# SP C830DN/C831DN Aficio SP C830dn/C831dn





Read This First	Manuals Provided with This Machine
	Safety Information 2
	Information for This Machine 3
	Appendix 4
	For information not in this manual, refer to the HTML/PDF files on the supplied CD-ROM.



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

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# Introduction

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

# How to Read the Manuals

#### Symbols Used in the Manuals

This manual uses the following symbols:

#### C Important

Indicates points to pay attention to when using the machine, and explanations of likely causes of paper misfeeds, damage to originals, or loss of data. Be sure to read these explanations.

#### Vote

Indicates supplementary explanations of the machine's functions, and instructions on resolving user errors.

#### Reference

This symbol is located at the end of sections. It indicates where you can find further relevant information.

### []

Indicates the names of keys on the machine's display or control panels.

#### ٢

Indicates instructions stored in a file on a provided CD-ROM.

Region A (mainly Europe and Asia)

(mainly North America)

Differences in the functions of Region A and Region B models are indicated by two symbols. Read the information indicated by the symbol that corresponds to the region of the model you are using. For details about which symbol corresponds to the model you are using, see "Model-Specific Information", Operating Instructions D.

#### Disclaimer

Contents of this manual are subject to change without prior notice.

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 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.

#### Notes

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.

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

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

#### **Machine Types**

Check the type of your machine before reading the manuals.

- Type 1: SP C830DN/Aficio SP C830DN
- Type 2: SP C831DN/Aficio SP C831DN

Certain options might not be available in some countries. For details, please contact your local dealer.

Depending on which country you are in, certain units may be optional. For details, please contact your local dealer.

# 1. Manuals Provided with This Machine

This chapter explains manuals for this machine.

# **Manuals for This Machine**

Read this manual carefully before you use this machine.

Refer to the manuals that are relevant to what you want to do with the machine.

#### 🔁 Important

- Media differ according to manual.
- Adobe<sup>®</sup> Acrobat<sup>®</sup> Reader<sup>®</sup>/Adobe Reader must be installed in order to view the manuals as PDF files.
- A Web browser must be installed in order to view the html manuals.

#### User Guide

Regarding the basic usage of this machine, frequently used functions, troubleshooting when an error message appears, etc., summaries are provided below for html manual.

#### **Read This First**

Before using the machine, be sure to read the section of this manual entitled Safety Information. It also describes each regulation and environmental conformance.

#### **Quick Installation Guide**

Describes procedures from unpacking the machine to connecting it to a computer.

#### **Operating Instructions**

Provides detailed information about the operation of the printer in HTML format. The following are main topics of the manual:

- Setting Up the Printer
- Getting Started
- Printing
- Configuring and Managing the Printer
- Troubleshooting
- Maintenance and Specifications
- VM Card Extended Feature Settings

#### Security Guide

This manual is for administrators of the machine. It explains security functions that you can use to prevent unauthorized use of the machine, data tampering, or information leakage. For enhanced security, we recommend that you first make the following settings:

- Install the Device Certificate.
- Enable SSL (Secure Sockets Layer) Encryption.
- Change the user name and password of the administrator using Web Image Monitor.

For details, see "Before Using This Machine", Security Guide.

Be sure to read this manual when setting the enhanced security functions, or user and administrator authentication.

#### **Driver Installation Guide**

Describes how to install and configure each driver. This manual is included in the drivers CD.

#### Note

- Manuals provided are specific to machine types.
- Driver Installation Guide and HTML manuals are available in English, German, French, Italian, Spanish, Dutch, and Russian.

# **Manuals List**

Manual Name	Printed Manuals Provided	HTML Manuals Provided	PDF Manuals Provided
User Guide	No	No	Yes
Read This First	Yes	No	No
Quick Installation Guide	Yes	No	No
Operating Instructions	No	Yes	No
Security Guide	No	No	Yes
Driver Installation Guide	No	No	Yes

#### Vote

• Driver Installation Guide and HTML manuals are available in English, German, French, Italian, Spanish, Dutch, and Russian.

# **On-screen Operating Instructions**

This section describes the on-screen operating instructions of this machine. The on-screen operating instructions are included in the supplied manual CD-ROM.

#### Formats of the Operating Instructions

The operating instructions of this machine are provided in the following formats:

- Printed manuals
- HTML manuals
- PDF manuals

For details about the contents of each manual, see p.7 "Manuals for This Machine". The various manuals are available in different formats. For details about availability, see p.9 "Manuals List".

