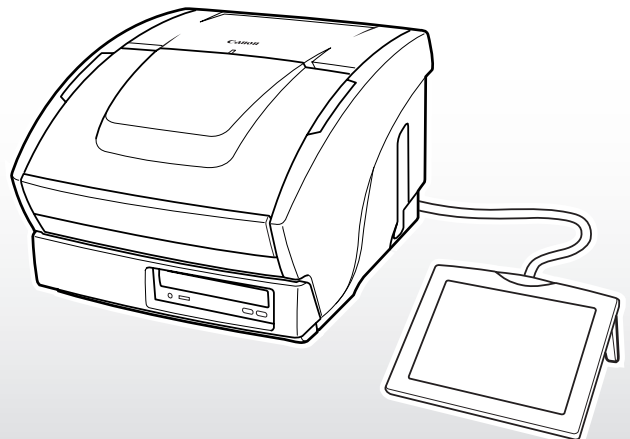


Canon

CD-R Document Recorder **CD-4070NW**

INSTRUCTIONS

Hardware Version



Please read this manual before operating the document recorder. After you finish reading this manual, store it in a safe place for future reference.

FCC REGULATIONS (For 120V/220-240V models)

CD-R Document Recorder, Model M11050

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A. Inc.

One Canon Plaza, Lake Success NY 11042, U.S.A.

Tel No. (516)328-5600

RADIO INTERFERENCE REGULATIONS (For 120V models)

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Industry Canada.

RÉGLEMENT SUR LE BROUILLAGE RADIOÉLECTRIQUE (For 120V models)

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", NMB-003 édictée par l'Industrie Canada.

Für EMVG

Dieses Produkt ist zum Gebrauch im Wohnbereich, Geschäfts-und Gewerbebereich sowie in Kleinbetrieben vorgesehen.

Für 3. GSGV

Maschinenlärminformationsverordnung 3. GSGV, 18.01.1991: Der höchste Schalldruckpegel beträgt 70 dB(A) oder weniger gemäß EN 27779.

(Hg) LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Diode Properties

Material: AlGaAs
Wavelength: 780-787nm
Emission Duration: Continuous
Laser Output Power
Objective lens Max emission light output Power
: 1.2mW(CW)(Read)
: min 77mW(Pulse)(Write)
Laser Diode Optical output
: 100mW(CW)
: 200mW(Pulse)
DHHS Class: Class I

ADVARSEL

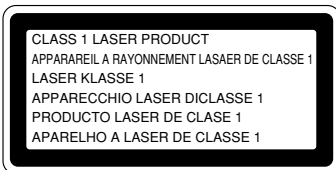
USYNLIG LASERSTRÅLING VED ÅBNING.
UNDGÅ UDSAETTELSE FOR STRÅLING.

VAROITUS

LAITTEEN KÄYTTÄMINEN MUULLA
KUIN TÄSSÄ KÄYTTÖOHJEESA
MAINITULLA TAVALLA SAATTA
ALTISTAA KÄYTTÄJÄN
TURVALLISUUSLUOKAN 1
YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE
LASERSÄTEILYLLE.

VARNING

OM APPARATEN ANVÄNDS PÅ ANNAT
SÄTT ÄN I DENNABRUKSANVISNING
SPECIFICERATS, KAN ANVÄNDAREN
UTSÄTTAS FÖR OSYNLIG
LASERSTRÅLNING. SOM ÖVERSKRIDER
GRÄNSEN FÖR LASERKLASS 1.



EN 60825-1:2001

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- We do not assume any responsibility for damage resulting from operations regardless of the information above.

■ Pay attention to the following points when you use this machine to record documents:

- The recording of bank notes, coins and government issue stocks and bonds is illegal, and is punishable.
- The recording of government issue passports, licenses issued by public authorities and private bodies, permits, official documents and private documents is also punishable.
- Works such as books, music, paintings, woodblock prints, maps, drawings, films, and photographs are used individually, within households, and in other equivalent limited scopes. For this reason, use other than for recording is forbidden.

■ This machine uses lithium batteries. To protect the environment and natural resources, contact your local authorized Canon dealer when you dispose of it.

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Welcome!

Thank you for purchasing the Canon CD-4070NW.

Two manuals are provided for the Canon CD-4070NW: Instructions (Hardware Version) and Instructions (Software Version). This manual describes how to operate the CD-4070NW Hardware.

Instructions (Hardware Version) describes the general features of the CD-4070NW. It also explains how to scan documents and troubleshoot problems, such as paper jams.

Instructions (Software Version) explains screen displays and how to use the touch panel.

Please read these manuals thoroughly before operating the document recorder in order to familiarize yourself with its capabilities, and to make the most of its many functions. After reading the manuals, store them in a safe place for future reference.

Read Me

To Ensure Safe Management of Recorded Data

1. Do not subject discs to shock.

If you subject a CD-R disc to shock while data is being written to it, the data currently being written including data that is already on the disc can be lost, and other errors may occur. If this happens, the lost data cannot be recovered. Canon cannot assume any responsibility for lost data. Therefore, please pay careful attention to subjecting the document recorder to shock during operation and, in particular, during writing to a CD-R disc.

2. Do not allow the label side of the CD-R to become dirty or scratched.

Data is recorded onto the label side of the CD-R. If the label side of the CD-R becomes dirty or scratched, any data on the disc may be lost. Also, writing on the label side of the CD-R with a ballpoint pen or a sharp instrument will damage the recording layer of the CD-R, and result in the data becoming unreadable.

In either case, it is impossible to retrieve data from a damaged disc. If you must write on the disc, always use a felt-tip pen or a pen with a soft point. Also, please be careful when handling discs.

3. Make backups.

CD-R discs can store a large volume of information. Therefore, a scratch on the disc can result in a large amount of data being lost. We strongly recommend making frequent backups using the disc copy function.

4. Prepare spare discs

Always keep at least one spare disc for backups, or if a disc becomes unusable.

5. Use only suitable discs.

Use only appropriate high-quality discs that are compatible with the CD-R document recorder drive. For details, contact your local authorized Canon dealer.

6. Be careful when using CD-R discs that have been written onto by this document recorder when used in other CD-R or CD-rewritable drives. If write operations are performed on discs using other drives, there is a possibility that discs could become unusable with the document recorder.

7. Always wait at least 10 seconds after turning the power OFF before you turn the power back ON.

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Conventions

The following symbols are used in this manual to explain procedures, restrictions, handling precautions, and instructions that should be observed for safety.



WARNING

Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. In order to use the machine safely, always pay attention to these warnings.



CAUTION

Indicates a caution concerning operations that may lead to injury to persons, or damage to property if not performed correctly. In order to use the machine safely, always pay attention to these cautions.



DISC SECURITY

Indicates a precaution that you must observe to ensure that data recorded on a disc is safely managed.



IMPORTANT

Indicates operational requirements and restrictions. Be sure to read these items carefully in order to operate the machine correctly, and to avoid damage to the machine.



NOTE

Indicates a clarification of an operation, or contains additional explanations for a procedure. Reading these notes is highly recommended.

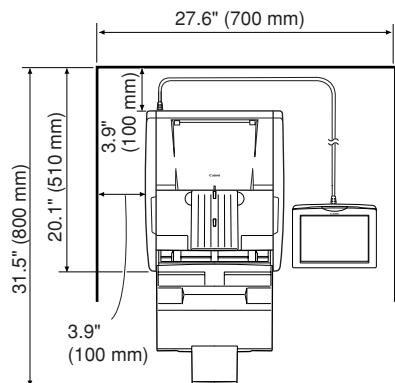
Chapter 1 Safety Precautions

To Ensure Safe Use of This Unit

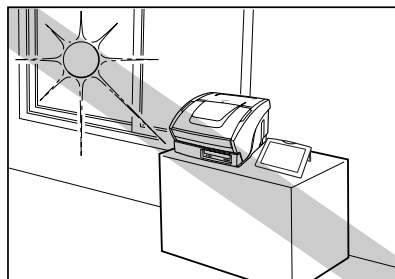
Be sure to read the safety precautions for the following items to ensure safe use of the document recorder.

Preparing a Location

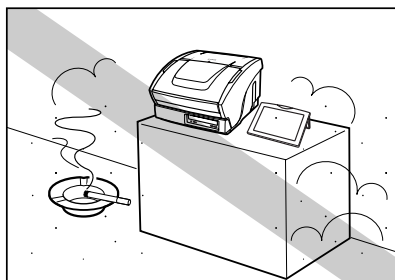
The capabilities of document recorder might be affected by the environment in which it is installed. Make sure that its location satisfies the following environmental conditions.



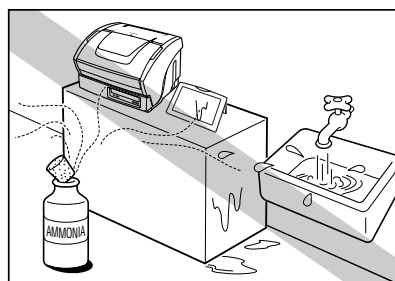
- Be sure that there is enough space around the document recorder for operation, maintenance and ventilation as shown in the illustration below.



- The document recorder should not be exposed to direct sunlight. If this is unavoidable, install heavy curtains on the windows.

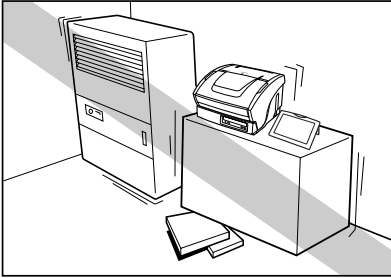


- Do not locate the document recorder in dusty locations. Dust entering the document recorder may adversely affect internal components.

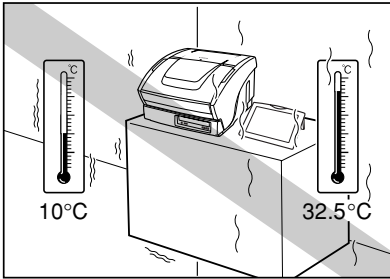


- Do not place the document recorder near locations subject to high temperature and humidity (e.g., water faucets, water heaters, humidifiers), or near locations subject to ammonia gas or other corrosive gases, or paint thinner.

Chapter 1. Safety Precautions

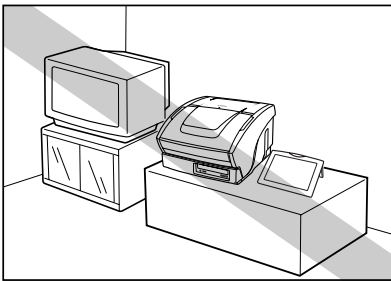


- Choose a location free of vibrations and strong shocks.



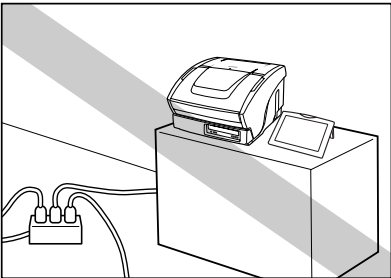
- Do not place the document recorder in a location subject to sudden changes in temperature. Condensation forming inside the document recorder might impair scan image quality. Use the document recorder in the following operating environment:

Room temperature	10°C to 32.5°C (50°F to 90.5°F)
Relative humidity	20% to 80% RH

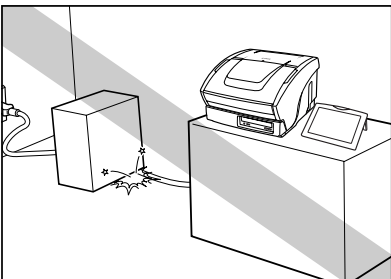


- Never place the document recorder near equipment, such as speakers, TVs or radios, that generate magnetic fields.

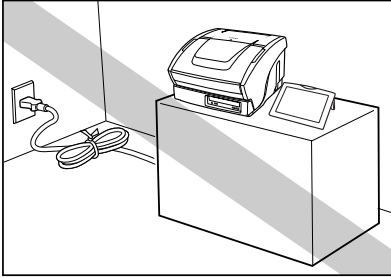
Power Supply



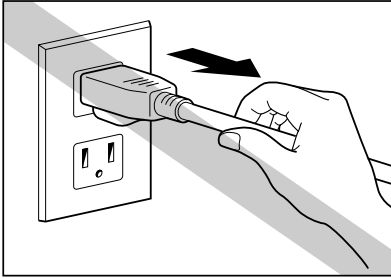
- Be sure to supply power only from a 120 V/220-240 V outlet or an uninterruptible power source (UPS).
- Do not plug the unit into an outlet shared with another device. When you use an extension cord, pay attention to the amperage of the extension cord.



