image data is not printed properly. Some characters are printed faintly or not printed.	Change the print quality settings.
It takes too long to complete the print job.	 Photographs and other data intensive pages take a long time to be processed so simply wait when printing such data.
	 Changing the settings with printer driver may help to speed up printing.
	See the printer driver Help.
	 The data is so large or complex that it takes a long time to be processed.
	 If the Data In indicator is flashing, the data is being processed.
	Just wait until it printing is resumed.
	 If the Data In indicator on the control panel is flashing, the printer is warming up. Wait for a while.
	 The printer is adjusting the color registration. Wait for a while.
A printed image is different from the image on the computer's display.	• When you use some functions, such as enlargement and reduction, the layout of the image might be different from that displayed in the computer display.
	 Check that the page layout settings are properly configured in the application.
	 Make sure the paper size selected in the printer properties dialog box matches the size of the paper loaded. For details, see the printer driver Help.

Problem	Solution
Images are cut off, or excess pages are printed.	If you are using paper whose size is smaller than the paper size selected in the application, use the same size paper selected in the application. If you cannot load paper of the correct size, use the reduction function to reduce the image, and then print. See the printer driver Help.
The color of the printout is different from the color on the computer's display.	 The colors made using color toner may be different from colors displayed on the display due to the difference of methods to reproduce colors.
	Only when using PCL 5c/6
	 Color gradation might appear differently if [On] is selected for [Economy Color] on the [Print Quality] tab in the printer driver's dialog box.
	See the printer driver Help.
	 Turn off the main power, and then turn it back on. If the color still appears different on the printout, perform the [Color Dens/Reg] under [Maintenance]. For details, see page 88 "Maintenance Menu".
	If this procedure fails to resolve the problem, contact your sales or service representative.
Color changes extremely when	Only when using PCL 5c/6
adjusted with the printer driver.	Do not make extreme settings for the color balance under the [Print Quality] tab in the printer driver's dialog box. See the printer driver Help.
Color documents are printed in black and white.	 The printer driver is not set up for color printing. See the printer driver Help. Some applications print color files in black and white.

When You Cannot Print Clearly

Problem	Solution
The whole printout is blurred.	 The paper being used may be damp. Use paper that has been stored properly. See page 41 "Supported Paper". Select [Level 2] or [Level 3] in [Anti-Humid Lvl] under [Maintenance]. Note that if you select [Level 2] or [Level 3], the first print takes longer than subsequent prints. If you select [On] for [Economy Color] in the [Print Quality] tab (PCL printer driver) or under [Printer Features] (PostScript 3 printer driver), print will be at lower density. For details, see the printer driver Help. The print cartridge is almost empty. If "Replace Toner: X" ("X" indicates the toner color) appears on the screen, replace the indicated print cartridge. Condensation may have occurred. If rapid change in temperature or humidity occurs, use this machine only after it has acclimatized.
The toner is powdery and comes away from the paper, or the printed image has a matt appearance.	Check if the fusing unit levers are properly set. Pull up the fusing unit levers.
Toner smears appear on the print side of the page.	 The paper setting may not be correct. For example, although you are using thick paper, the setting for thick paper may not be specified.
	Check the printer driver's paper settings.
	See the printer driver Help.
	• Check that the paper is not curled or bent. Envelopes can be curled easily. Flatten out the paper before loading it.
	See page 54 "Loading Paper".

Problem	Solution	
White lines appear.	The intermediate transfer belt is dirty.	
▲	Follow the procedure below to clean the belt:	
	1. Open the top cover while the power is on.	
	2. Remove all print cartridges from the printer.	
	3. Close the top cover with both hands carefully.	
DAC607	 When cleaning finishes, open the top cover and attach all the print cartridges again. 	
	If this procedure does not resolve the problem, contact your sales or service representative.	
Horizontal lines appear on the printed paper.	 Impact can cause lines to appear on printed paper and other malfunctions. 	
	Protect the printer from impact at all times, especially while it is printing.	
	 If lines appear on prints, turn the printer off, wait a few moments, and then turn it back on again. Then, perform the print job again. 	
The print color is different from the color specified.	If a specific color is missing, turn the power switch off and on. If this does not resolve the problem, contact your sales or service representative.	
Photo images are coarse.	Some applications lower the resolution for making prints.	
A color is missing or a printed image is partially blurred.	 The paper being used may be damp. Use paper that has been stored properly. 	
	See page 54 "Loading Paper".	
	 Toner is almost empty. If the following message appears on the control panel, replace the print cartridge: "Replace Toner: X". ("X" indicates the toner color) 	
	See page 129 "Replacing the Print Cartridge".	
	 Condensation may have occurred. If rapid change in temperature or humidity occurs, use this printer only after it has acclimatized. 	
Color shift occurs.	Perform the [Color Dens/Reg] under [Maintenance].	
	For details, see page 88 "Maintenance Menu".	