#### Reading the HTML Manuals on the CD-ROM

This section describes how to read the HTML manuals on the supplied manual CD-ROM.

- 1. Insert the CD-ROM in the CD-ROM drive of your computer.
- 2. Select a language and a product, and then click [OK].
- 3. Click [Read HTML manuals].
- 4. Click the title of manual you want to read.

#### • Note

- Recommended browsers:
  - Internet Explorer 6 or later
  - Firefox 3.5 or later
  - Safari 4.0 or later
- If you want to read the HTML manuals on a Macintosh, insert the CD-ROM in the CD-ROM drive, and then click [Read HTML manuals].
- If JavaScript is disabled or unavailable in your browser, you will not be able to search or use certain buttons in the HTML documentation.
- HTML manuals are available in English, German, French, Italian, Spanish, Dutch, and Russian.

#### Installing and Opening the HTML Manuals

This section describes how to install and open the HTML manuals on your computer.

For your convenience, we recommend you install these manuals on your computer.

- 1. Insert the CD-ROM in the CD-ROM drive of your computer.
- 2. Select a language and a product, and then click [OK].
- 3. Click [Install manuals].
- 4. Install the HTML manuals by following the on-screen instructions.
- 5. When the installation is complete, click [Finish].
- 6. Click [Exit].
- 7. Open the HTML manuals that you installed.

To open the manuals from an icon, double-click the icon on the desktop. To open the manuals from the [Start] menu, point to [All Programs], and then click [(product name)].

8. Click the title of the manual you want to read.

#### **Vote**

- You need administrator permissions to install the manuals. Log in as an Administrators group member.
- The system requirements for installing the manuals are as follows:
  - Operating system: Windows XP/Vista/7, Windows Server 2003/2003 R2/2008/2008 R2
  - Minimum display resolution: 800 × 600 pixels
- If you cannot install a manual, copy the "MANUAL\_HTML" folder to your computer's hard drive, and then run "Setup.exe".
- To delete an installed manual, on the [Start] menu, point to [All Programs], click [(product name)], and then uninstall the data.
- Depending on the settings made during installation, menu folder names may differ.
- HTML manuals are available in English, German, French, Italian, Spanish, Dutch, and Russian.

#### Reading the PDF Manuals on the CD-ROM

This section describes how to read the PDF manuals on the supplied manual CD-ROM.

#### File path

The manuals are included in the following folder on the CD-ROM: MANUAL\_PDF\(language)

- 1. Insert the CD-ROM in the CD-ROM drive of your computer.
- 2. Select a language and a product, and then click [OK].
- 3. Click [Read PDF manuals].

#### • Note

- To view the PDF manuals, you need to have Adobe Acrobat Reader/Adobe Reader installed on your computer.
- If you want to read the PDF manuals on a Macintosh, insert the CD-ROM in the CD-ROM drive, and then click [Read PDF manuals].

# 2. Safety Information

This chapter describes the safety precautions.

# **Safety During Operation**

In this manual, the following important symbols are used:

### **WARNING**

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

### **CAUTION**

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

# Safety Precautions to Be Followed

This section explains safety precautions that should always be followed when using this machine.

### Environments where the Machine can be Used

This section explains safety precautions about environments where the machine can be used.

#### **WARNING**

 Do not use flammable sprays or solvents in the vicinity of this machine. Doing so could result in fire or electric shock.

#### 🕂 WARNING

 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.

### **ACAUTION**

• 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.

### **ACAUTION**

 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.

### 

 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.

# 

 Do not obstruct the machine's vents. Doing so risks fire caused by overheated internal components.

#### Handling Power Cords and Power Cord Plugs

This section explains safety precautions about handling power cords and power cord plugs.

### **WARNING**

• Do not use any power sources other than those that match the specifications shown. Doing so could result in fire or electric shock.

### **WARNING**

• Do not use any frequencies other than those that match the specifications shown. Doing so could result in fire or electric shock.

### **WARNING**

• Do not use multi-socket adaptors. Doing so could result in fire or electric shock.

### **WARNING**

• Do not use extension cords. Doing so could result in fire or electric shock.

### **WARNING**

 Do not use power cords that are damaged, broken, or modified. Also, do not use power cords that have been trapped under heavy objects, pulled hard, or bent severely. Doing so could result in fire or electric shock.

### **WARNING**

- Be sure to disconnect the plug from the wall outlet at least once a year.
  - There are burn marks on the plug.
  - The prongs on the plug are deformed.
- If any of the above conditions exist, do not use the plug and consult your dealer or service representative. Use of the plug could result in fire or electric shock.