- Never place an object on top of or tread on the power cord.



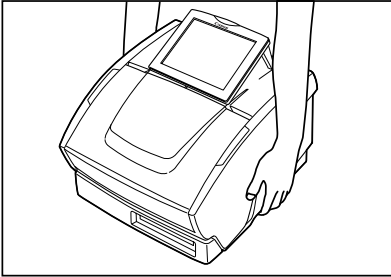
- Never bundle the power cord or wrap the cord around an object, such as a table leg.



- Do not tug on the power cord. When you unplug the power plug, be sure to firmly hold it by its plug head and not pull it out by the lead connected to the plug.
- Always wait at least 10 seconds after disconnecting the power cord before you insert the power plug into the power outlet again.

- Keep the area around the power outlet free of obstructions.
- If you are not sure of something regarding your power supply, contact your local authorized Canon dealer or power company.

Moving the Document Recorder



- When you move the document recorder hold it firmly with both hands as illustrated. The document recorder weighs approximately 33.1 lb (15 kg).
- Take care not to drop the touch panel when carrying the document recorder with the touch panel placed on the top.

Handling Precautions

WARNING

When you are working around the document recorder, follow these precautions to avoid the hazards of fire and electrical shock:

- Never install and operate the document recorder near flammable substances, such as alcohol and paint thinner.
- Never damage, break or modify the power cord, place heavy objects on the power cord, or tug or unnecessarily bend the power cord.
- Never grasp the plug when your hands are wet.
- Do not connect this unit to a power outlet shared with another device.
- Never bundle or tie the power cord. Connect the plug securely to the power source.
- Use only the power cord provided with the document recorder.
- Never attempt to disassemble or modify the document recorder.
- Never use flammable aerosol products near the document recorder.
- Before you clean the document recorder, turn the power OFF and disconnect the power cord from the power outlet.
- To clean the document recorder, use a firmly wrung soft cloth moistened with water or a neutral detergent. Never use flammable substances, such as alcohol, paint thinner, or benzene.
- If the document recorder exhibits abnormal symptoms, including abnormal sounds, smoke, heat or smell, immediately disconnect the power plug from the power outlet. Then, contact your local authorized Canon dealer immediately.
- Do not drop, bump, or subject the unit to strong shock. If you suspect the document recorder has been accidentally damaged, immediately turn the power OFF, disconnect the power cord from the power outlet, and then contact your local authorized Canon dealer immediately.
- Before you move the document recorder, always turn the power OFF and disconnect the power cord from the power outlet.



⚠ CAUTION

- Do not locate the document recorder at an unstable location, such as a rocky workbench, other inclined surface, or at a location subject to vibration. Otherwise, the document recorder might fall down and cause unexpected injury.
- Do not block the air vents. Doing so might cause heat build-up inside the document recorder or a fire.
- Do not place cups, vases and other containers filled with water, clips, staples, necklaces, or other metal objects on the document recorder. If these items spill or enter inside the document recorder, they may cause a fire or electrical shock. If you accidentally spill something into the document recorder, turn the power OFF, disconnect the power cord from the power outlet, and call for service immediately.
- Do not install the document recorder in locations subject to dust or humidity. This can cause a fire or electrical shock.
- Never place heavy objects on top of the document recorder. Otherwise, they might fall down and cause unexpected injury.
- Use only a power supply having the rated voltage. Do not use a power supply having a different voltage. Otherwise, it may cause a fire or electrical shock.
- When you remove the power cord, grip it by the plug head. Never attempt to disconnect the power cord from the power outlet by pulling on the power cord. Otherwise, the power cord may become damaged by exposure of the core leads or broken leads, and may cause a fire or electrical shock.
- Keep the area around the power outlet clear of all obstacles so you can disconnect the power cord easily at all times.
- Do not spill water or flammable substances (alcohol, paint thinner, benzene, etc.) inside the document recorder. Otherwise, they might cause a fire or electrical shock.
- If you are not using the document recorder for an extended period of time, always disconnect the power cord from the power outlet beforehand for safety.
- Avoid wearing loose, baggy clothing when you operate the document recorder, and accessories that may become caught on the document recorder during operation. Clothing or accessories may become entangled in the document recorder, and lead to injury. Pay particular attention to neckties and long hair. If clothing or accessories should become caught inside the document recorder, immediately disconnect the power cord to stop the document recorder.
- Handle paper carefully when you place documents or remove jammed paper. Otherwise, you may suffer an unexpected injury, such as cutting your hand on the edge of the paper.

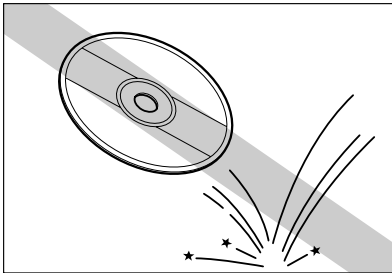
Disc Handling

The CD drive on the document recorder is a CD-rewritable drive. However, this system prohibits documents recorded on discs from being deleted, and prohibits the use of CD-RW discs that allow data to be deleted. With the document recorder only use 650/700 MB CD-R discs that comply with the Recordable Compact Disc Security System Part II Standard (Orange Book).

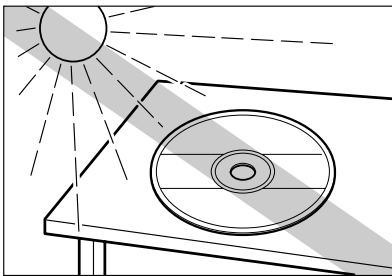
DISC SECURITY

- Damaged discs whose data can no longer be read cannot be repaired. Canon assumes no liability for damaged discs.
- Never use scratched or chipped discs. Doing so might damage the document recorder or cause it to malfunction.
- Use only discs carrying the  mark on this unit. You cannot use discs carrying the  mark.

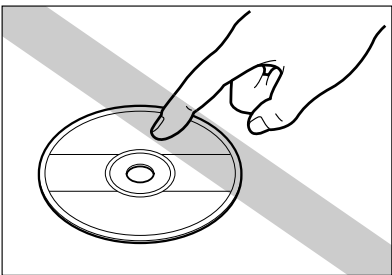
Handling Precautions



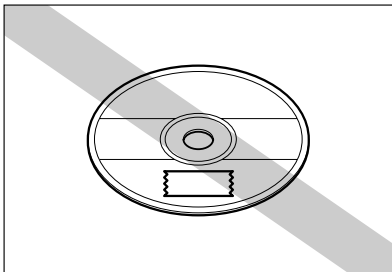
- Do not drop or subject discs to shock.



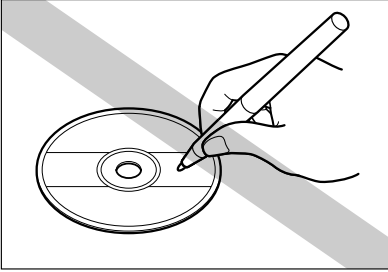
- Do not subject discs to the direct sunlight.



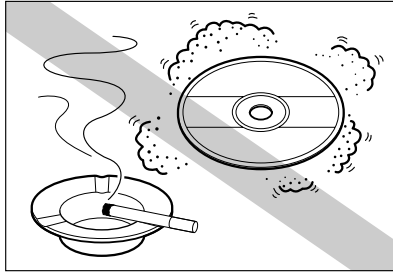
- Do not touch the recording surface or the label surface of the disc.



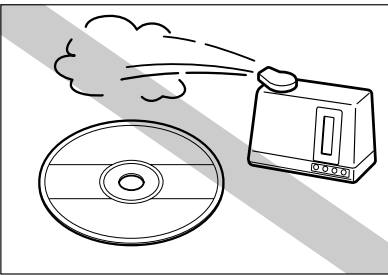
- Do not affix paper or tape on the recording surface or the label surface.



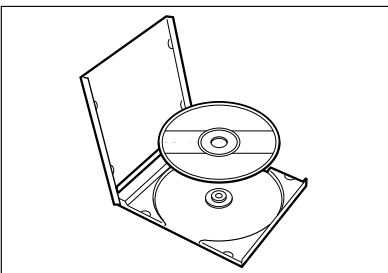
- When you write on the label surface of the disc, use a soft felt-tipped pen. Do not use hard-tip pens, such as ball-point pens.



- Do not store discs in dusty locations or locations where they may be subject to cigarette smoke.



- Do not use or store discs in a location where a humidifier is in operation.



- When you store a disc, insert it in its case, and store the disc in a safe place.

- If the disc surface becomes dirty with fingerprints, wipe it clean with a soft, dry cloth from the center of the disc outwards.
- When you have finished using a disc, eject and insert it in its case, and store the disc in a safe place.

Features of the CD-4070NW

The CD-4070NW is a high-speed document recorder that integrates a scanner unit, control unit, and recording unit. Microsoft Windows XP is used as its operating system. Scanning has been made easy by combining preinstalled document management software with a touch panel for its control unit. CD-R discs that comply with the Recordable Compact Disc Security System Part II Standard (Orange Book) are used as the document recorder's recording medium. This allows you to search and display data that has been recorded on the CD-4070NW on ISO9660 Level 3-compliant CD-ROM drives on personal computers.

Here is a summary of the outstanding features of CD-4070NW:

■ High-Speed Paper Feed

In spite of the document recorder's small size, it can scan documents from business card size up to B4 size at high speed (up to 40 A4 size documents ppm in the simplex mode).

■ High Durability

A highly durable design provides scanning for up to three million scans.

■ Automatic Document Size Detection

The size of the scanned document is automatically detected, and areas around the document are cropped. This reduces the size of the document and saves storage space.

■ Color/Grayscale Support*

Documents can be scanned at 24-bit color and 256-level grayscale.

(*)When scanning at 24-bit color,

24-bit color scanning is supported only for the front side of the document. If 24-bit color is selected and then both sides of a document are scanned, the back side is scanned at 256-level grayscale.

■ Dropout Color (Front Side Only)

This function lets you skip ("drop out") a specific color when scanning.

■ Skew Correction

If the document is fed at a slant, the scanned image is straightened to correct this before saving.

■ Text Mode

Text mode enables documents marked in light pencil or with strong background tones to be scanned clearly.

■ Skip Blank Page

The Skip Blank Page function detects any blank pages that have been scanned, and automatically discards the data.

■ 52x Writable High-Speed CD-R Drive

Supports high-speed writing onto CD-R discs at speeds of up to 52x. If the CD-R disc does not support high speed writing, the write speed can be configured to a speed that is supported.

■ Patch Code Recognition

Enables documents to be split into separate files whenever pages that contain patch codes are detected.

■ Barcode (Optional) , MICR, and OCR Input Functions

Barcodes (optional), MICR fonts (E13B only), and characters on specific areas of the scanned image can be read in and saved into fields. (See "Barcodes," on p.13.)

■ **Function for Creating PDF Files with Text Attached**

When documents are recorded in PDF format, text extracted using the OCR function can be attached to and saved with the PDF file.

■ **Network Function**

The document recorder can be connected to a network via its internal Ethernet card. When connected to a network, data can be recorded in shared network folders and accessed directly without a CD-R by computers on the network. In addition, registered images and text can be sent by email.

■ **Backup Management Function**

Data scanned with the CD-4070NW is backed up internally, and then written to the CD-R. Because the data is backed up, duplicate copies of the same disc can be made, and data can be copied onto another disc if one disc is damaged. (See “Backup Management,” on p.13.)

■ **Web Search Function**

Data backed up with the CD-4070NW can be searched, viewed and downloaded from network computers by using a web browser. (See “Web Search Function,” on p.14.)

■ **Uninterruptible Power Source (UPS) Support**

The document recorder provides support for a UPS, so that even if power is suddenly lost while in use, your important data is preserved without bringing the system down. For details on how to use a UPS, please contact your local authorized Canon dealer.

Barcodes (Optional)

The barcode input assist function (See “Barcode (Optional), MICR, and OCR Input Functions,” on p.12.) is an optional accessory. If you wish to use it, a service representative must install the barcode module. Please contact your local authorized Canon dealer.

