Canon

Canon Image Scanner

IX-12F

Instruction Manual

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FOREWORD

This manual has been prepared for use of the Canon Image Scanner IX-12F.

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This manual contains the following chapters.

I. **Features of the Image Scanner**
This chapter gives a general description of its main features and functions.

II. **External View and Installation Environment**
This chapter details the different parts of the image scanner. In addition, there is a more in-depth description on the requirements for installation.

III. **Setting Up the Image Scanner**
This chapter describes the components of the Image Scanner and gives complete instructions on how to set them up.

IV. **Daily Care and Cleaning**
This chapter describes how to take care of the Image Scanner in order to obtain optimum operation.

V. **Image Scanner Specifications**
This chapter describes the Image Scanner specifications in detail.

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I. FEATURES OF THE IMAGE SCANNER

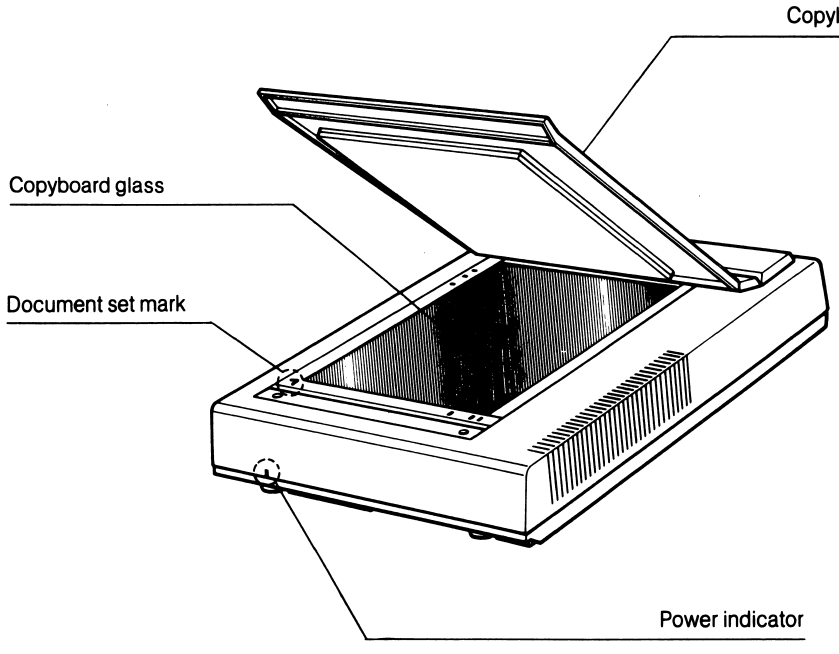
Designed for desk-top use, the compact scanner is equipped with a variety of highly intelligent functions.

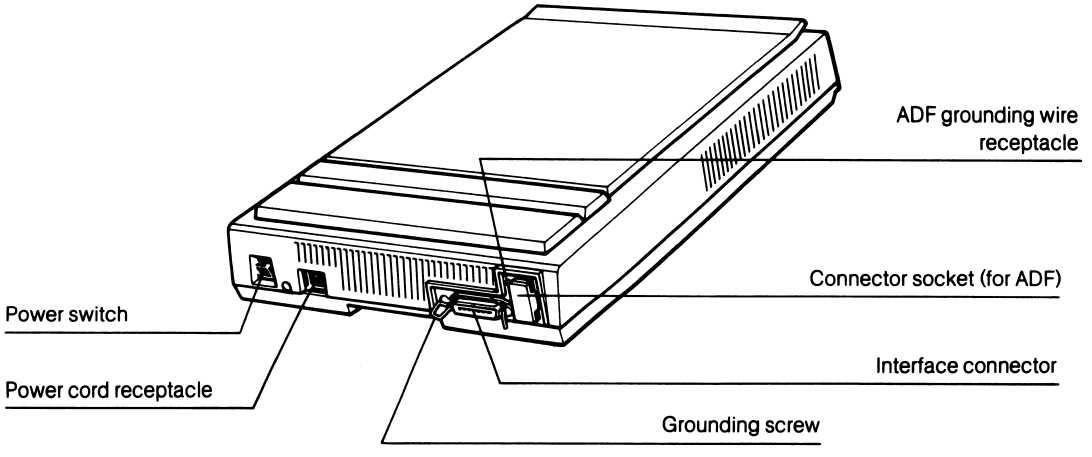
- Scanning capability up to a maximum A4/Letter size
- High resolution (300 × 300 pixels per inch)
- Equipped with 32-level, halftone scanning (dithered)
- Selectable scanning output modes (binary, dithered)
- Optional automatic document feeder (ADF)