Problem	Solution	
White spots appear.	The surrounding registration roller or paper tray can become dirty with paper dust if you use paper other than standard paper.	
	Wipe any paper dust off both the paper tray and registration roller.	
	See page 147 "Cleaning the Registration Roller and Paper Tray".	
Colorless dots appear on solid color printouts.	Change the paper type currently selected in the Paper Type settings, and then print.	
	Eg. [Recycled Paper] to [Thin Paper] to [Plain Paper]. See page 54 "Loading Paper".	
White streaks or color streaks appear.	Toner is almost empty. If an error message appears on the control panel, replace the print cartridge of the color indicated.	
	See page 129 "Replacing the Print Cartridge".	
The backs of printed sheets are blemished.	• When removing a jammed sheet, the inside of the printer may have become dirty. Print several sheets until they come out clean.	
	 If document size is larger than paper size, e.g. A4 document on B5 paper, the back of the next printed sheet may become dirty. 	
The Data In indicator is not flashing or lit.	If the Data In indicator is not flashing or lit, the data is not being sent to the printer.	
	If the printer is connected to the computer using the interface cable.	
	Check the port connection setting is correct.	
	Network Connection	
	Contact your network administrator.	
Black gradation is not natural.	Only when using PostScript 3	
	Select [CMY + K] for [Gray Reproduction] in the printer driver's dialog box.	
	See the printer driver Help.	

Problem	Solution	
Solid lines are printed as broken	Only when using PostScript 3	
lines.	Change the [Dithering] setting in the printer driver's dialog box.	
	See the printer driver Help.	
Fine dot patterns do not print.	Only when using PostScript 3	
	Change the [Dithering] setting in the printer driver's dialog box.	
	See the printer driver Help.	
Solid areas, lines or text are shiny or	Only when using PostScript 3	
glossy when created as a mixture of cyan, magenta, yellow.	Select [Black by K] for [Gray Reproduction] in the printer driver's dialog box.	
	See the printer driver Help.	
Speckling occurs in areas of solid	Only when using PostScript 3	
black print.	Select [CMY + K] for [Gray Reproduction] in the printer driver's dialog box.	
	See the printer driver Help.	
If rubbed with your finger, the print smears.	The setting of the paper may not be correct. For example, although thick paper is used, the setting for thick paper may not be specified.	
	• Check the paper settings of this printer.	
	See page 54 "Loading Paper".	
	 Check the paper settings of the printer driver. 	
	See the printer driver Help.	

When Paper Is Not Fed Properly

Problem	Solution
Prints fall behind the machine when they are delivered.	Pull up the appropriate stop fence (forward fence for A4/ Letter, rear fence for Legal size prints). See page 17 "Guide to Components".

Problem	Solution
Prints do not stack properly.	 The paper being used may be damp. Use paper that has been stored properly. See page 41 "Supported Paper".
	 Select [Level 2] or [Level 3] in [Anti-Humid Lvl] under [Maintenance]. Note that if you select [Level 2] or [Level 3], the first print takes longer than subsequent prints.
	 Pull up the appropriate stop fence (forward fence for A4/Letter, rear fence for Legal size prints). See page 17 "Guide to Components".
The printed paper is curled.	• Load the paper upside down in the paper tray.
	 If the paper curl is severe, retrieve prints from the output tray more frequently.
	 The paper being used may be damp. Use paper that has been stored properly.
	 Select [Level 1], [Level 2] or [Level 3] in [Anti-Humid Lvl] under [Maintenance]. Note that if you select [Level 2] or [Level 3], the first print takes longer than subsequent prints.
Printed envelopes come out creased.	Check if the fusing unit levers are properly set. Lower the fusing unit levers.

Other Printing Problems

Problem	Solution
The toner has run out and printing has stopped.	When the toner runs out, pressing the [Stop/Start] key allows you to print a few more pages, but the print quality of those pages may be lower.

Error & Status Messages on the Control Panel

This section explains what the messages that appear on the control panel mean and what to do when a particular message appears.