Backup Management

CD-R disc data generated by recording documents is backed up internally to the CD-4070NW, so multiple copies of the same disc can be made, or a CD-R disc can be returned if one is damaged.

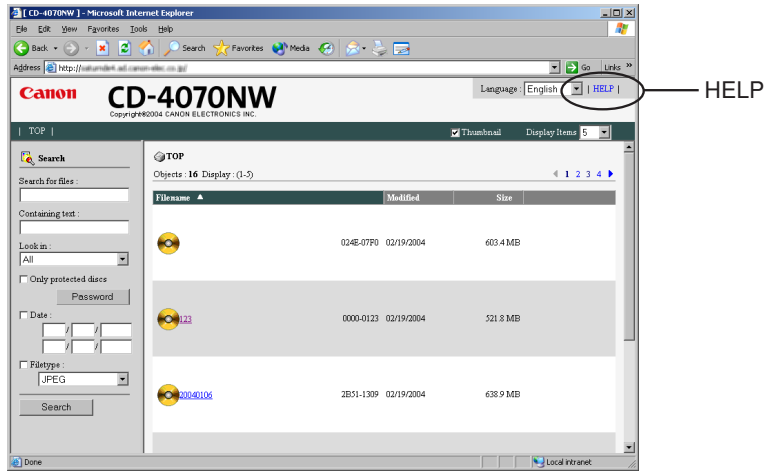
The limit on the amount of data that can be backed up is governed by the capacity of the hard disk installed. At the time of this writing (May 2004), the maximum amount of data that can be saved is equivalent to 46 CD-Rs, although this specification may change in the future.

For information on backup management, see the “CD-R Document Recorder CD-4070NW Instructions (Software Version).”

Web Search Function

The web search function enables the data backed up to the document recorder to be published over a network so that it can be searched, viewed, and downloaded from other computers by using a web browser. The entire back up data can be searched by keyword, so even high volume discs can be searched for documents. This capability greatly reduces the labor involved in finding a particular document on high volume discs.

For information on the various web pages, refer to the online Help.

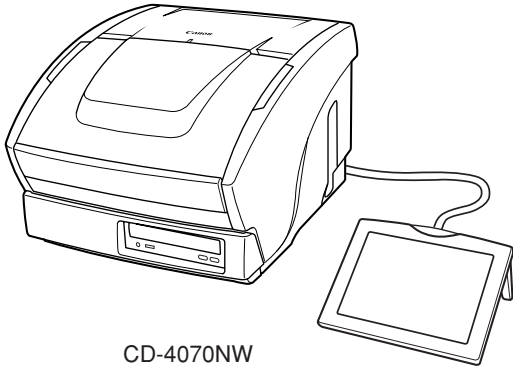


NOTE

The web search function needs to be configured for your network environment. Your local authorized Canon dealer will configure or confirm operation of the web search function in the presence of your network administrator.

Packaging Contents

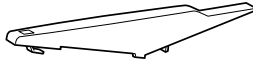
Make sure that the package contains all of the components in the illustration below. If any component is missing, contact your local authorized Canon dealer.



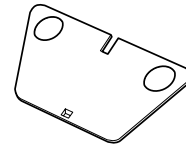
CD-4070NW



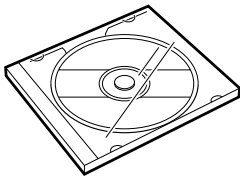
Instructions
(Hardware Version, Software Version)



Document Eject Guide



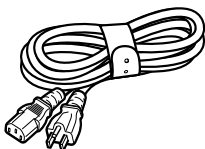
Auxiliary Paper Support Plate



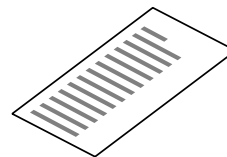
CD-R (Disc for Recording)



Quick Reference Guide



Power Cord*1



Warranty Card*2

*1 The power cord varies according to country of purchase.

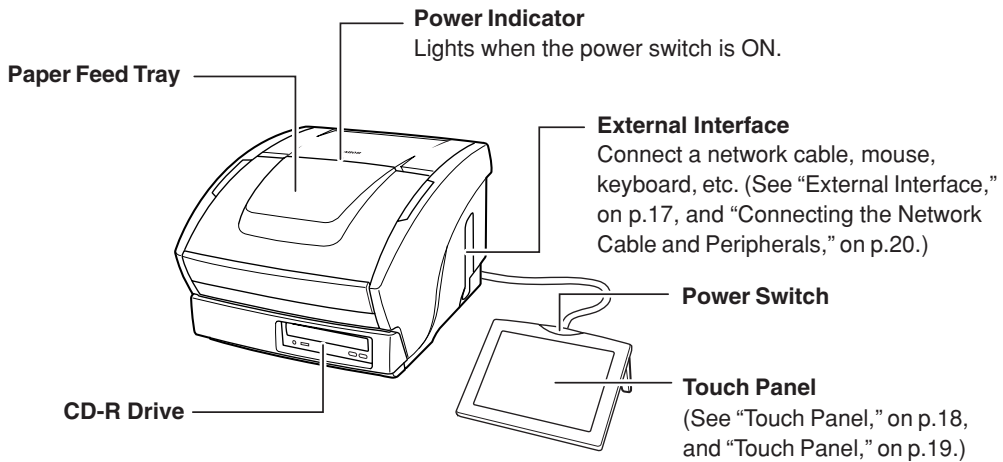
*2 For U.S.A. and Canada only.

● The package contents may change without notice.

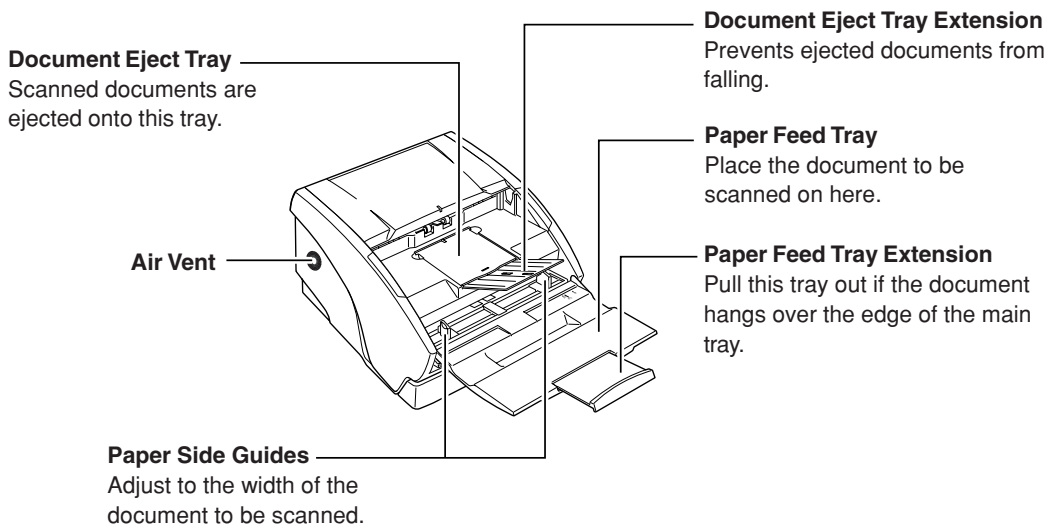
Part Names and Functions

This section describes the functions of each of the parts. Familiarize yourself with them before you connect the document recorder.

■ Front View



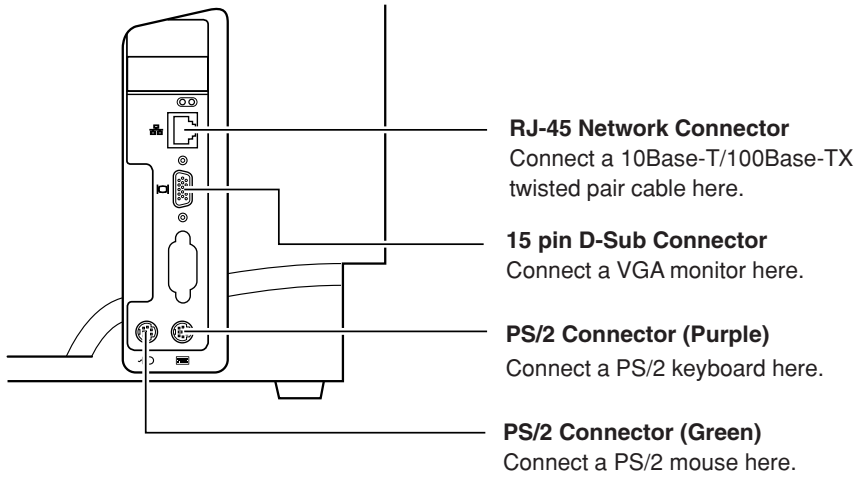
■ Front View (with Paper Feed Tray Open)



⚠ CAUTION

Never block the air vents. Doing so might cause heat build-up inside the unit or a fire.

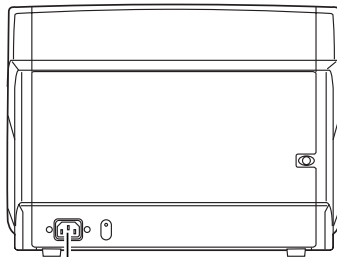
External Interface



NOTE

The VGA monitor output resolution is 640 x 480 dpi.

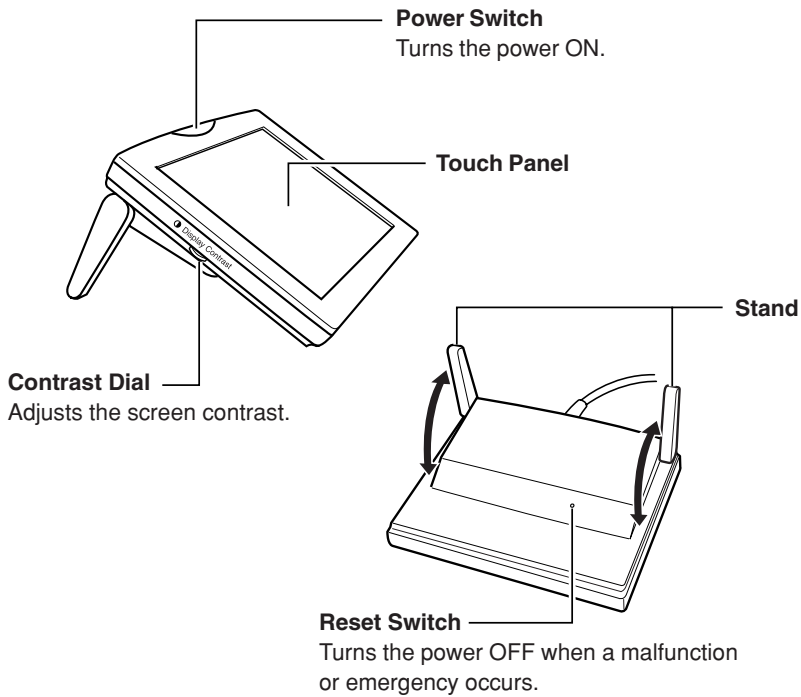
Back View



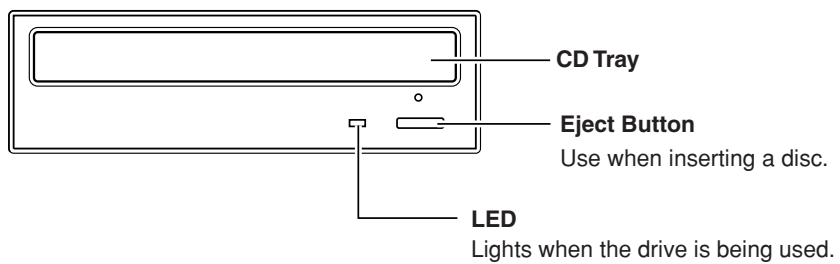
Power Cord Connector

This is used for connecting the power cord (supplied).

■ Touch Panel



■ CD-R Drive



NOTE

The unit disables discs from being ejected with the eject button. (See “Ejecting Discs,” on p.25.)

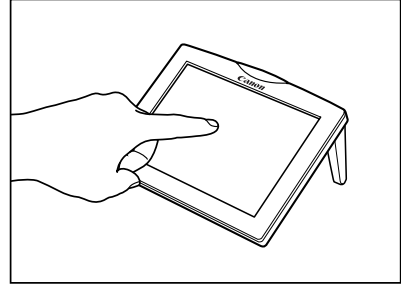
Touch Panel

The document recorder is operated via a touch panel screen. This screen can be operated by lightly touching the buttons that are displayed on the screen.