### **WARNING**

- Be sure to disconnect the power cord from the wall outlet at least once a year.
  - The power cord's inner wires are exposed, broken, etc.
  - The power cord's coating has a crack or dent.
  - When bending the power cord, the power turns off and on.
  - Part of the power cord becomes hot.
  - The power cord is damaged.
- If any of the above conditions exist, do not use the power cord and consult your dealer or service representative. Use of the power cord could result in fire or electric shock.

### **WARNING**

 Touching the prongs of the power cable's plug with anything metallic constitutes a fire and electric shock hazard.

### **WARNING**

 The supplied power cord is for use with this machine only. Do not use it with other appliances. Doing so could result in fire or electric shock.

### **WARNING**

 It is dangerous to handle the power cord plug with wet hands. Doing so could result in electric shock.

### **WARNING**

 If the power cord is damaged and its inner wires are exposed or broken, contact your service representative for a replacement. Use of damaged power cords could result in fire or electric shock.

### 

• Be sure to push the plug of the power cord fully into the wall outlet. Partially inserted plugs create an unstable connection that can result in unsafe buildup of heat.

## 

• If this machine is not going to be used for several days or longer at a time, disconnect its power cord from the wall outlet.

# 

 When disconnecting the power cord from the wall outlet, always pull the plug, not the cord. Pulling the cord can damage the power cord. Use of damaged power cords could result in fire or electric shock.

# 

 Be sure to disconnect the plug from the wall outlet and clean the prongs and the area around the prongs at least once a year. Allowing dust to build up on the plug constitutes a fire hazard.

# 

• When performing maintenance on the machine, always disconnect the power cord from the wall outlet.

#### Handling the Main Machine

This section explains safety precautions about handling the main machine.

## 

Be sure to locate the machine as close as possible to a wall outlet. This will allow easy
disconnection of the power cord in the event of an emergency.

## **WARNING**

 If the machine emits smoke or odours, or if it behaves unusually, you must turn off its power immediately. After turning off the power, be sure to disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the machine. Doing so could result in fire or electric shock.

# **WARNING**

 If metal objects, or water or other fluids fall inside this machine, you must turn off its power immediately. After turning off the power, be sure to disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the machine. Doing so could result in fire or electric shock.

## **WARNING**

 Do not touch this machine if a lightning strike occurs in the immediate vicinity. Doing so could result in electric shock.

## **WARNING**

- The following explains the warning messages on the plastic bag used in this product's packaging.
  - Keep the polythene materials (bags, etc.) supplied with this machine away from babies and small children at all times. Suffocation can result if polythene materials are brought into contact with the mouth or nose.

## 

Unplug the power cord from the wall outlet before you move the machine. While moving the
machine, take care that the power cord is not damaged under the machine. Failing to take these
precautions could result in fire or electric shock.

## 

 If you have to move the machine when the optional paper tray unit is attached, do not push on the main unit's top section. Doing so can cause the optional paper tray unit to detach, possibly resulting in injury.

## 

Before moving the machine, be sure to pull all four handles fully out. If not, an injury might
occur. After moving the machine, return the four handles to their original positions.

# 

 After you move the machine, use the caster fixture to fix it in place. Otherwise the machine might move or come down to cause an injury.

## 

 Contact your service representative if you need to lift the machine (such as when relocating it to another floor). Do not attempt to lift the machine without the assistance of your service representative. The machine will be damaged if it topples or is dropped, resulting in malfunction and risk of injury to users.

# 

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.

# 

• Do not hold the control panel while moving the machine. Doing so may damage the control panel, cause a malfunction, or result in injury.

#### Handling the Machine's Interior

This section explains safety precautions about handling the machine's interior.

### 🕂 WARNING

- Do not remove any covers or screws other than those explicitly mentioned in this manual. Inside this machine are high voltage components that are an electric shock hazard and laser components that could cause blindness. Contact your sales or service representative if any of the machine's internal components require maintenance, adjustment, or repair.
- Do not attempt to disassemble or modify this machine. Doing so risks burns and electric shock. Note again that exposure to the laser components inside this machine risks blindness.

# 

• 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.

## 

• The inside of the machine could be very hot. Do not touch the parts with a label indicating the "hot surface". Otherwise, an injury might occur.

# 

When removing jammed paper, make sure not to trap or injure your fingers.

### 

• When loading paper, take care not to trap or injure your fingers.