Status messages

Message	Explanation	Recommended Action
Offline	The machine is Offline.	To start printing, switch the machine to online by pressing the [Stop/Start] key on the control panel.
Processing	The machine is printing.	Wait a while.
Ready	This is the default ready message.	The machine is ready for use. No action is required.
Calibrating	The machine is calibrating.	Wait a while.
Printing	The machine is printing.	Wait a while.
Please wait	The machine is waiting for the next data to print.	Wait a while.
Warming up	The printer is warming up or toner is being supplied.	Wait until "Ready" appears on the display.

Messages

Message	Explanation	Recommended Action
SizeMsmtch:#Start/JobReset	The paper size setting in the tray # (1, 2, bypass) differs from that of actual paper size in the tray.	Load paper of the selected size in the tray, and then press the [Stop/Start] key to continue printing. Press the [Job Reset] key to cancel printing.
TypeMsmtch:#Start/JobReset	The paper type setting in the tray # (1, 2, bypass) differs from that of actual paper type in the tray.	Load paper of the selected type in the tray, and then press the [Stop/Start] key to continue printing. Press the [Job Reset] key to cancel printing.

Message	Explanation	Recommended Action
Move Env. Lever	The fusing unit levers are not positioned correctly.	When printing on an envelope, check that the left and right levers have been lowered to the envelope mark.
		When printing on paper, check that the left and right levers have been raised to the plain paper mark.
Cover Open	The top or front cover is open.	Open and then close the top or front cover.
Controller FW Download failed	Controller FW could not be downloaded.	Turn off the main power, turn it back on, and then download the controller FW again.
		If the download fails again, contact your sales or service representative.
Incorrect Tnr: #	Irregular toner # (Black, Magenta, Cyan or Yellow) is set.	Replace the toner to an appropriate one. See page 129 "Replacing the Print Cartridge".
		If the error message appears even though the toner cartridge is attached correctly, use a dry cloth to wipe the part of the toner cartridge that is in contact with the machine.
Load Paper #	The indicated tray # (1, 2, bypass) is out of paper.	Load paper into the indicated paper tray. See page 54 "Loading Paper".
Memory Overflow	This error occurs when FW memory is not enough to save the printing page.	Reduce the size of the data, and then try the operation again.

Message	Explanation	Recommended Action
Misfd: Dupl Unit	There is a paper jam in the duplex unit.	Remove the misfed paper. See page 151 "Removing
Internal Misfeed	There is a paper jam in the fusing unit.	Printing Jams".
Misfeed: PprTray	There is a paper jam in Tray 1 or Tray 2.	
Misfeed: Tray 1	There is a paper jam in Tray 1.	
Misfeed: Tray 2	There is a paper jam in Tray 2.	
Misfd: Stnd Tray	There is a paper jam in the paper exit area.	
Remove paper from Bypass Tray	The machine failed to proceed with the print job, because Tray 1 or Tray 2 was specified as the input tray but paper was loaded in the bypass tray.	Remove paper from the bypass tray.
Replace Toner: #	The printer is out of toner # (Black, Magenta, Cyan or Yellow).	Replace the print cartridge. See page 129 "Replacing the Print Cartridge".
Repl Tnr soon: #	The printer is almost out of toner # (Black, Magenta, Cyan or Yellow).	Prepare a new print cartridge.
Replace Fusing Unit	It is time to replace the Fusing unit.	Contact your sales or service representative.
Replace Intermdt Transfer Belt	It is time to replace the transfer belt.	Contact your sales or service representative.
Replace Transfer Roller	It is time to replace the transfer roller.	Contact your sales or service representative.
Replace soon: Waste Tnr Bottle	The waste toner bottle needs to be replaced soon.	Prepare a new waste toner bottle.

Message	Explanation	Recommended Action
Replace Waste Toner Bottle	It is time to replace the waste toner bottle.	Replace the waste toner bottle with a new one.
		See page 134 "Replacing the Waste Toner Bottle".
Tnr Set Error: #	The indicated print cartridge is not installed correctly, or not installed.	Install the indicated print cartridge correctly.
	The error message appears even though the print cartridge is installed correctly.	Using a dry cloth, carefully wipe the interface area on the print cartridge surface.
Fusing Unit Setting Error	The fusing unit is not installed or not installed correctly.	Install the fusing unit correctly.
Waste Tnr Bottle Setting Error	The waste toner bottle is not installed or not installed correctly.	Install the waste toner bottle correctly.
		If the error message appears even though the waste toner bottle is attached correctly, contact your service representative.
Service call SCXXX	There is a problem with the printer's controller.	Turn off the main power, and then turn it on again.
		If the error occurs again, contact your sales or service representative.
Density Sensor Require Cleaning	Color registration failed.	Clean the toner density sensor. See page 142 "Cleaning the Toner Density Sensor".