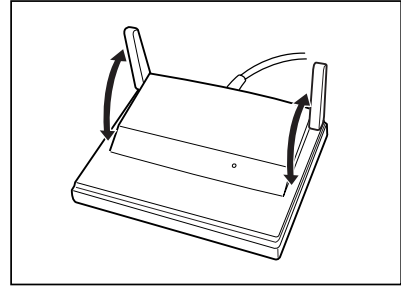


NOTE

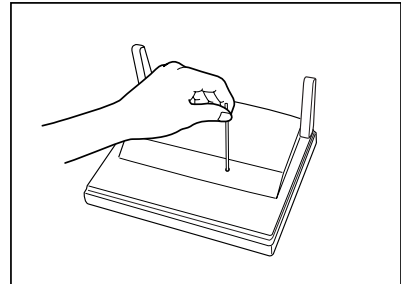
- Be sure to touch the touch panel only with your fingertip. Do not touch it with sharp pointed objects, such as your fingernail or a ball-point pen. Doing so might scratch the screen surface and cause the screen to malfunction.
- When touching buttons, take care to touch only the required area. Touching other areas on the screen may cause a malfunction.



- You can use the stands to adjust the angle of the touch panel.



- If a screen is not displayed when the power turns ON, or there is no response by touching the touch panel, push a long, thin object, such as the tip of 0.04" to 0.06" (1.0 mm to 1.5 mm) dia. gage wire, into the hole of the reset switch to turn the power OFF, then wait at least 10 seconds before turning the power back ON.

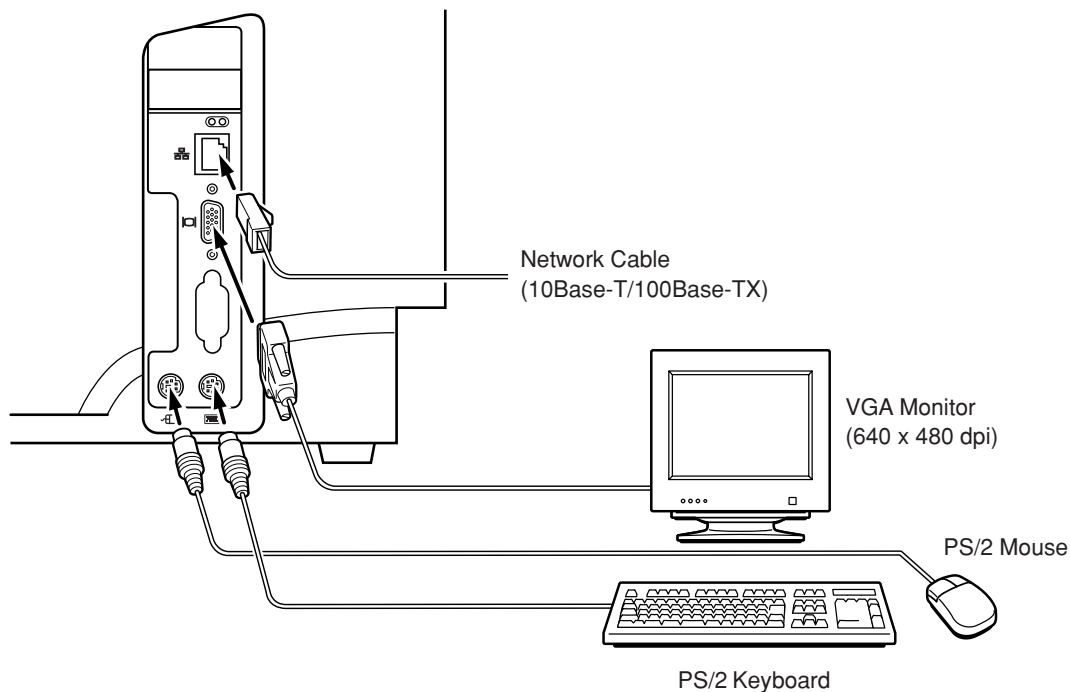


Chapter 3 Getting Started

This chapter describes how to prepare the machine before using it with procedures for connecting cables, turning the power ON/OFF, and inserting/removing discs.

Connecting the Network Cable and Peripherals

To use the CD-4070NW over a network, connect a 10Base-T/100Base-TX compliant network cable to the rear of the scanner. Connect a mouse, keyboard, and monitor according to your preference.



IMPORTANT

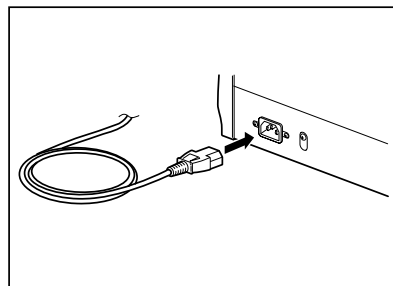
- Connect a mouse and keyboard before turning the scanner ON.
- Your local authorized Canon dealer will configure or confirm the network settings in the presence of your network administrator.
- A mouse and keyboard are required in order to configure the network environment and other settings.

Connecting the Power Cord

Connect the power cord provided with the document recorder to the power connector on the rear of the document recorder, and insert the power plug into the power outlet.

IMPORTANT

- Use only the power cord provided with the document recorder.
- When using an uninterruptible power source (UPS), insert the power plug into that.
- Be sure to connect the power cord while the document recorder's power switch is in the OFF position.



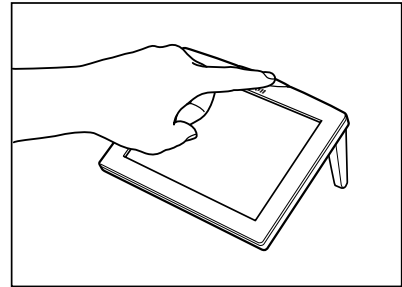
Turning the Power ON/OFF

The section describes the procedure for turning the power ON or OFF.

Turning the Power ON

When the power is turned ON, the CD-4070NW application automatically starts up.

- 1 Press the power switch on the touch panel.
The power indicator on the center of the document recorder lights green, and the document recorder is turned ON.



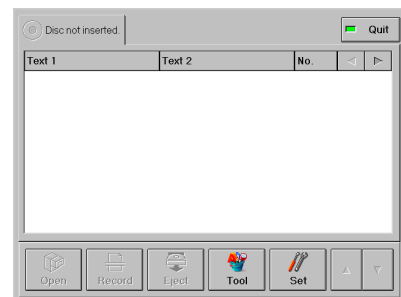
- 2 The Startup screen is displayed, followed by the Main screen.

IMPORTANT

- Do not touch the document recorder or touch panel until the Main screen is displayed.
- If at least 5 seconds have elapsed after turning the power on and the touch panel still remains blank, press the reset switch located at the rear of the touch panel. If after you turn the power back ON again nothing is still displayed, please contact your local authorized Canon dealer.
- For explanations of the screens, see to the “CD-R Document Recorder CD-4070NW Instructions (Software Version).”



Startup Screen



Main Screen

Turning the Power OFF

The document recorder is turned OFF when the application is terminated.

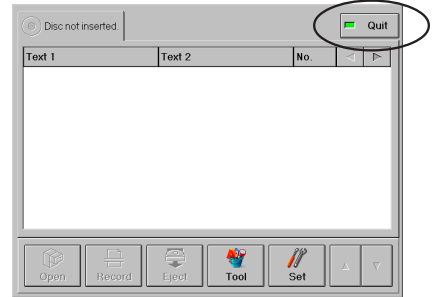
⚠ CAUTION

If you do not intend to use the document recorder for an extended period of time, always disconnect the power cord from the power outlet beforehand for safety.

📄 NOTE

- Always remove the CD-R disc before exiting the application.
- Always wait at least 10 seconds after turning the power OFF before you turn the power back ON.

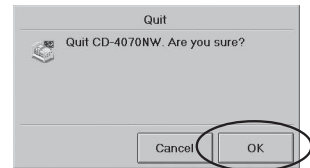
- 1 Press [Quit] on the Main screen.
The <Quit> confirmation message is displayed.



- 2 Press [OK].

📄 NOTE

If a disc is loaded, an <Error> message is displayed. Press [OK] → [Eject] → [OK] → remove the disc → press [Quit] → [OK].



How to Insert/Eject Discs

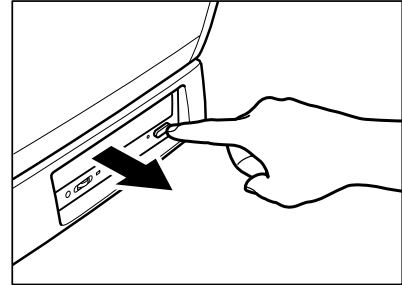
This section describes how to insert and eject discs.

Inserting Discs

- 1 Press the eject button to open the CD drive.

**NOTE**

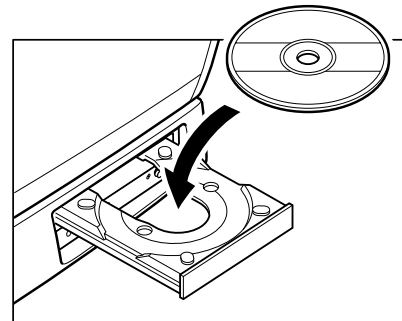
If a disc is already inserted, the CD drive will not open even if you press the eject button. Press the [Eject] button on the Main screen and remove the disc. (See “Ejecting Discs,” on p. 25.)



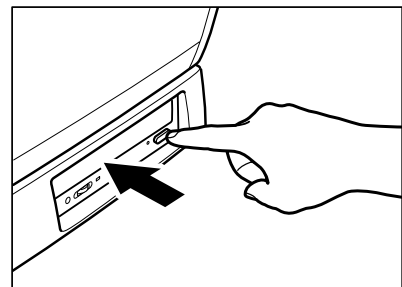
- 2 Place the disc in the CD tray with the label facing up.

**DISC SECURITY**

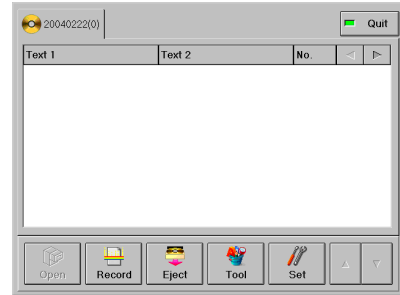
- When handling CD-R discs, never touch the label side.
- Data is recorded on the label side of the CD-R. If the label side becomes dirty or scratched, any data on the disc may be lost. If this happens, lost data cannot be recovered, so be careful when handling discs.



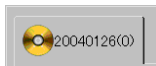
- 3 Press the eject button, or lightly push the CD tray to close it.



- 4 The inserted disc is recognized.
The disc icon displayed in the top left of the display changes according to the type of disc inserted.

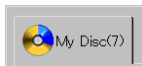


The disc icon displayed in the upper left side of the screen changes as shown below according to the disc that was inserted.



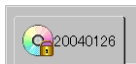
(Blank disc)

Today's date is assigned as the initial value for the disc's name. For details on how to change the disc name, see the "CD-R Document Recorder CD-4070NW Instructions (Software Version)."



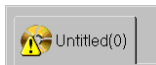
(Loaded disc)

The volume of data on the disc is displayed in blue.



(Protected or Locked disc)

You cannot write documents to a disc indicated by this icon.



(Abnormal disc)

The CD-4070NW cannot recognize or use this disc. Replace the disc with a different disc.

Ejecting Discs

Use the touch panel to eject a CD-R disc.

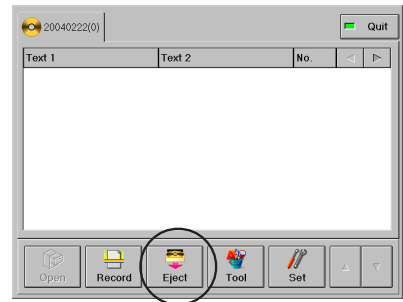
DISC SECURITY

Recorded data that was backed up to the hard disk is written to the CD-R before the disc is ejected. Ejecting a disc can take a few minutes or longer, depending on the amount of data that is being written to it. Do not touch the unit until writing to the disc has completed normally.

- 1 Press [Eject] on the Main screen.
The Eject Disc screen is displayed.