### 

• Keep your hands clear of the booklet finisher tray when removing misfed paper, pulling out or pushing in the finisher's staple unit. You can trap and injure your fingers if you do not.

# 

 During operation, rollers for transporting the paper and originals revolve. A safety device has been installed so that the machine can be operated safely. But take care not to touch the machine during operation. Otherwise, an injury might occur.

## 

If the machine's interior is not cleaned regularly, dust will accumulate. Fire and breakdown can
result from heavy accumulation of dust inside this machine. Contact your sales or service
representative for details about and charges for cleaning the machine's interior.

## 

• Do not place your hand inside the machine when installing the controller board. If your finger gets trapped in the machine, an injury might occur.

#### Handling the Machine's Supplies

This section explains safety precautions about handling the machine's supplies.

# **WARNING**

 Do not incinerate toner (new or used) or toner containers. Doing so risks burns. Toner will ignite on contact with naked flame.

### **WARNING**

• Do not store toner (new or used) or toner containers anywhere near naked flames. Doing so risks fire and burns. Toner will ignite on contact with naked flame.

## **WARNING**

Do not use the cleaner to suck spilled toner (including used toner). Sucked toner may cause
firing or explosion due to electrical contact flickering inside the cleaner. However, it is possible
to use the cleaner designed for dust explosion-proof purpose. If toner is spilled over the floor,
sweep up spilled toner slowly and clean remainder with wet cloth.

# **WARNING**

- The following explains the warning messages on the plastic bag used in this product's packaging.
  - Keep the polythene materials (bags, gloves, etc.) supplied with this machine away from babies and small children at all times. Suffocation can result if polythene materials are brought into contact with the mouth or nose.

## 

• Do not crush or squeeze toner containers. Doing so can cause toner spillage, possibly resulting in dirtying of skin, clothing, and floor, and accidental ingestion.

## 

• Store toner (new or used), toner containers, and components that have been in contact with toner out of reach of children.

# 

 If toner or used toner is inhaled, gargle with plenty of water and move into a fresh air environment. Consult a doctor if necessary.

# 

If toner or used toner gets into your eyes, flush immediately with large amounts of water. Consult
a doctor if necessary.

# 

 If toner or used toner is swallowed, dilute by drinking a large amount of water. Consult a doctor if necessary.

# 

• When removing jammed paper or replacing toner, avoid getting toner (new or used) on your clothing. If toner comes into contact with your clothing, wash the stained area with cold water. Hot water will set the toner into the fabric and make removing the stain impossible.

# 

 When removing jammed paper or replacing toner, avoid getting toner (new or used) on your skin. If toner comes into contact with your skin, wash the affected area thoroughly with soap and water.

# 

• Do not attempt to print on stapled sheets, aluminum foil, carbon paper, or any kind of conductive paper. Doing so risks fire.

### **CAUTION**

 Keep SD cards or USB flash memory devices out of reach of children. If a child accidentally swallows an SD card or USB flash memory device, consult a doctor immediately.

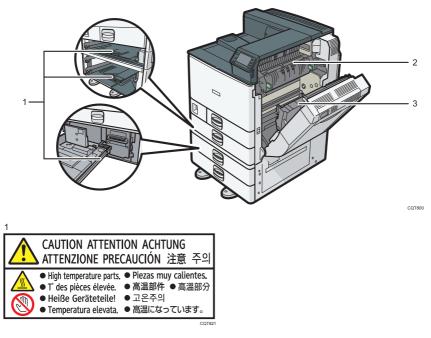
# Safety Labels of This Machine

This section explains the machine's safety information labels.

### Positions of WARNING and CAUTION labels

This machine has labels for  $\triangle$ WARNING and  $\triangle$ CAUTION at the positions shown below. For safety, please follow the instructions and handle the machine as indicated.

#### Main unit and optional paper trays



(This label is put on the place only when the optional anti-humidity heater is installed)

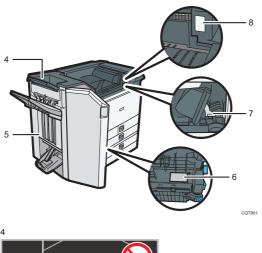
The inside of the machine could be very hot. Do not touch the parts which a label is put on. Otherwise, an injury might occur.