• Note

• The message about intermediate transfer unit, fusing unit, and transfer roller appear only for the Type 2 model.

Panel Indicator

The following table explains the meaning of the various indicator patterns that the printer alerts to users about its conditions.

Indicator patterns	Cause
The Alert indicator is lit.	The printer cannot be used normally. Check the error on the control panel.
The Alert indicator is flashing in yellow.	Toner has nearly run out.
The Data In indicator is flashing.	The printer is receiving print data from a computer.
The Data In indicator is lit.	There is data to be printed.
The Power indicator is lit.	The printer is ready for use.

Functions and Network Settings Available in an IPv6 Environment

The functions and network settings of this machine that are available in an IPv6 environment differ from those available in an IPv4 environment. Make sure the functions you use are supported in an IPv6 environment, and then configure the necessary network settings.

For details about specifying the IPv6 settings, see page 92 "Host Interface Menu".

Available Functions

FTP Printing

Prints documents via FTP using the EPRT and EPSV commands. An FTP client that complies with RFC 2428 (an IPv6-capable operating system and IPv6-capable FTP application) is required to use these commands.

Printer

Prints documents using the printer driver.

Web Image Monitor

Allows you to check the machine's status and configure its settings using a Web browser.

Configuration Page

Prints a configuration page that shows you the machine's configuration, IP address, and other details.

Transmission Using IPsec

For securer communications, this machine supports the IPsec protocol. When applied, IPsec encrypts data packets at the network layer using shared key encryption. The machine uses encryption key exchange to create a shared key for both sender and receiver. To achieve even higher security, you can also renew the shared key on a validity period basis.

🔁 Important

- IPsec is not applied to data obtained through DHCP, DNS, or WINS.
- IPsec compatible operating systems are Windows XP SP2, Windows Vista/7, Windows Server 2003/2003 R2/2008/2008 R2, Mac OS X 10.6 and later, Red Hat Enterprise Linux WS 4.0, and Solaris 10. However, some setting items are not supported depending on the operating system. Make sure the IPsec settings you specify are consistent with the operating system's IPsec settings.
- If you cannot access Web Image Monitor due to IPsec configuration problems, disable IPsec under [Host Interface] on the control panel, and then access Web Image Monitor.

• Note

- For details about specifying the IPsec settings using Web Image Monitor, see page 101 "Configuring the Machine Using Web Image Monitor".
- For details about disabling IPsec using the control panel, see page 92 "Host Interface Menu".

Encryption and Authentication by IPsec

IPsec consists of two main functions: the encryption function, which ensures the confidentiality of data, and the authentication function, which verifies the sender of the data and the data's integrity. This machine's IPsec function supports two security protocols: the ESP protocol, which enables both of the IPsec functions at the same time, and the AH protocol, which enables only the authentication function.

ESP Protocol

The ESP protocol provides secure transmission through both encryption and authentication. This protocol does not provide header authentication.

- For successful encryption, both the sender and receiver must specify the same encryption algorithm and encryption key. The encryption algorithm and encryption key are specified automatically.
- For successful authentication, the sender and receiver must specify the same authentication algorithm and authentication key. The authentication algorithm and authentication key are specified automatically.

AH Protocol

The AH protocol provides secure transmission through authentication of packets only, including headers.

• For successful authentication, the sender and receiver must specify the same authentication algorithm and authentication key. The authentication algorithm and authentication key are specified automatically.

AH Protocol + ESP Protocol

When combined, the ESP and AH protocols provide secure transmission through both encryption and authentication. These protocols provide header authentication.

- For successful encryption, both the sender and receiver must specify the same encryption algorithm and encryption key. The encryption algorithm and encryption key are specified automatically.
- For successful authentication, the sender and receiver must specify the same authentication algorithm and authentication key. The authentication algorithm and authentication key are specified automatically.

\rm Note

• Some operating systems use the term "Compliance" in place of "Authentication".

Security Association

This machine uses encryption key exchange as the key setting method. With this method, agreements such as the IPsec algorithm and key must be specified for both sender and receiver. Such agreements form what is known as an SA (Security Association). IPsec communication is possible only if the receiver's and sender's SA settings are identical.