NOTE

Do not use the eject button on the CD drive to eject a disc. The document recorder disables discs from being ejected with the eject button.



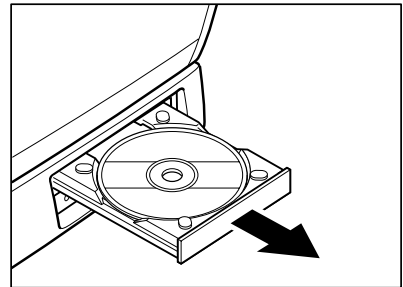
- 2 Press [OK].
Data that is not already written to the disc is now written.

NOTE

Selecting [Inhibit re-write] in the Eject Disc screen will prevent data from being rewritten.



- 3 The tray opens when writing to the disc is finished.

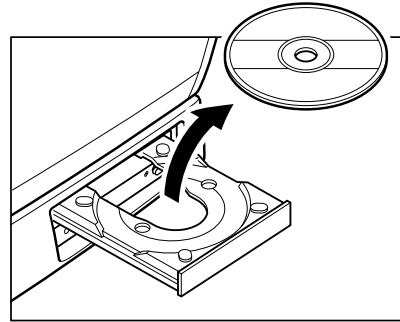


4 Remove the disc.

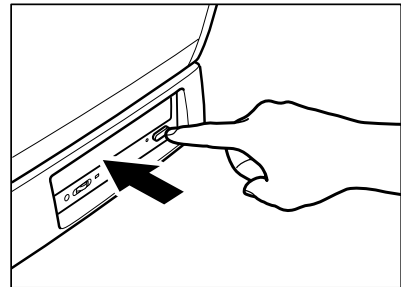


DISC SECURITY

- After ejecting a disc, insert it in its case and store in a safe place.
- Damaged discs whose data can no longer be read cannot be restored. Canon assumes no liability for damaged discs.



5 Press the eject button, or lightly push the CD tray to close it.



Chapter 4 Using the CD-4070NW

Document Handling

The CD-4070NW can accept a wide variety of document sizes, from business card and personal checks to legal size. The specifications for a document are:

- Width: 2.2" to 10.1" (55 mm - 257 mm)
2.8" to 10.1" (70 mm - 257 mm) with automatic size recognition
- Length: 2.8" to 14.3" (70 mm - 364 mm)
- Thickness: 0.0024" to 0.059" (0.06 mm - 0.15 mm) with automatic feed
0.0019" to 0.0079" (0.05 mm - 0.2 mm) with manual feed
- Weight: 14 to 32 lb bond (52 - 128g/m²) with automatic feed
11 to 40 lb bond (42 - 157g/m²) with manual feed

Follow these guidelines when you prepare an document for scanning:

- To avoid paper jams, all the documents in a batch should be of the same size, thickness, and weight.
- Documents whose ink has not yet dried may cause a malfunction. Make sure that the ink has dried before the original is scanned.
- Graphite from the surface of a document written in pencil may stain the scanning rollers. After scanning an document written in pencil or some other sort of writing material, be sure to clean the scanning rollers.
- When recording both sides of documents made from thin paper, the back side might show through on the recorded image. Check the image by previewing it and adjust the brightness before recording.
- To avoid paper jams, do not feed the following types of paper into the document recorder. Make a copy of such originals for scanning.



Wrinkled or creased paper



Carbon paper



Curled paper



Coated paper



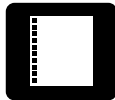
Torn paper



Onion skin or other thin paper



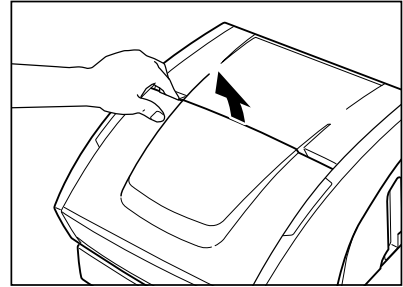
Stapled paper or paper with clips



Paper punched with square holes

Preparing the Paper Feed Tray and Document Eject Trays

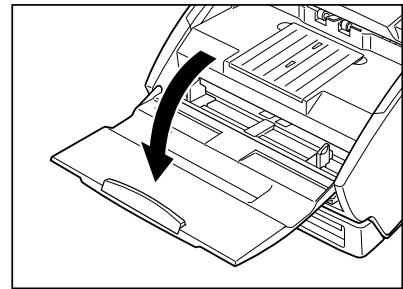
- 1 Hold the edge of the paper feed tray and open it.



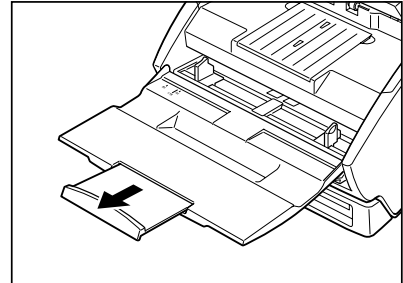
- 2 Gently open the paper feed tray toward you.

⚠ CAUTION

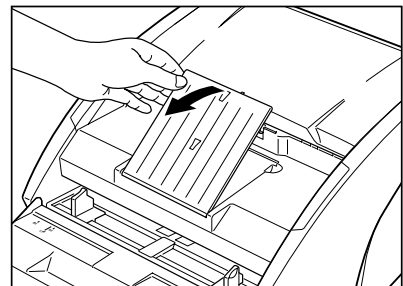
Other than documents, do not place heavy objects on the paper feed tray. Doing so may result in them falling unexpectedly causing injury or damaging the document recorder.



- 3 If you are going to scan long originals, pull out the paper feed tray extension.



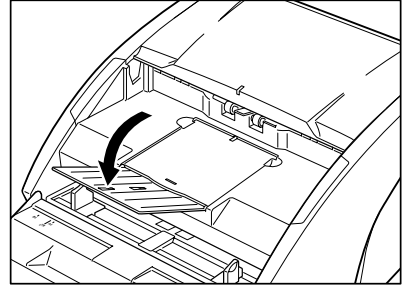
- 4 Hold the edge of the document eject tray extension and open it.



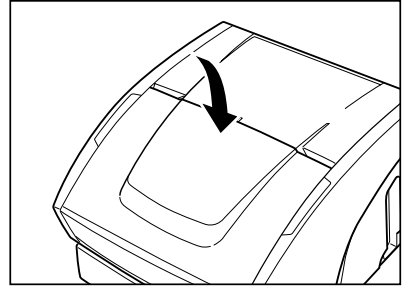
- 5 Gently open the document eject tray extension toward you.

**NOTE**

Be sure to open the document eject tray extension. Otherwise, ejected originals may fall down and cause paper jams.

**IMPORTANT**

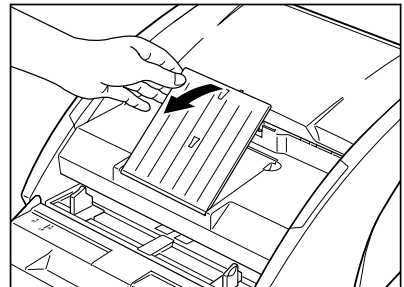
After recording has finished and when not using the document recorder, close the paper feed tray and document eject tray extension to avoid damage to the document recorder.



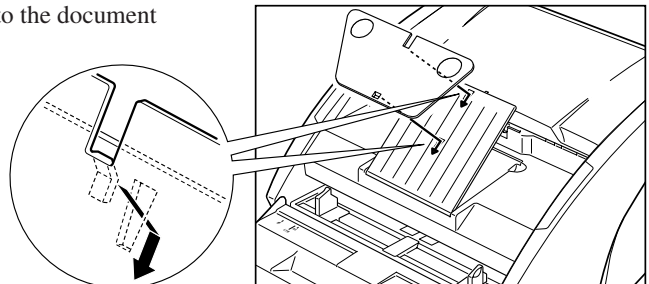
Setting the Document Eject Guide

To avoid paper jams when scanning thin or long documents, set the document eject guide supplied with the document recorder.

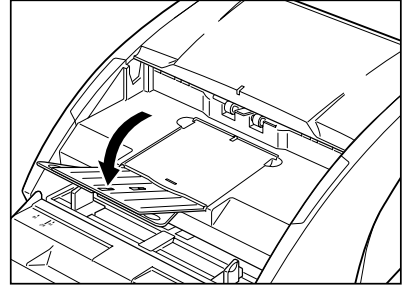
- 1 Hold the edge of the document eject tray extension and open it.



- 2 Attach the auxiliary paper support plate to the document eject tray extension.

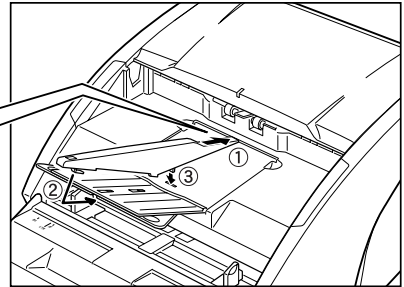
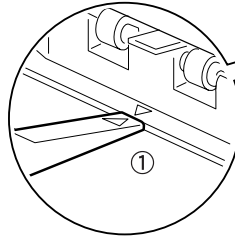


- 3 Gently open the document eject tray extension toward you.



- 4 Attach the document eject guide to the document eject tray extension in the order illustrated.

Install it so that the (▽) mark on the guide is aligned with the (△) mark on the body.

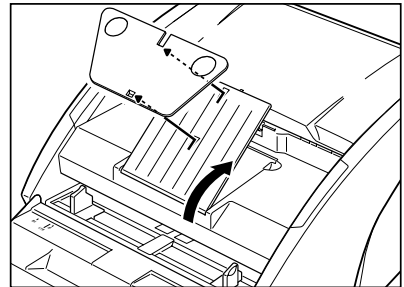
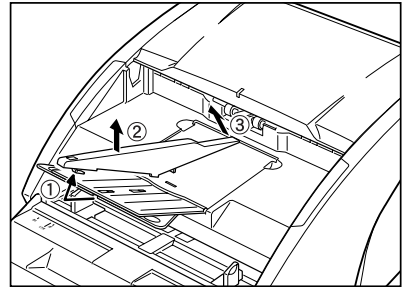


- 5 To remove the document eject guide, follow the above procedure in reverse.



NOTE

- After the original eject guide is set in place, the method of scanning is the same as when you make regular scans. However, note that particularly thick and rigid documents may not stack on the extension easily. In this case, we recommend removing the document eject guide before use.
- Before you close the document eject tray extension or paper feed tray, be sure to remove the document eject guide.



Document Feeding

The document recorder provides three feeding methods: standard, automatic, and manual. The procedures for using each are different.

This section explains the basic procedure for each feeding method. For information on each of the screens, see the “CD-R Document Recorder CD-4070NW Instructions (Software Version).”

Standard Feeding: **Records one document stack at a time.**

After being initiated, recording ends when no more document pages remain in the paper feed tray.

Automatic Feeding: **Recording continues each time the sensor detects a document.**

If the sensor detects a document after recording has been initiated and before it is terminated, recording continues.

This enables high volume documents to be recorded in one run.

Manual Feeding: **Documents are recorded by loading one page at a time manually into the paper feed tray.**

Use when scanning documents made from paper that does not feed properly, paper that is prone to cause paper jams, or from thin paper.

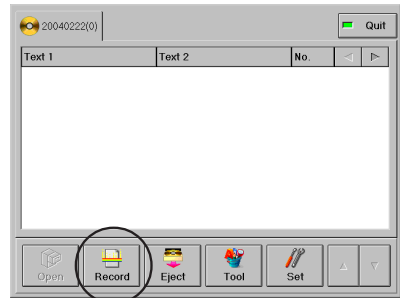
CAUTION

Avoid wearing loose, baggy clothing and accessories that may become caught on the document recorder during operation. Clothing or accessories may become entangled in the document recorder, and lead to injury. Pay particular attention to neckties and long hair. If clothing or accessories should become caught inside the document recorder, immediately disconnect the power cord to stop the document recorder.

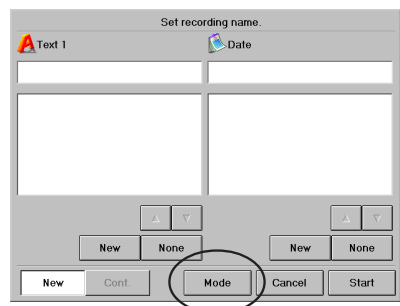
NOTE

To avoid tearing the document, jamming, or damaging the document recorder, remove all paper clips, staples or any other type of fasteners from the document pages before you place them in the document recorder.