II. EXTERNAL VIEW AND INSTALLATION ENVIRONMENT

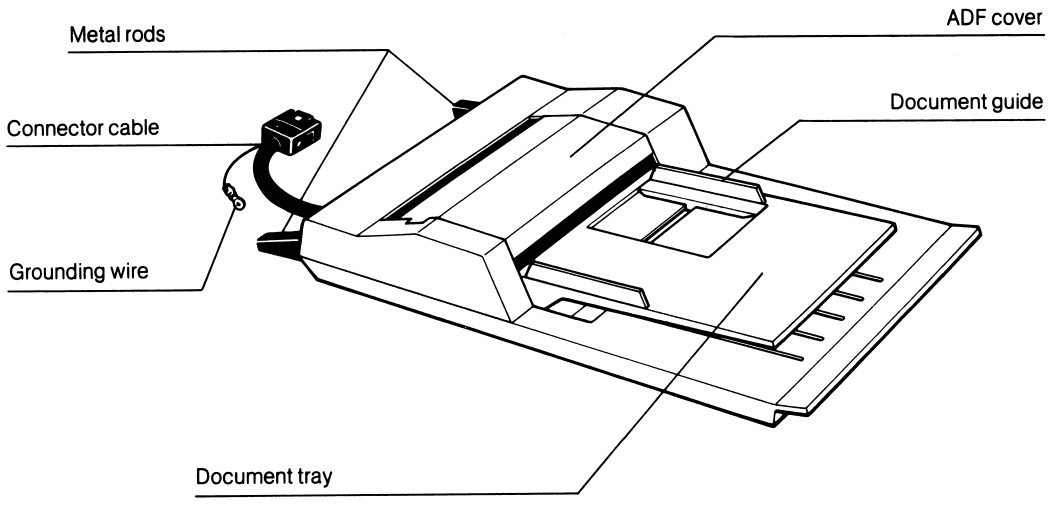
2.1 External View

Scanner Body





Automatic Document Feeder (ADF) (Option)



* A wire ground attaching screw and a washer come with the ADF.
* Mylar sheet of the ADF is replaceable. For more information, see page 3-6.

2.2 Installation Environment

Before using the image scanner, be sure that the place of installation meets all of the following requirements.

Power Supply

- Use the scanner only within the following power range:

  Voltage: 90—132 V (115 VAC)
  Supply frequency: 50—60 Hz
- Make sure that the total length of the power cord (including extension cord) is not more than 5 meters (16.5 feet). Reduced voltage and malfunction may result if a longer cord is used.
- Do not plug other electrical equipment into the same outlet.
- Do not use the same electrical outlet on a circuit supplying power to an air conditioner, copier, shredder, etc., since noise they produce may cause malfunction.
- If using a common outlet is unavoidable, install a voltage transformer or a high-frequency noise filter. Install a voltage regulator or similar device if the power source is not stable.

Operating Environment

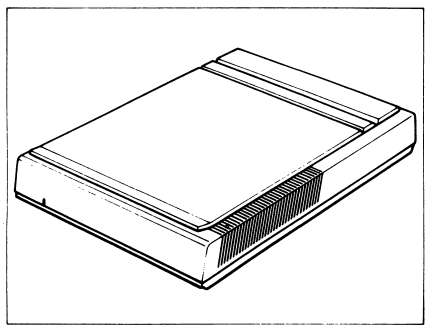
- Use the image scanner only within the following temperature and humidity ranges.

  Ambient temperature: 5°—35°C (41°—95°F)
  Ambient humidity: 5—90%
- Avoid direct sunlight and place the scanner in a cool location.
- Do not install the image scanner near devices containing magnets or generating magnetic fields.
- Place on a flat, even surface.
- Do not install the image scanner in a dusty place or where there is ammonia gas. This might damage the image processor or the main body itself.
- When installing or using the image scanner where the ambient humidity is less than 30%, use a humidifier or an antistatic mat to prevent the image scanner from building up an electrostatic charge.
- Avoid moving the image scanner from a cool to warm place to prevent condensation. If condensation appears around the CCD, the scanner will produce a black image regardless of the copy image. If moving the scanner from a warm to cool area is unavoidable, be sure to allow it to adjust to its new environment before using it.