The SA settings are auto configured on both parties' machines. However, before the IPsec SA can be established, the ISAKMP SA (Phase 1) settings must be auto configured. When this is done, the IPsec SA (Phase 2) settings, which allow actual IPsec transmission, will be auto configured.

Also, for further security, the SA can be periodically auto updated by applying a validity period (time limit) for its settings. This machine only supports IKEv1 for encryption key exchange.

Multiple settings can be configured in the SA.

Settings 1-10

You can configure ten separate sets of SA details (such as different shared keys and IPsec algorithms).

IPsec policies are searched through one by one, starting at [No.1].

Encryption Key Exchange Settings Configuration Flow

This section explains the procedure for specifying encryption key exchange settings.

Machine	PC	
1. Set the IPsec settings on Web Image Monitor.	1. Set the same IPsec settings as the machine on PC.	
2. Enable IPsec settings.	2. Enable IPsec settings.	
3. Confirm IPsec transmission.		



- After configuring IPsec, you can use "ping" command to check if the connection is established correctly. Because the response is slow during initial key exchange, it may take some time to confirm that transmission has been established.
- If you cannot access Web Image Monitor due to IPsec configuration problems, disable IPsec on the control panel, and then access Web Image Monitor.
- For details about disabling IPsec using the control panel, see page 92 "Host Interface Menu".

Specifying Encryption Key Exchange Settings

Comportant 🔁

• [IPsec Settings] appears only if the administrator password has been configured.

Specify it using Web Image Monitor.

- 1. Start the Web browser, and access the machine by entering its IP address.
- 2. Click [IPsec Settings].
- 3. Click the [IPsec Policy List] tab.
- 4. Select the number of the setting you want to modify in the list, and then click [Change].
- 5. Modify the IPsec related settings as necessary.
- 6. Enter the administrator password, and then click [Apply].
- 7. Click the [IPsec Global Settings] tab, and then select [Active] in [IPsec Function].
- 8. If necessary, specify [Default Policy], [Broadcast and Multicast Bypass], and [All ICMP Bypass] also.
- 9. Enter the administrator password, and then click [Apply].

Specifying IPsec Settings on the Computer

Specify exactly the same settings for IPsec SA settings on your computer as are specified for the IPsec Settings on the machine. Setting methods differ according to the computer's operating system. The following procedure is based on Windows 7 in an IPv4 environment as an example.

- On the [Start] menu, click [Control Panel], [System and Security], and then click [Administrative Tools].
- Double-click [Local Security Policy], and then click [IP Security Policies on Local Computer].
- 3. In the "Action" menu, click [Create IP Security Policy...].

The IP Security Policy Wizard appears.

- 4. Click [Next].
- 5. Enter a security policy name in "Name", and then click [Next].
- 6. Clear the "Activate the default response rule (earlier versions of Windows only)." check box, and then click [Next].
- 7. Select "Edit properties", and then click [Finish].
- 8. In the "General" tab, click [Settings...].
- 9. In "Authenticate and generate a new key after every", enter the same validity period (in minutes) that is specified on the machine in [IKE Life Time], and then click [Methods...].
- Confirm that the Encryption Algorithm ("Encryption"), Hash Algorithm ("Integrity"), and IKE Diffie-Hellman Group ("Diffie-Hellman Group") settings in "Security method preference order" all match those specified on the machine in [IKE Settings].

If the settings are not displayed, click [Add...].

- 11. Click [OK] twice.
- 12. Click [Add...] in the "Rules" tab.

The Security Rule Wizard appears.

- 13. Click [Next].
- 14. Select "This rule does not specify a tunnel", and then click [Next].
- 15. Select the type of network for IPsec, and then click [Next].
- 16. Click [Add...] in the IP Filter List.
- In [Name], enter an IP Filter name, and then click [Add...]. The IP Filter Wizard appears.
- 18. Click [Next].

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 In [Description:], enter a name or a detailed explanation of the IP filter, and then click [Next].

You may click [Next] and proceed to the next step without entering any information in this field.

- 20. Select "My IP Address" in "Source address", and then click [Next].
- Select "A specific IP Address or Subnet" in "Destination address", enter the machine's IP address, and then click [Next].
- 22. For the IPsec protocol type, select "Any", and then click [Next].
- 23. Click [Finish], and then click [OK].
- 24. Select the IP filter that you have just created, and then click [Next].
- 25. Click [Add...] in the Filter Action.

The Filter Action Wizard appears.