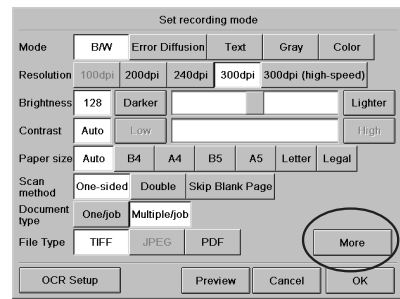
- 1 Press [Record] on the Main screen.
The Set recording name screen is displayed.



- 2 Press [Mode].
The Set recording mode screen is displayed.



- 3 Press [More].
The More settings screen is displayed.

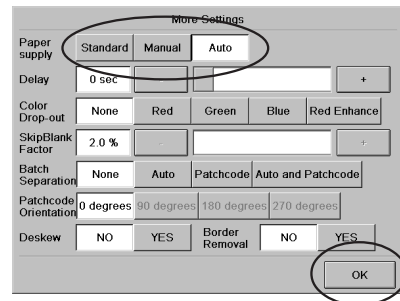


- 4 Select [Standard], [Manual], or [Auto] → press [OK] → [OK].
The Set recording name screen is displayed.



NOTE

If [Manual] is selected, the paper feed tray exit raises ready for manual feeding.



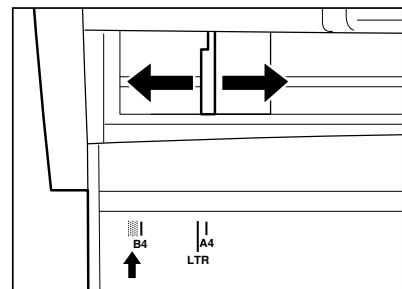
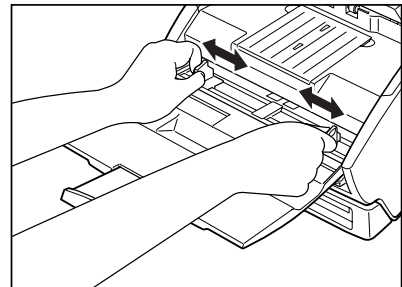
Standard and Automatic Feeding

- 5 Adjust the paper side guides to match the width of the document you are going to scan. If you are recording standard size documents, align the document with the document positioning mark.

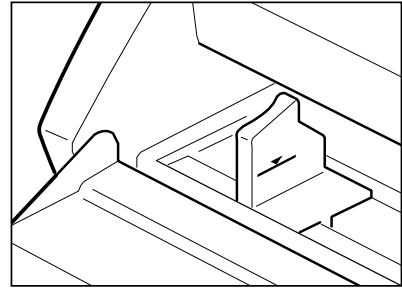


NOTE

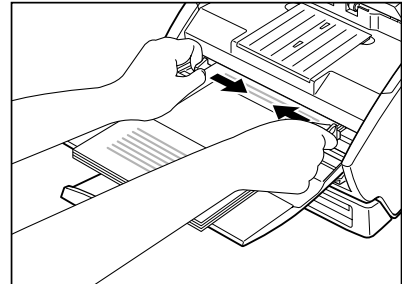
To avoid paper jams, do not set the edge of the document in the area (⊗) shown in the illustration.



- The paper side guide is inscribed with a loading limit mark (▼). This mark indicates the total thickness of approximately 100 sheets of plain paper for recording (80 g/m²). Do not place documents above this mark. Otherwise, this may result in a paper jam.



- 6 Place the document face up, then adjust the paper side guides to match the width of the document.

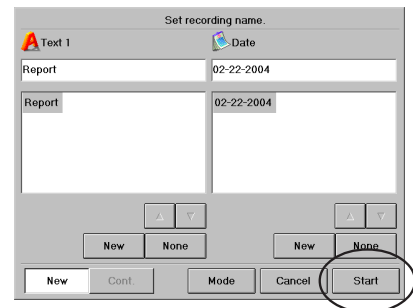


- 7 Specify the recording name → press [Start].
For information on how to specify the recording name, see “CD-R Document Recorder CD-4070NW Instructions (Software Version).”
Recording starts.



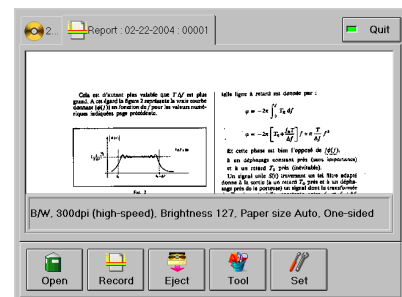
NOTE

- If feeding stops while recording due to a system error or paper jam, resolve the problem, confirm that the last document page fed was correctly recorded, and then continue recording.
- Take care that documents with low paper thickness do not fall from the document eject tray.



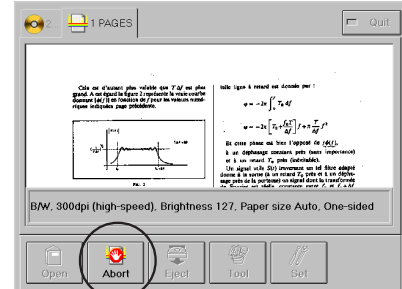
- 8 When no more document pages remain.
If you selected [Standard] Feeding:

Recording ends when no more document pages remain, and the document image is displayed.



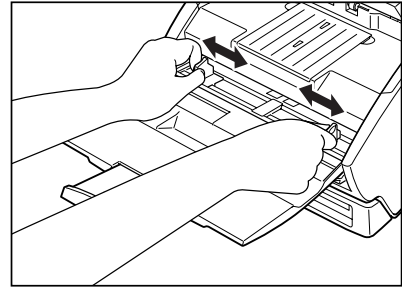
If you selected [Auto] Feeding:

Recording is suspended. Recording continues if a document is loaded and detected. Automatic feeding can be repeated until you press [Abort].

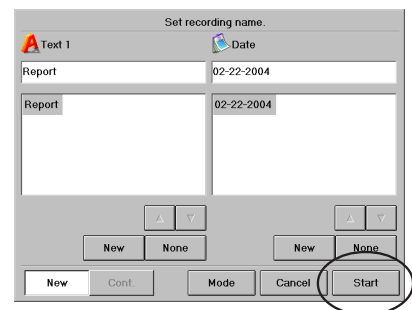


Manual Feeding

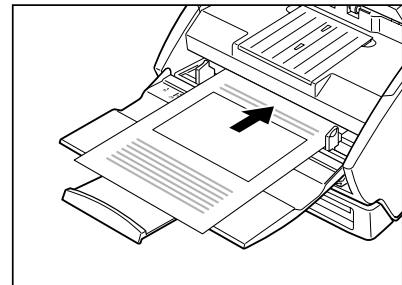
- 5 Adjust the paper side guides to match the width of the document you are going to scan. If you are recording standard size documents, align the document with the document positioning mark.



- 6 Specify the recording name → press [Start]. For information on how to specify the recording name, see “CD-R Document Recorder CD-4070NW Instructions (Software Version).”

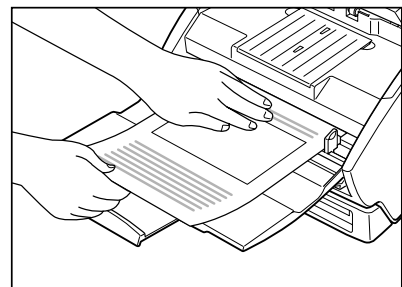


- 7 Place one sheet face up with the top inserted into the document recorder. The sheet starts to feed immediately.

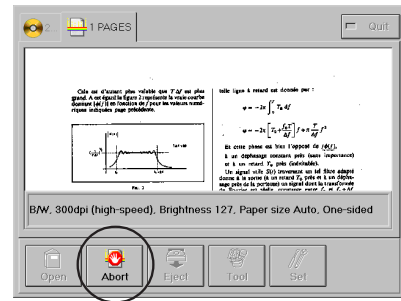


NOTE

Particularly thin documents or curled documents are sometimes not fed successfully. If this happens, hold down the leading edge of the document with your hand when placing them for scanning, or make copies on a copier and feed the copy into the document recorder.



- 8** Load the next document.
Recording continues if a document is loaded and detected.
Manual feed can be repeated until you press [Abort].



Patch Code Sheets

Patch code sheets are sheets printed with “patch code” patterns on them. They enable documents to be automatically segmented into files during continuous feeding without interrupting the recording operation. If a patch code sheet is scanned and the patch code detected, the file is automatically segmented.



NOTE

For information on using patch code sheets, see the “CD-R Document Recorder CD-4070NW Instructions (Software Version).”

Patch Code Pattern Functions

The following two patch codes work in different ways:

PATCH T (FILE A)



- When this pattern is detected on a patch code sheet, file segmentation occurs from the next document.
- Sheets printed with this pattern are not included in the recorded document.

PATCH II (FILE B)

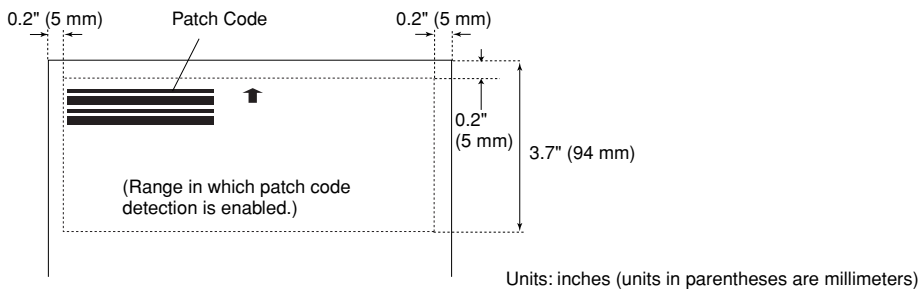


- When this pattern is detected on a patch code sheet, file segmentation occurs at this sheet.
- Sheets printed with this pattern are included in the recorded document.

Creating Patch Code Sheets

Make copies of the patch code patterns provided at the rear of this manual. Follow the guidelines below when copying patch code patterns.

- Copy the patch code patterns onto paper of the same type as that of the document to be scanned. If the paper thickness substantially differs, a feed error may occur.
- Copy patch code patterns ensuring that the copies maintain the same size and image density as that of the document. If the copies are too light or dark, they may not be scanned properly.
- Copy patch code patterns so that they are positioned on the page within the detectable area specified below.



- Take care not to get patch code sheets dirty, especially within the detectable area. In order for the sheets to be scanned properly, make sure they do not get folded or crumpled.
- If the image density is too light or dark, the patch code sheets may not be scanned properly.

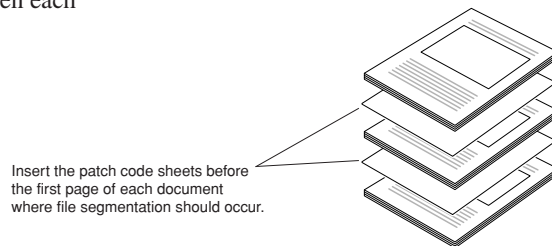
Using Patch Code Sheets

- 1 Make a copy of the patch pattern printed on p.51. Make sure the paper is the same size as that of the document to be scanned. (See "Patch Code Sheets," on p.35.)

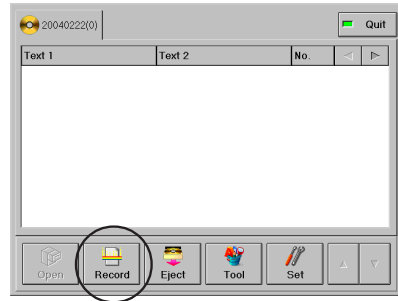


Patch Code Sheet

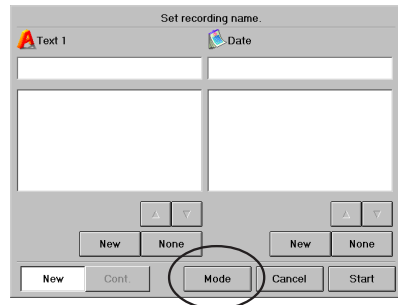
- 2 Insert the patch code sheets before or between each document.