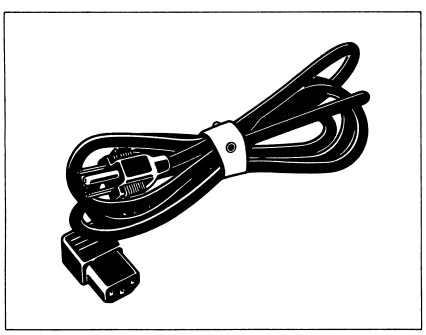
III. SETTING UP THE IMAGE SCANNER

3.1 Components

Before setting up the image scanner, make sure the following parts are in the packing box:



1. Image Scanner 1



2. Power Cord 1

Note: An interface cable is not included.

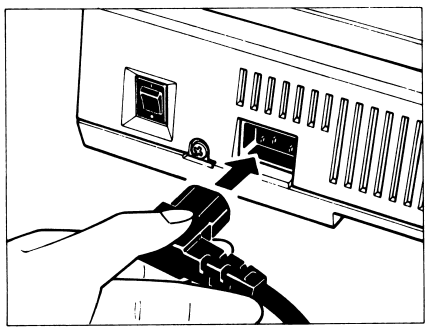
Removing Transportation Stabilizing Materials

Before turning the scanner on, be sure to remove any transportation stabilizing materials (including tape) by following the instructions on the attached label.

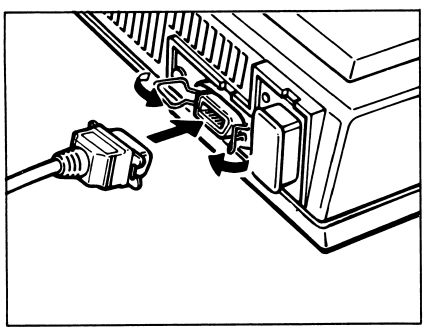
If you transport the scanner, first re-fix the mirror mount by installing the retainer.

3.2 Connecting the Image Scanner

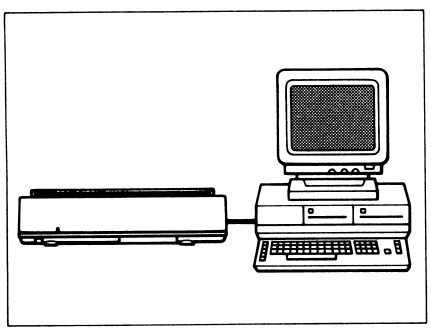
When connecting the supplied power cord and the interface cable (not supplied), follow the procedure below. During connection, always make sure that both the image scanner and the host computer are turned off.



1. Securely connect the power cord to the power cord receptacle on the back of the image scanner. Then plug the power cord into an appropriate AC outlet.



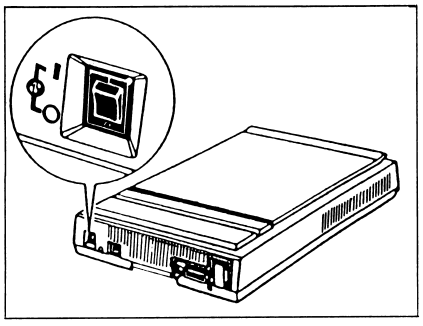
2. Firmly connect one end of the interface cable to the interface connector on the back of the image scanner. Then secure the cable with the lock clips.



3. Connect the other end of the interface cable to the connector on your host computer.

Note: For necessary grounding, use the grounding screw on the back of the image scanner.

3.3 Turning the Power On and Off



I = ON
O = OFF

When turning the power on, follow the procedure below.

- If the image scanner is connected only to the computer:
  (1) First turn on the image scanner.
  (2) Then turn on the computer.
- If other equipment (printer, etc.) is connected:
  (1) First turn on the image scanner.
  (2) Next turn on other equipment. (printer, etc.)
  (3) Then turn on the computer.

When turning the power off, follow the procedure below.

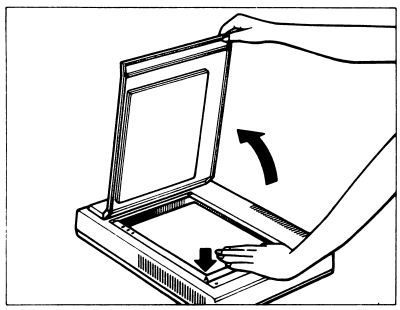
- If the image scanner is connected only to the computer:
  (1) First turn off the image scanner.
  (2) Then turn off the computer.
- If other equipment (printer, etc.) is connected:
  (1) First turn off the image scanner.
  (2) Next turn off the other equipment. (printer, etc.)
  (3) Then turn off the computer.