- 26. Click [Next].
- 27. In [Name], enter a Filter Action name, and then click [Next].
- 28. Select "Negotiate security", and then click [Next].
- 29. Select one of options for computers allowed to communicate with, and then click [Next].
- 30. Select "Custom" and click [Settings...].
- 31. When [ESP] is selected for the machine in [Security Protocol] under [IPsec Settings], select [Data integrity and encryption (ESP)], and configure the following settings:

Set the value of [Integrity algorithm] to the same value as the [Authentication Algorithm for ESP] specified on the machine.

Set the value of [Encryption algorithm] to the same value as the [Encryption Algorithm for ESP] specified on the machine.

32. When [AH] is selected for the machine in [Security Protocol] under [IPsec Settings], select [Data and address integrity without encryption (AH)], and configure the following settings:

Set the value of [Integrity algorithm] to the same value as the [Authentication Algorithm for AH] specified on the machine.

Clear the [Data integrity and encryption (ESP)] check box.

33. When [ESP&AH] is selected for the machine in [Security Protocol] under [IPsec Settings], select [Data and address integrity without encryption (AH)], and configure the following settings:

Set the value of [Integrity algorithm] under [Data and address integrity without encryption (AH)] to the same value as [Authentication Algorithm for AH] specified on the machine.

Set the value of [Encryption algorithm] under [Data integrity and encryption (ESP)] to the same value as [Encryption Algorithm for ESP] specified on the machine.

- 34. In the Session key settings, select "Generate a new key every", and enter the same validity period (in [Seconds] or [Kbytes]) as that specified for [Life Time] on the machine.
- 35. Click [OK], and then click [Next].
- 36. Click [Finish].

If you are using IPv6 under Windows Vista or a newer version of Windows, you must repeat this procedure from Step 12 and specify ICMPv6 as an exception. When you reach Step 22, select [58] as the protocol number for the "Other" target protocol type, and then set [Negotiate security] to [Permit].

- 37. Select the filter action that you have just created, and then click [Next].
- 38. Select one of options for an authentication method, and then click [Next].
- 39. Click [Finish], and then click [OK] twice.

The new IP security policy (IPsec settings) is specified.

40. Select the security policy that you have just created, right click on it, and then click [Assign].

IPsec settings on the computer are enabled.

🕓 Note

 To disable the computer's IPsec settings, select the security policy, right click, and then click [Unassign].

Enabling and Disabling IPsec Using the Control Panel

- 1. Press the [Menu] key.
- 2. Press the [▲] or [▼] key to select [Host Interface], and then press the [OK] key.
- 3. Press the [▲] or [♥] key to select [Network Setting], and then press the [OK] key.
- 4. Press the [▲] or [▼] key to select [IPsec], and then press the [OK] key.
- 5. Press the [▲] or [▼] key to select [Active] or [Inactive], and then press the [OK] key.
- 6. Press the [Menu] key to return to the initial screen.

Notes About the Toner

- Proper operation cannot be guaranteed if any third-party toner is used.
- Depending on printing conditions, there are cases where the printer cannot print the number of sheets indicated in the specifications.
- Replace the print cartridge if the printed image suddenly becomes pale or blurred.
- When operating the machine for the first time, use the print cartridge supplied with this machine. If this cartridge is not initially used, the following problems may occur:
 - "Repl Tnr soon: #" will be displayed before the toner runs out.
 - "Replace Toner:#" will be displayed when the toner runs out, but instead the printed image suddenly becomes pale or blurred.
- The lifetime of the photo conductor, which is built into the print cartridge, is taken into account in displaying "Repl Tnr soon: #". If the photo conductor stops working before the toner runs out, "Repl Tnr soon: #" may be displayed.

Moving and Transporting the Machine

This section provides cautions that you must follow when moving the machine both short and long distances.

Repack the machine in its original packing materials when moving it over a long distance.

🔁 Important

- Be sure to disconnect all cables from the machine before transporting it.
- The machine is a precision piece of machinery. Be sure to handle it carefully when moving it.
- Make sure to move the machine horizontally. Take extra caution when carrying the machine up or down stairs.
- If Tray 2 is installed, remove it from the machine, and move them separately.
- Do not remove the print cartridge when moving the machine.
- Be sure to hold the machine level while carrying it. To prevent toner from spilling, move the machine carefully.
- 1. Be sure to check the following points:
 - The power switch is turned off.
 - The power cord is unplugged from the wall outlet.
 - All other cables are unplugged from the machine.
- 2. If Tray 2 is installed, remove it.
- 3. Lift the machine using the inset grips on both sides of the machine, and then move it horizontally to the place where you want to use it.
- 4. If you have removed Tray 2, reinstall it.