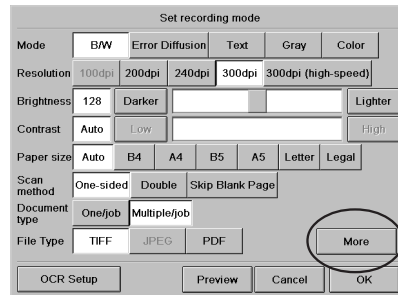
- 3 Press [Record] on the Main screen.
The Set recording name screen is displayed.



- 4 Press [Mode].
The Set recording mode screen is displayed.



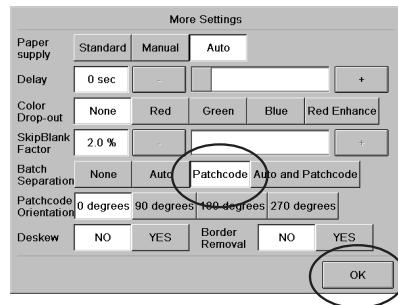
- 5 Press [More].
The More Settings screen is displayed.



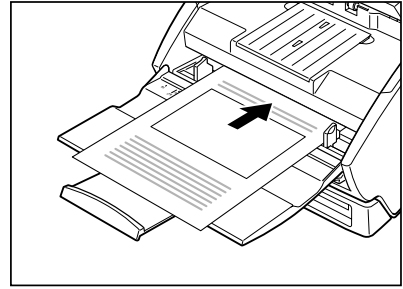
- 6 Specify the Batch Separation, settings → press [OK].
The Set recording name screen is displayed.



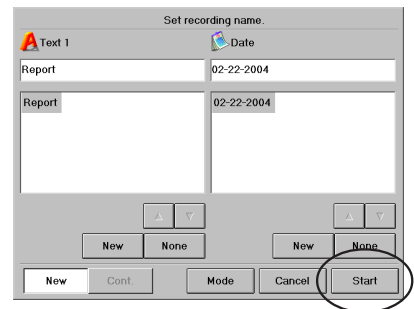
NOTE
Selecting [Manual] for [Paper supply] disables segmentation using patch sheets.



- 7** Place the document face up into the paper feed tray.



- 8** Specify the recording name → press [Start].
Recording starts, and files are segmented whenever a patch code is detected on a page. For information on how to specify the recording name, see “CD-R Document Recorder CD-4070NW Instructions (Software Version).”



Chapter 5 Clearing Paper Jams

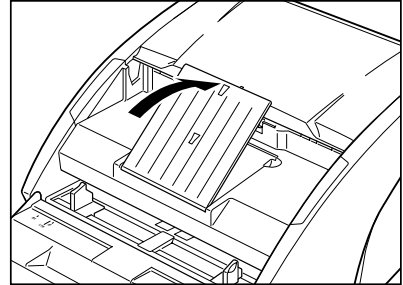
This chapter describes how to clear paper jams that may occur during use.



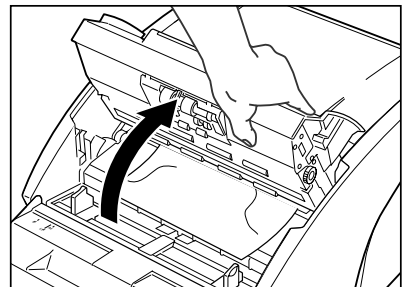
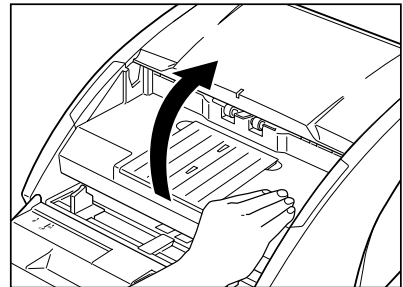
CAUTION

Handle paper carefully when you remove jammed paper. Otherwise, you may suffer an unexpected injury, such as cutting your hand on the edge of the paper.

- 1 Remove the documents on the document eject tray.
- 2 Close the document eject tray extension if it is open. If the document eject guide is installed, there is no need to remove it and close the document eject tray extension. Proceed to the next step.

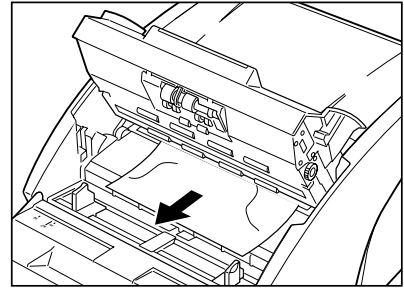


- 3 Raise the top of the document feeder until it locks in the open position.



- 4 Remove the jammed paper from inside the document recorder.

■ If a paper jam occurs at the beginning of scanning:

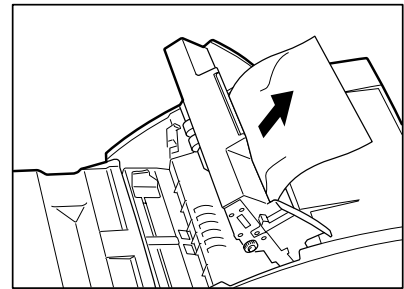


■ If a paper jam occurs at the end of scanning:

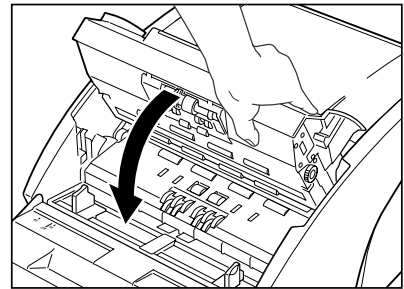


NOTE

Do not unnecessarily tug on the jammed paper. Remove it carefully. If the paper becomes ripped, be sure to remove any remaining paper scraps in the document recorder.



- 5 Grasp the top of the document feeder and push it down gently into the original position.

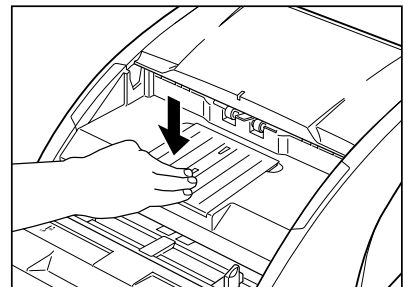


- 6 Push down on top of the document feeder until you hear it lock into the closed position.



NOTE

After the problem is resolved, confirm that the last page was recorded before continuing.



Chapter 6 Cleaning

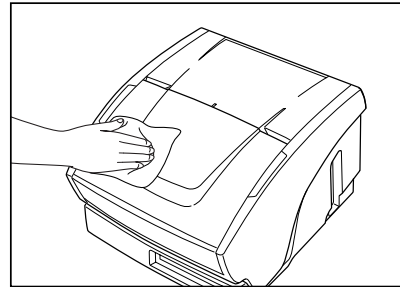
To ensure high-quality image scanning, regularly clean your CD-4070NW as described below.

⚠ CAUTION

- For safety, always quit the CD-4070NW and unplug the power cord before cleaning the document recorder.
- Never clean the document recorder with any kind of organic solvent, such as paint thinner or alcohol. Otherwise, the document recorder's exterior may be deformed, discolored, or melt. This may also cause a fire or electrical shock.

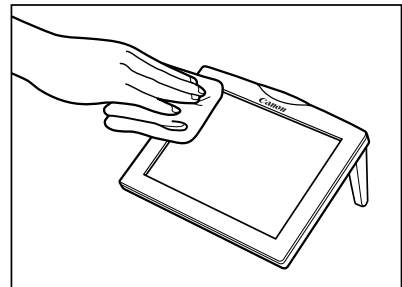
Cleaning the Exterior

Clean off any dirt on the document recorder's exterior using a firmly wrung, soft cloth moistened with water or a neutral detergent. Then wipe dry with a clean, dry, soft cloth.

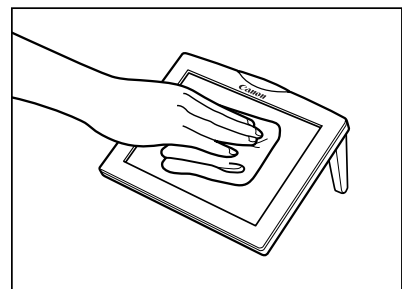


Cleaning the Touch Panel

- Clean the edges and rear of the touch panel using a firmly wrung, soft cloth moistened with water or a neutral detergent. Then wipe dry with a clean, dry, soft cloth.



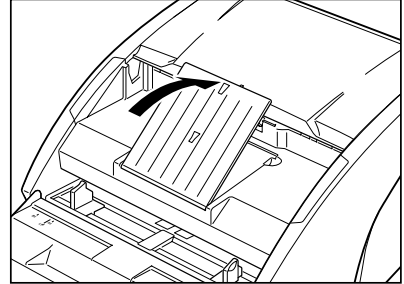
- Clean off any dirt on the touch panel using a firmly wrung, soft cloth moistened with water. Wipe lightly taking care not to apply pressure to the surface of the touch panel.



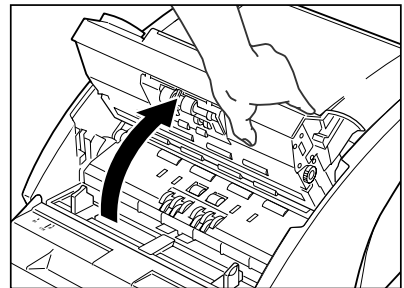
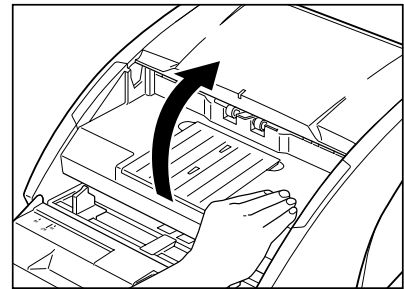
Cleaning the Scanning Glasses and Rollers

If the scanning glass and rollers are dirty, recorded images may include lines and important original documents may be marked. For this reason, periodically clean these parts.

- 1 Close the document eject tray extension if it is open.



- 2 Raise the top of the document feeder until it locks in the open position.

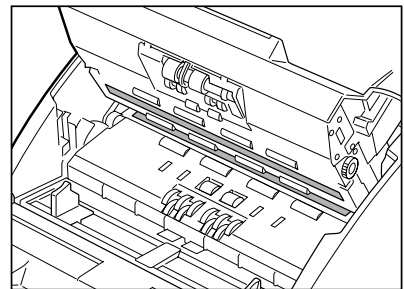



- 3 Use a clean, dry, soft cloth to wipe the scanning glasses (areas illustrated by ■).

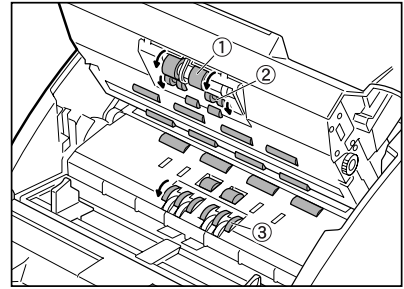
⚠ CAUTION

- Be sure to clean both scanning glasses, the one below and the one above.

Never spray cleaning agents or water directly on the scanning glasses. Otherwise, precision equipment, such as the light source, may become damaged.



- 4** Wipe the rollers (areas illustrated by ) with a firmly wrung, soft cloth moistened with water. Turn all the rollers in the directions shown in the illustration at 1, 2, and 3 as you wipe them clean. Then wipe dry with a clean, dry, soft cloth.



Chapter 7 Troubleshooting

This chapter explains the action to take if there is a problem when using the document recorder.

Refer to the pages below depending on the type of problem you are having.

Power Does Not Turn ON	p. 44
Cannot Operate the Document Recorder	p. 44
Paper Does Not Feed Properly	p. 44
Unexpected Scan Results	p. 45
Cannot Search for Documents	p. 45
Cannot Search a Text String	p. 45

If these suggestions do not remedy the problem, please contact your local authorized Canon dealer.

Power Does Not Turn ON

Confirm the following:

- Is the power indicator lit? (See “Turning the Power ON,” on p.21.)
- Is the power cord firmly connected to the document recorder? (See “Connecting the Power Cord,” on p.20.)
- Is the power cord firmly inserted into the power outlet? (See “Connecting the Power Cord,” on p.20.)



NOTE

If the power indicator is lit but the touch panel is blank, press the reset switch located at the rear of the touch panel to turn the power OFF, then wait at least 10 seconds before turning the power back ON. If nothing is still displayed, please contact your local authorized Canon dealer.