High Integrature parts. Will a while to allow the Foiling birts to cold down before removing midel page. Helling Geritteliek Warten SL vor Enferten Ge Sparksaus eine Well, damit die Fuiereicheit akklinte han. Arkettoris, tempeisten Gerick Althund er paulo fich bain reforession auch die refere page concile. Fuith 2 integrature and east active approach and east. Authoris tempeistan der aus. Antender finde fitzen integrature and east active approach and east. Authoris tempeistan der aus. Authoris fitzen der auf and integration der aus. Authoris tempeistan der aus. Authoris fitzen der auf auf authoris der aus authoris aus. Authoris tempeistan der aus. Authoris fitzen der aus authoris aus. Authoris tempeistan der aus. Authoris fitzen der auf authoris der aus authoris der aus authoris authoris der aus authoris authoris der author High temperature parts. Wait a while to allow the Fusing Unit to cool down before removing misfed paper.



Do not touch the parts a label indicates. The inside of the machine could be very hot. Caution should be taken when removing misfed paper.



#### Finisher SR3120, Booklet Finisher SR3110, and bridge unit

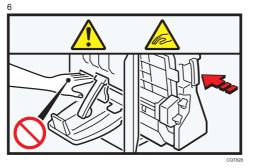
4

During operation, rollers for transporting the paper revolve. Take care not to touch rollers during operation. Otherwise, an injury might occur.



#### (Finisher SR3110 only)

Keep your hands clear of the booklet finisher tray when pulling out or pushing in the finisher's staple unit, or removing paper jam. You might trap your fingers if you do not. Take care not to touch the booklet finisher tray during operation. Otherwise, an injury might occur.



(Finisher SR3110 only)

Keep your hands clear of the booklet finisher tray when pulling out or pushing in the finisher's staple unit, or removing paper jam. You might trap your fingers if you do not.



Do not touch the parts a label indicates. The inside of the bridge unit could be very hot. Caution should be taken when removing misfed paper.



During operation, rollers for transporting the paper revolve. Take care not to touch rollers during operation. Otherwise, an injury might occur.

### Power Switch Symbols

The meanings of the symbols for the switches on this machine are as follows:

- POWER ON
- ・ 也 : STANDBY

2. Safety Information

# 3. Information for This Machine

This chapter describes laws and regulations related to this machine.

# **Duplication and Printing Prohibited**

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.

# Laser Safety

This machine complies with the requirements of IEC60825-1:2007 (EN60825-1:2007) for class 1 laser product. The machine contains four AlGaInP laser diodes, 9 milliwatts, 648-663 nanometer wavelength for each emitter. The beam divergence angle is 28 degrees (minimum) and 35 degrees (maximum) in the vertical direction, and 7 degrees (minimum) and 10 degrees (maximum) in the horizontal direction, and laser beams are generated in Continuous Wave (CW) mode.

The following label is attached on the rear side of the machine:



#### Caution:

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

# **ENERGY STAR Program**

#### ENERGY STAR<sup>®</sup> Program Requirements for Imaging Equipment



This company is a participant in the ENERGY STAR<sup>®</sup> Program.

This machine is compliant with the regulations specified by the  ${\rm ENERGY}~{\rm STAR}^{\otimes}$  Program.

The ENERGY STAR<sup>®</sup> 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 multi-function devices. Energy Star standards and logos are internationally uniform.

#### Note

• For details about the "default delay time", see p.32 "Energy Saving Functions".

#### **Recycled Paper**

We recommend use of recycled paper which is environment friendly. Please contact your sales representative for recommended paper.

# **Energy Saving Functions**

To reduce its power consumption, this machine has the following functions:

#### Low Power mode

- If this machine remains idle for a specified period, it automatically reduces its electrical consumption.
- The default period the machine waits before entering Low Power mode is "Off". This default time can be changed.

#### Sleep mode

- If this machine is already in Low Power mode and remains idle for a specified period or when the [Energy Saver] key is pressed, it enters Sleep mode to further reduce its electrical consumption.
- The default delay time the machine waits before entering Sleep mode is 1 minute. This default time can be changed.
- The machine can print jobs from computers while in Sleep mode.

#### Specification for types 1 and 2

	Type 1	Туре 2
Reduced electrical consumption in Low Power mode	59 W	59 W
Time of switch into Low Power mode	Off	Off
Time of switch out from Low Power mode	10 seconds	10 seconds
Reduced electrical consumption in Sleep mode	1.4 W	1.4 W
Time of switch into Sleep mode	1 minute	1 minute
Time of switch out from Sleep mode	15 seconds	20 seconds

#### 🕓 Note

- Specifications can vary depending on which options are installed on the machine.
- For details about how to change the default interval, see "Timer Settings", Operating Instructions
   O
- Depending on which embedded software application is installed on it, the machine might take longer than indicated to enter Sleep mode.