Note

- To move the machine over a long distance, pack it well and empty all the paper trays. Take care not to tip or tilt the machine during transit.
- Toner might spill inside the machine if the machine is not kept level during transit.
- For more information about moving the machine, contact your sales or service representative.

Disposal

Ask your sales or service representative for information about correct disposal of this machine.

Where to Inquire

Contact your sales or service representative for further information about the topics included in this manual or to inquire about other topics not included in this manual.

Consumables

• Our products are engineered to meet high standards of quality and functionality, and we recommend that you use only the expendable supplies available at an authorized dealer.

Print Cartridge

Print cartridge	Average printable number of pages per cartridge *1
Black	Typel:
	Region A (mainly Europe and Asia)
	• 2,000 pages
	Region B (mainly North America)
	• 2,300 pages
	Туре2:
	Region A (mainly Europe and Asia)
	• 4,500 pages
	Region B (mainly North America)
	• 4,500 pages, 6,500 pages
Cyan	Type 1:
	Region A (mainly Europe and Asia)
	• 1,600 pages
	Region B (mainly North America)
	• 2,300 pages
	Type2:
	Region A (mainly Europe and Asia)
	• 4,000 pages
	Region B (mainly North America)
	• 4,000 pages, 6,000 pages

Print cartridge	Average printable number of pages per cartridge ^{*1}
Magenta	Typel:
	Region A (mainly Europe and Asia)
	• 1,600 pages
	Region B (mainly North America)
	• 2,300 pages
	Type2:
	Region A (mainly Europe and Asia)
	• 4,000 pages
	Region B (mainly North America)
	• 4,000 pages, 6,000 pages
Yellow	Typel:
	Region A (mainly Europe and Asia)
	• 1,600 pages
	Region B (mainly North America)
	• 2,300 pages
	Type2:
	Region A (mainly Europe and Asia)
	• 4,000 pages
	Region B (mainly North America)
	• 4,000 pages, 6,000 pages

*1 The printable number of pages is based on pages that are compliant with ISO/IEC 19798 and the image density set as the factory default. ISO/IEC 19798 is an international standard on measurement of printable pages, set by the International Organization for Standardization.

Vote

- If print cartridges are not changed when necessary, printing will become impossible. For easy replacement, we recommend you purchase and store extra print cartridges.
- The actual number of printable pages varies depending on the image volume and density, number of pages printed at a time, paper type and paper size used, and environmental conditions such as temperature and humidity.
- Print cartridges may need to be changed sooner than indicated above due to deterioration over the period of use.

- Print cartridges (consumables) are not covered by warranty. However, if there is a problem, contact the store where they were purchased.
- When you first use this machine, use the four print cartridges packaged with the machine.
- The supplied print cartridges are good for approximately 1,000 pages.
- This machine routinely performs cleaning and uses toner during this operation to maintain quality.
- To prevent a cleaning malfunction, you may need to replace a print cartridge even if it is not empty.

Waste Toner Bottle

Name	Average printable number of pages ^{*1}
Waste Toner Bottle SP C220	25,000 pages

*1 A4/Letter 5% test chart, 3 pages per job, printing in 50% black and white/color.

Vote

- The actual number of printable pages varies depending on the image volume and density, number of pages printed at a time, paper type and paper size used, and environmental conditions such as temperature and humidity.
- If the waste toner bottle is not changed when necessary, printing will become impossible. For easy replacement, we recommend you purchase and store extra waste toner bottles.

Specifications of the Machine

This section lists the machine's specifications.

General Function Specifications

Configuration

Desktop

Print process

Laser electrostatic transfer

Maximum paper size for printing

Legal $(8^1/_2 \times 14 \text{ inches})$

Warm-up time

30 seconds or less (23 °C, 71.6 °F)

Paper sizes

• Standard paper sizes

A4, B5 JIS, A5, A6, Legal $(8^{1}/_{2} \times 14 \text{ inches})$, Letter $(8^{1}/_{2} \times 11 \text{ inches})$, Half Letter $(5^{1}/_{2} \times 8^{1}/_{2} \text{ inches})$, Executive $(7^{1}/_{4} \times 10^{1}/_{2} \text{ inches})$, $8 \times 13 \text{ inches}$, B6 JIS, $8^{1}/_{2} \times 13 \text{ inches}$, Folio $(8^{1}/_{4} \times 13 \text{ inches})$, 16K (195 × 267 mm), Com10 $(4^{1}/_{8} \times 9^{1}/_{2} \text{ inches})$, Monarch $(3^{7}/_{8} \times 7^{1}/_{2} \text{ inches})$, C5 Env (162 × 229 mm), C6 Env (114 × 162 mm), DL Env (110 × 220 mm)