Cannot Operate the Document Recorder

Press the reset switch located at the rear of the touch panel to turn the power OFF in the following situations: (See “Touch Panel,” on p.19.)

- If the touch panel cannot be used due to a system error, for example
- If the touch panel display freezes and/or access to the CD-R drive (LED lights) takes a long time
- Pressing [Quit] does not turn the document recorder OFF.



NOTE

Always wait at least 10 seconds after turning the power OFF before you turn the power back ON.

Paper Does Not Feed Properly

Paper may not feed properly due to the following causes. Confirm each possible cause and take the action given as appropriate.

Cause: You tried to scan in a document size, thickness, or weight that the document recorder cannot handle.

Action: Confirm the document size, thickness, and weight. (See “Document Handling” on p.27.)

Cause: The scanner rollers inside the unit are dirty or need replacing.

Action: For details on how to clean the rollers, see “Cleaning the Scanning Glasses and Rollers,” on p.42. If the rollers need replacing, please contact your local authorized Canon dealer.

For details on how to remove jammed documents, see “Clearing Paper Jams,” on p.39.

Unexpected Scan Results

Scanning problems, such as scanned images that are unclear, contain lines, or are dirty, might be due to the following causes. Confirm each possible cause and take the appropriate action.

Cause: **The scanning glasses and rollers inside the unit are dirty.**

Action: For details on how to clean the scanning glasses and rollers, see “Cleaning the Scanning Glasses and Rollers,” on p.42.)

Cause: **The scan settings are inappropriate.**

Action: Check the brightness and other settings on the settings screen. For example, if a document will not scan at all, it is likely that the brightness setting is too high. If the scan results seem far too black, the brightness setting may be too low.

Cause: **The system is not functioning properly.**

Action: If scanning is still not performed correctly even when the scan settings are properly configured, the system may not be functioning properly. Please contact your local authorized Canon dealer.

Cannot Search for Documents

If you cannot search for documents directly from the CD-4070NW or over the Web, possible causes are given below. Confirm each possible cause and take the appropriate action.

Cause: **You tried searching a disc just after inserting it in the CD-4070NW.**

Action: The search index is still being built. Wait a while without operating the CD-4070NW until this operation finishes.

Cause: **The system was shut down uncleanly (e.g., due to a power outage while the CD-4070NW was being used) causing the backup data index to be cleared.**

Action: The backup data index is being rebuilt. Wait a while without operating the CD-4070NW. Depending on the saved backup data, building the backup data index may take at least 30 minutes.



NOTE

The CD-4070NW search function uses the operating system's indexing service. Therefore, when trying to search a disc just after inserting it when the index was cleared (e.g., due to a power outage), it is necessary to wait until the index finishes being built.

Indexes are rebuilt automatically while the CD-4070NW is in standby mode. No message is displayed indicating indexes are being rebuilt, so do not operate the CD-4070NW while waiting.

Cannot Search a Text String

When text searching, some strings cannot be correctly searched for. Try shortening the string.

Chapter 8 Appendix

Specifications

Scanner

Type Desktop image scanner and CD-R document recorder

Operating System Windows XP Embedded

Scanning Document Specifications:

Width: 2.2" to 10.1" (55 mm to 257 mm)
 2.8" to 10.1" (70 mm to 257 mm) with automatic size detection
Length: 2.8" to 14.3" (70 mm to 364 mm)
Thickness: 0.0024" to 0.059" (0.06 mm to 0.15 mm) with automatic feeding
 0.0019" to 0.0079" (0.05 mm to 0.2 mm) with manual feeding
Weight: 14 to 32 lb bond (52 to 128 g/m²) with autoamtic feeding
 11 to 40 lb bond (42 to 157 g/m²) with manual feeding

Document Feeding Method: Standard/Automatic/Manual

Scanning Method Contact sensor

Light Source LED

Scanning Side Simplex/Duplex

Scanning Modes Black and white, text enhanced, error diffusion, grayscale, color (front side only)

Scanning Resolution

Black and White, Grayscale: 300 x 300 dpi/300 x 150 dpi/240 x 240 dpi/200 x 200 dpi
Color: 200 x 200 dpi/100 x 100 dpi

Scanning Speed (Document Size: LTR/A4)

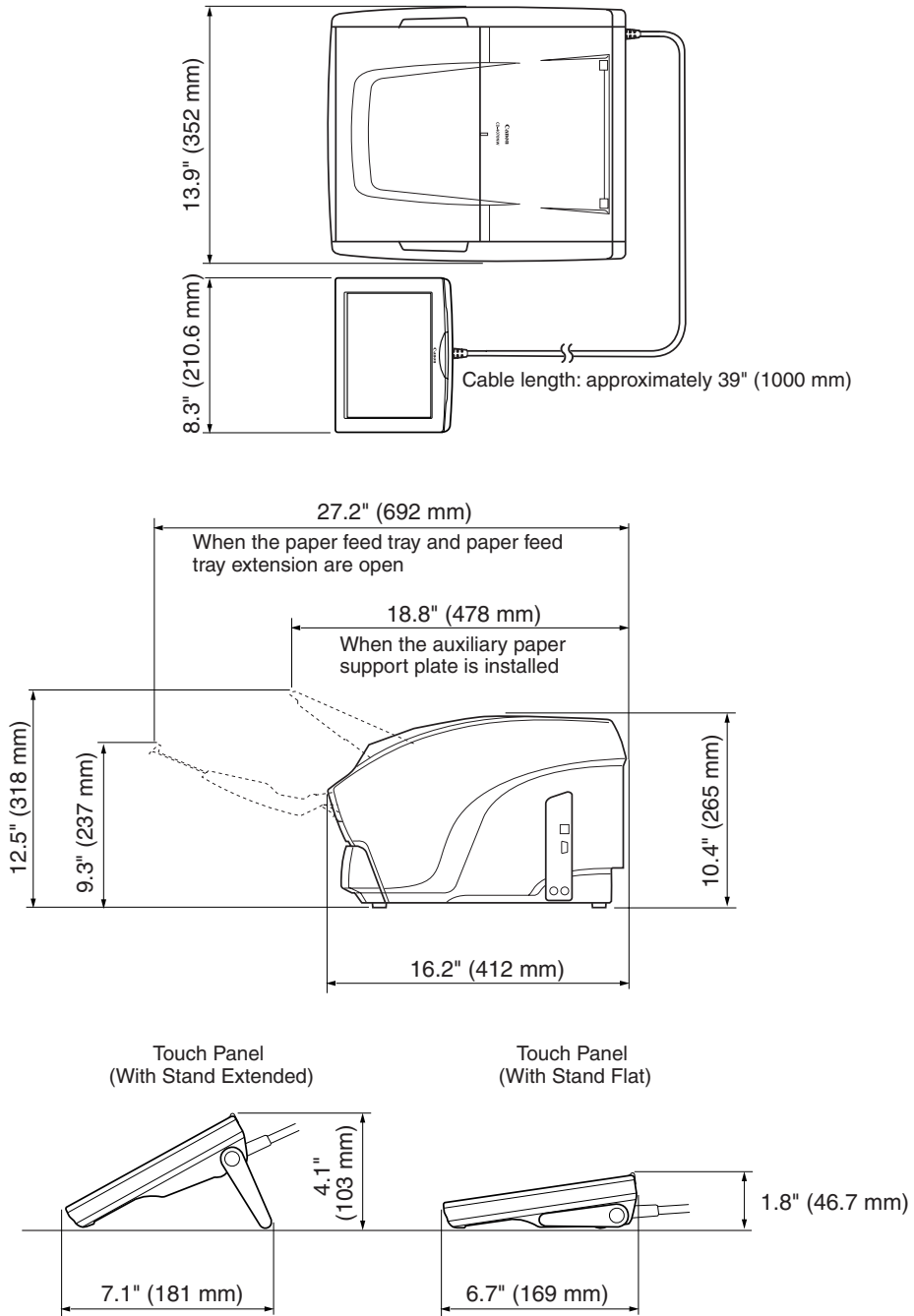
			LTR	A4	
Black and White:	Simplex:	300 x 150 dpi	43 pages/minute	42 pages/minute	
		200 x 200 dpi	32 pages/minute	32 pages/minute	
		240 x 240 dpi	27 pages/minute	26 pages/minute	
		300 x 300 dpi	21 pages/minute	21 pages/minute	
	Duplex:	300 x 150 dpi	87 sides/minute	85 sides/minute	
		200 x 200 dpi	65 sides/minute	64 sides/minute	
		240 x 240 dpi	54 sides/minute	54 sides/minute	
		300 x 300 dpi	43 sides/minute	43 sides/minute	
	Grayscale:	Simplex:	200 x 200 dpi	31 pages/minute	30 pages/minute
			240 x 240 dpi	26 pages/minute	25 pages/minute
			300 x 300 dpi	21 pages/minute	20 pages/minute
		Duplex:	200 x 200 dpi	50 sides/minute	48 sides/minute
240 x 240 dpi			36 sides/minute	35 sides/minute	
300 x 300 dpi			22 sides/minute	23 sides/minute	
Color:		Simplex:	100 x 100 dpi	21 pages/minute	20 pages/minute
			200 x 200 dpi	10 pages/minute	10 pages/minute
	Duplex (the back side is scanned with grayscale):		100 x 100 dpi	35 pages/minute	34 pages/minute
		200 x 200 dpi	15 pages/minute	15 pages/minute	

Amount of paper that can be stacked in automatic feeder	10 mm stack, maximum
Display	8.4" color LCD
Method of Operation	Touch panel
Compatible Disks	650 MB/700 MB CD-R (Recordable Compact Disc System Part II)
CD-R Write Speed	52x maximum (configurable)
Other Functions	Automatic document thickness adjustment, patch code recognition for automatic file segmentation, web search function, backup management
Document Recorder Dimensions	
With Trays Closed:	10.4" x 13.9" x 16.2" (H x W x D) 265 mm x 352 mm x 412 mm (H x W x D)
With Trays Open:	12.5" x 13.9" x 27.2" (H x W x D) 318 mm x 352 mm x 692 mm (H x W x D)
Panel Dimensions	
With Stand Closed:	1.8" x 8.3" x 6.7" (H x W x D) 46.7 mm x 210.6 mm x 169 mm (H x W x D)
With Stand Open:	4.1" x 8.3" x 7.1" (H x W x D) 103 mm x 210.6 mm x 181 mm (H x W x D)
Weight	Approximately 33.1 lb (15 kg)
Power Supply	120 V AC, 60 Hz 0.7 A 220-240 V AC, 50/60 Hz 0.4 A
Noise	Not more than 65 dB
Operating Environment	Temperature: 10°C to 32.5°C (50°F to 90.5°F) Humidity: 20% to 80% RH
Network	
Network	Microsoft Windows Network compliant
Interface	10Base-T/100Base-TX compliant
Protocol	TCP/IP
IP address	Static IP address or automatically acquired (DHCP)
Options	
Bar Code Module	Add on module for detecting bar codes.
Consumables	
Exchange Roller Kit	This is a transport roller replacement kit. Please contact your local authorized Canon dealer as they must actually perform the replacement.

Specifications are subject to change without notice.

External Dimensions

Units: inches (units in parentheses are millimeters)



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Patch code patterns

For details on how to use these patterns, see “Patch Code Sheets,” on p.35.

PATCH T (FILE A)



PATCH II (FILE B)



Canon

CANON ELECTRONICS INC.

1248, SHIMOKAGEMORI, CHICHIBU-SHI, SAITAMA 369-1892, JAPAN

CANON U.S.A. INC.

ONE CANON PLAZA, LAKE SUCCESS, N.Y. 11042, U.S.A.

CANON CANADA INC.

6390 DIXIE ROAD, MISSISSAUGA, ONTARIO L5T 1P7, CANADA

CANON EUROPA N.V.

BOVENKERKERWEG 59-61, P.O.BOX 2262, 1180 EG AMSTELVEEN, THE NETHERLANDS

CANON LATIN AMERICA, INC.

703 WATERFORD WAY, SUITE 400 MIAMI, FLORIDA 33126, U.S.A.

CANON AUSTRALIA PTY. LTD.

1 THOMAS HOLT DRIVE, NORTH RYDE, SYDNEY. N.S.W, 2113. AUSTRALIA

CANON SINGAPORE PTE. LTD.

1 HARBOUR FRONT AVENUE #04-01, KEPPEL BAY TOWER, SINGAPORE 098632

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