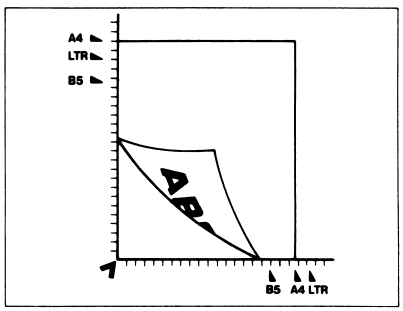
Note: Always wait at least two seconds after turning off the power before turning it back on.

3.4 Document (or Copy) Setting

Without the optional ADF

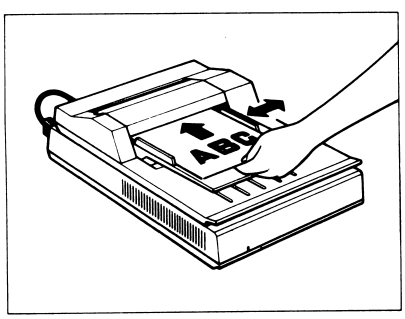
Raise the copyboard cover and place the original facedown on the copyboard glass along the scale on your left. Make sure the top of the original faces down as illustrated.





Using the optional ADF

Place the original faceup on the document tray and move the copy guide to adjust it to the correct size. Make sure the top of the original faces up as illustrated.



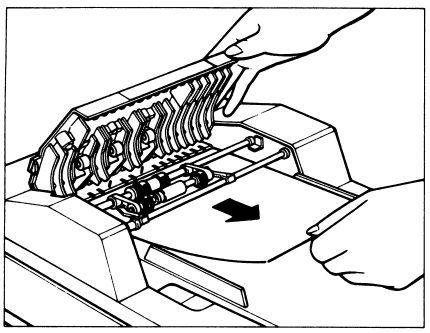
Notes:

1. Before using the ADF, make sure there is no paper on the copyboard glass by raising the ADF.
2. If the original is curled or wrinkled, first straighten it. Then set it on the document tray. Or place the original on the copyboard glass as in the procedure described above.
3. An OHP transparency should be backed with a sheet of white paper before scanning.
4. Do not use Mini-size paper in the ADF. If it is necessary to scan Mini-size paper, set the paper on the copyboard glass.

3.5 Paper Jams When Using the Optional ADF

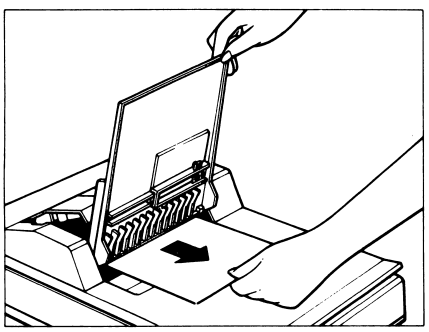
If a paper jam occurs while using the optional ADF, remove the jam as follows:

- If the jam occurs at the start of scanning:



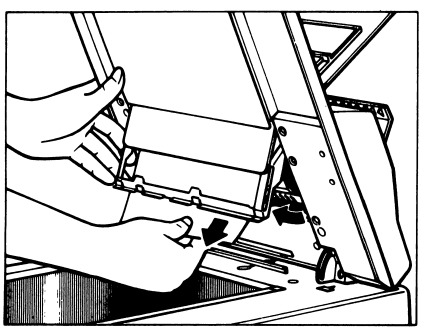
Lift the ADF cover and remove the jammed paper.

- If the jam occurs at the end of scanning:



Raise the ADF cover and lift up the document tray, then remove the jammed paper.

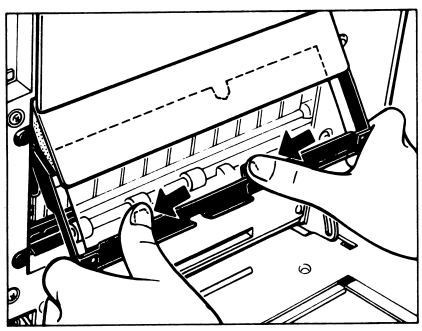
- If the jam occurs inside the ADF:



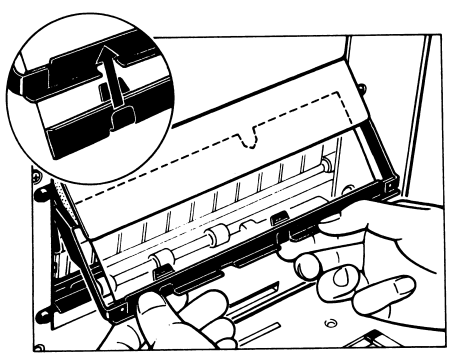
Raise the ADF cover, lift up the ADF, and open the feeder guide. Then remove the jammed paper.