# User Information on Electrical and 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.

#### For Users in India

This product complies with the "India E-waste Rule 2011" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

# **EMC** Directive

#### Using the Shield Cable

Properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet emission limits.

### Installing the Ferrite Core

Network cable with a ferrite core must be used for RF interference suppression.

# 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.

# **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 64 g/m<sup>2</sup> 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.

# **Noise Emission**

#### Sound power level

• Main unit only

	Туре 1	Туре 2
Stand-by	40.0 dB (A)	40.0 dB (A)
Printing	Full color: 71.5 dB (A) B&W: 71.8 dB (A)	72.0 dB (A)

#### • Complete system

	Туре 1	Туре 2
Stand-by	40.0 dB (A)	40.0 dB (A)
Printing	Full color: 75.5 dB (A)	Full color: 76.0 dB (A)

#### Sound pressure level

• Main unit only

	Туре 1	Туре 2
Stand-by	34.0 dB (A)	34.0 dB (A)
Printing	Full color: 65.5 dB (A) B&W: 65.8 dB (A)	66.0 dB (A)

• Complete system

	Туре 1	Туре 2
Stand-by	34.0 dB (A)	34.0 dB (A)
Printing	Full color: 69.5 dB (A)	Full color: 70.0 dB (A)

- Sound power level and sound pressure level are actual values measured in accordance with ISO 7779.
- Sound pressure level is measured from the position of the bystander.
- The complete system consists of the main unit, mailbox, 1000-sheet paper feed unit, 1200-sheet paper feed unit, bridge unit and 3000-sheet finisher.

3. Information for This Machine

# 4. Appendix

This chapter describes trademarks.

# Trademarks

Adobe, Acrobat, and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Firefox<sup>®</sup> is a registered trademark of the Mozilla Foundation.

Macintosh and Safari are trademarks of Apple Inc., registered in the United States and other countries.

Microsoft<sup>®</sup>, Windows<sup>®</sup>, Windows Server<sup>®</sup>, Windows Vista<sup>®</sup>, and Internet Explorer<sup>®</sup> are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

The proper name of Internet Explorer 6 is Microsoft<sup>®</sup> Internet Explorer<sup>®</sup> 6.

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

- The product names of Windows XP are as follows: Microsoft<sup>®</sup> Windows<sup>®</sup> XP Professional Edition Microsoft<sup>®</sup> Windows<sup>®</sup> XP Home Edition Microsoft<sup>®</sup> Windows<sup>®</sup> XP Media Center Edition Microsoft<sup>®</sup> Windows<sup>®</sup> XP Tablet PC Edition
- The product names of Windows Vista are as follows: Microsoft<sup>®</sup> Windows Vista<sup>®</sup> Ultimate Microsoft<sup>®</sup> Windows Vista<sup>®</sup> Business Microsoft<sup>®</sup> Windows Vista<sup>®</sup> Home Premium Microsoft<sup>®</sup> Windows Vista<sup>®</sup> Home Basic Microsoft<sup>®</sup> Windows Vista<sup>®</sup> Enterprise
- The product names of Windows 7 are as follows: Microsoft<sup>®</sup> Windows<sup>®</sup> 7 Home Premium Microsoft<sup>®</sup> Windows<sup>®</sup> 7 Professional Microsoft<sup>®</sup> Windows<sup>®</sup> 7 Ultimate Microsoft<sup>®</sup> Windows<sup>®</sup> 7 Enterprise
- The product names of Windows Server 2003 are as follows: Microsoft<sup>®</sup> Windows Server<sup>®</sup> 2003 Standard Edition Microsoft<sup>®</sup> Windows Server<sup>®</sup> 2003 Enterprise Edition
- The product names of Windows Server 2003 R2 are as follows:

Microsoft<sup>®</sup> Windows Server<sup>®</sup> 2003 R2 Standard Edition Microsoft<sup>®</sup> Windows Server<sup>®</sup> 2003 R2 Enterprise Edition

- The product names of Windows Server 2008 are as follows: Microsoft<sup>®</sup> Windows Server<sup>®</sup> 2008 Standard Microsoft<sup>®</sup> Windows Server<sup>®</sup> 2008 Enterprise
- The product names of Windows Server 2008 R2 are as follows: Microsoft<sup>®</sup> Windows Server<sup>®</sup> 2008 R2 Standard Microsoft<sup>®</sup> Windows Server<sup>®</sup> 2008 R2 Enterprise

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