• Custom size

90 to 216 mm (3.54 to 8.5 inches) in width, 148 to 356 mm (5.83 to 14.0 inches) in length

• Duplex supported paper sizes

A4, B5 JIS, Legal ($8^{1}/_{2} \times 14$ inches), Letter ($8^{1}/_{2} \times 11$ inches), Executive ($7^{1}/_{4} \times 10^{1}/_{2}$ inches), $8^{1}/_{2} \times 13$ inches, Folio ($8^{1}/_{4} \times 13$ inches), 8 inches × 13 inches, 16K (195 × 267 mm)

Paper type

Thin Paper

Plain Paper

Middle Thick Paper

Thick Paper 1

Thick Paper 2

Recycled Paper

Color Paper

Preprinted

Prepunched

Letterhead

Bond Paper

Cardstock

Label Paper

Envelope

Paper output capacity (80 g/m², 20 lb)

150 sheets

Paper input capacity (80 g/m², 20 lb)

• Tray 1

250 sheets

• Tray 2 (option)

500 sheets

Bypass tray
 One sheet

Memory

128 MB

Power requirements

220-240 V, 6 A, 50/60 Hz

Power consumption

- Maximum power consumption 1300 W or less
- Energy Saver mode 1
 80 W or less

80 vv or less

Energy Saver mode 2

Region A (mainly Europe and Asia)

3.8 W or less

Region B (mainly North America)

2.7 W or less

The power level when the main switch is turned off and the power cord is plugged into an outlet: 1W or less.

* Recovery time and power consumption may differ depending on the conditions and environment of the machine.

Machine dimensions (Width × Depth × Height)

400 × 450 × 320 mm (15.8 × 17.8 × 12.8 inches) or less

Weight (machine body with consumables)

23.8 kg (52.5 lb.) or less

Printer Function Specifications

Printing speed

Black and white: 20 pages per minute (A4), 21 pages per minute (Letter)

Color: 20 pages per minute (A4), 21 pages per minute (Letter)

Resolution

600 × 600 dpi

First print speed

14 seconds or less (A4/Letter, 600 × 600 dpi)

Interface

- Ethernet (10BASE-T, 100BASE-TX)
- Wi-Fi
- USB2.0
- USB2.0 Host

Printer language

PCL6, PCL5c, PostScript3, PictBridge

Fonts

80 fonts

Network protocol

TCP/IP, IPP, Bonjour

Specifications of Options

This section lists the specifications of the various options.

Paper Feed Unit TK1010

Paper capacity

500 sheets

Paper size

A4, Letter $(8^1/_2 \times 11 \text{ inches})$

Dimensions (Width × Depth × Height)

400 × 450 × 127 mm (15.8 × 17.8 × 5 inches)

Paper weight

60 to 105 g/m² (16 to 28 lb.)

Weight

Less than 4 kg (8.9 lb.)

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Iperf performance test

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

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- The product names of Windows 8 are as follows:

8

Microsoft[®] Windows[®] 8 Microsoft[®] Windows[®] 8 Pro Microsoft[®] Windows[®] 8 Enterprise

- The product names of Windows Server 2003 are as follows: Microsoft[®] Windows Server[®] 2003 Standard Edition Microsoft[®] Windows Server[®] 2003 Enterprise Edition Microsoft[®] Windows Server[®] 2003 Web Edition Microsoft[®] Windows Server[®] 2003 Datacenter Edition
- The product names of Windows Server 2003 R2 are as follows: Microsoft[®] Windows Server[®] 2003 R2 Standard Edition Microsoft[®] Windows Server[®] 2003 R2 Enterprise Edition Microsoft[®] Windows Server[®] 2003 R2 Datacenter Edition
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- The product names of Windows Server 2012 are as follows: Microsoft[®] Windows Server[®] 2012 Foundation Microsoft[®] Windows Server[®] 2012 Essentials Microsoft[®] Windows Server[®] 2012 Standard Microsoft[®] Windows Server[®] 2012 Datacenter

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MEMO

MEMO

MEMO