3.6 Replacing the Mylar Sheet for the Optional ADF

The optional ADF comes with a replaceable Mylar sheet. It should be replaced when it gets dirty (or after 10,000 sheets). Follow the procedure below to replace the sheet.



1. Raise the ADF from the Image Scanner body. Then lift up the metal frame holding the Mylar sheet. Then grasp the two metal clips and push down as illustrated to remove the sheet.



2. Lift up the metal frame again and insert the new Mylar sheet. (Make sure the new sheet is set behind the white plastic sheet.) Attach the new Mylar sheet's metal clips directly to the metal frame as illustrated. Be sure they are securely affixed.

IV. DAILY CARE AND CLEANING

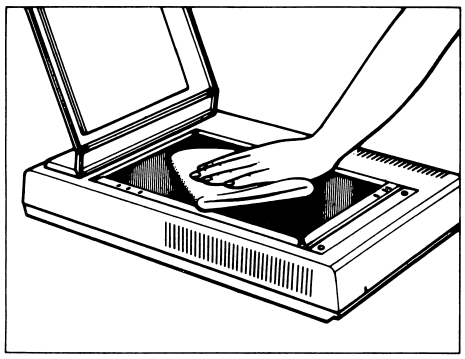
4.1 Daily Care

For daily care, please take note of the following:

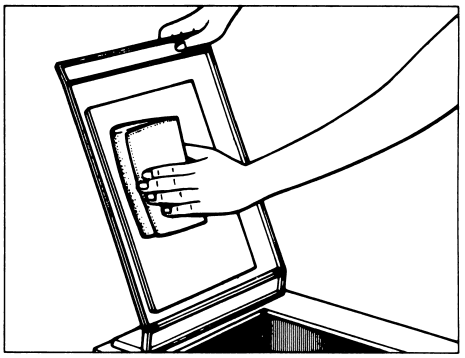
- Do not lubricate any of the scanner's parts.
- Do not disassemble.
- After use, turn the power switch OFF and allow the image scanner to cool down sufficiently before replacing the dust cover.
- Do not place objects on top of the image scanner or press down on the copyboard cover.
- Maximum weight allowance for the copyboard is 2 kg (4.6 lbs).
- Remove the power plug from the outlet if the image scanner is not to be used for a long period of time.

4.2 Cleaning

Cleaning should be performed as follows:



Copyboard Glass



Copyboard Cover

1. Disconnect the power plug.
2. Remove dirt using a mild detergent, then wipe with a dry cloth.
3. This procedure should also be followed to clean the exterior.

* Use only water or neutral detergent.

- The above cautions and procedure also apply to cleaning the optional ADF.

V. IMAGE SCANNER SPECIFICATIONS

5.1 Scanner Specifications

Type:	Flat-bed
Scanning Element:	CCD Image Sensor
Light Source:	Halogen Lamp (50 V, 42.5 W)
Document Size:	Maximum A4/Letter (216 × 297 mm)/ (8.5″ × 11″)
Scanning Speed:	Less than 16 seconds (Size A4)
Maximum Resolution:	300 × 300 ppi (pixels per inch)
Selectable Scanning Resolutions:	300/200/150/75 ppi
Halftone:	32 levels (dithered)
Density Adjustment:	3 levels
Mode Selection:	Binary/Dithered
Power Supply:	AC 100—115 V
Power Consumption:	Maximum 120 W
Size:	368 (W) × 570* (D) × 83** (H) mm (14.5″ × 22.4″ × 3.3″)
Weight:	11.4 kg

* Depth includes top of the spring lock.
** Height is measured to copyboard glass.

5.2 Optional ADF (Automatic Document Feeder) Specifications

Maximum Document Size:	Legal (8.5″ × 14″)
Scanning Speed:	16 seconds per page (A4 size)
Maximum Number of Sheets:	20 (80 g/m²)
Size:	368 (W) × 504 (D) × 73 (H) mm (14.5″ × 19.8″ × 2.9″)
Weight:	4.2 kg

FCC REGULATIONS

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules,* which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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 the receiving antenna.

Relocate the computer with respect to the receiver.

Move the computer away from the receiver.

Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems".

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

* Use of shielded cable is required to comply with class "B" limits of FCC rules.

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