

Canon

*i*450

Color Bubble Jet Printer

Quick Start Guide

Canon i450 Color Bubble Jet Printer Quick Start Guide.

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Contents

Basic Printing

Turning on the Printer	2
Loading Paper	3
Using Speciality Media	5
Printing with Windows	7
Printing with Macintosh	9

Advanced Printing

Printing Photographs Directly from a Digital Camera	11
Accessing Printer Driver	14
Adjusting Print Quality for Photographs	15
Using Printer Driver Options	22
Using the Bundle Software	23
Printing Borderless Photographs with Windows	24
Printing Borderless Photographs with Macintosh	26

Printing Maintenance

When Printing Becomes Faint or Colors are Incorrect	28
Printing the Nozzle Check Pattern	29
Print Head Cleaning	31
Print Head Deep Cleaning	33
Aligning the Print Head	35
Replacing an Ink Tank	38

Troubleshooting

Cannot Install the Printer Driver	43
Print Quality is Poor or Contains Errors	44
Troubleshooting Printer Hardware	45
Paper Does Not Feed Properly	46
Handling Error Messages	47
An Error Message Appears on the Screen	48
Cannot Print Properly from the Digital Camera	50

Appendix

Installing the Printer Driver when using Mac OS 9.x	52
User's Guide Table of Contents	53
Specifications	54
Safety Precautions	56
Regulatory Information	58
CANON LIMITED WARRANTY --- (USA Only)	59

Index	61
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Basic Printing



Note This **Quick Start Guide** describes some of the features of your i450 printer and how to use them. For more information, view the i450 **User's Guide** on the **Setup Software & User's Guide CD-ROM**, or use the online help within your printer driver interface:

Windows

While in the printer's Properties window, press the **F1** key, or click ? in the upper right corner. Then click the feature you want to know more about, or click the **Help** button when displayed.

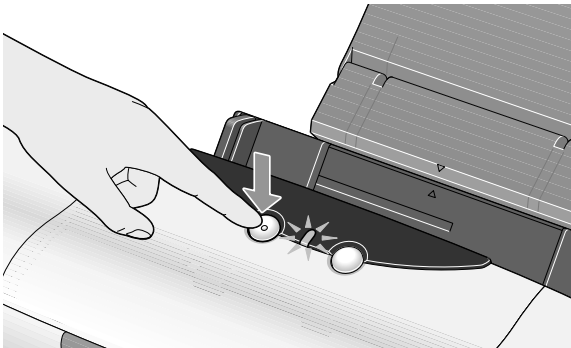
Macintosh

Turn Balloon Help on by selecting **Help**, then **Show Balloon Help**.

Turning on the Printer

1 Press the POWER button.

The **POWER** lamp flashes while the printer warms up and changes to steady (non-flashing) green when the printer is ready.



- Important**
- Before unplugging the power cord, turn off the printer and ensure that the green lamp has gone out.
 - If the **POWER** lamp changes to orange and begins flashing, refer to the section "**Handling Error Messages**" on page 47.

Loading Paper

■ Print Media to Avoid

Do not use the following types of paper. Using such paper will not only produce unsatisfactory results, but can also cause the printer to jam or malfunction.

- Folded, curled or wrinkled paper
- Damp paper
- Excessively thin paper (less than 64 gsm or 17 lb)
- Excessively thick paper* (more than 105 gsm or 28 lb)

*non-Canon branded paper

- Picture postcards
- Postcards affixed with photos or stickers
- Envelopes with double flaps
- Sealed envelopes
- Envelopes with an embossed or treated surface
- Any type of paper with holes (such as loose-leaf)

■ Loading the Print Media

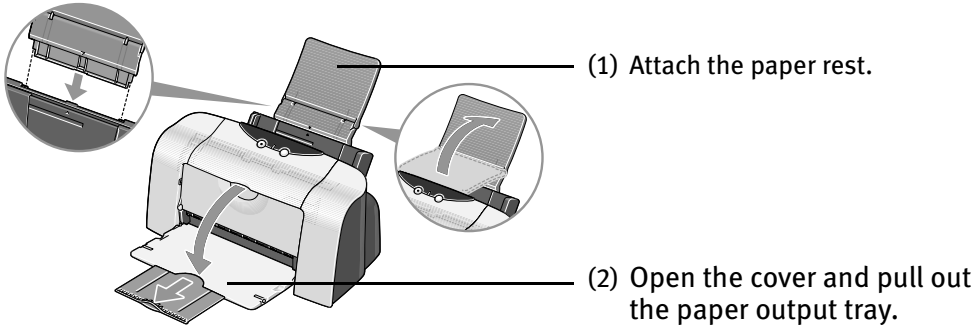
This section describes how to load plain paper into your printer.

- For detailed information on the speciality media Canon provides for use with its various printers, refer to the section "**Using Speciality Media**" on page 5.
- Consult the *User's Guide* for detailed instructions on how to load envelopes and speciality media into the printer.

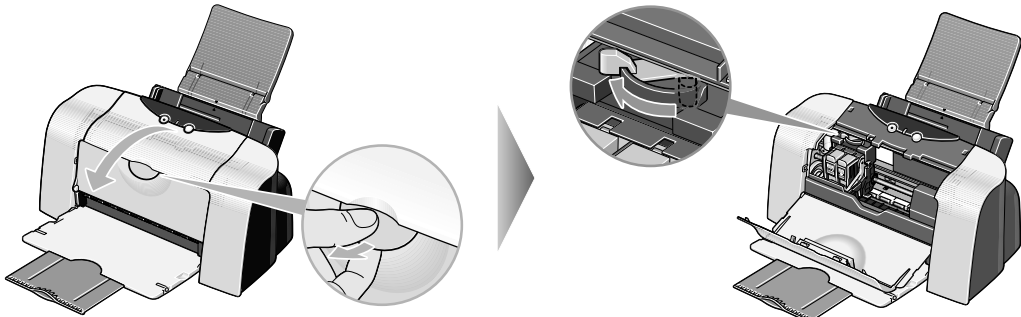
1 Flatten the four corners of the paper before loading it.

Important When paper is curled, gently bend them in the opposite direction until the paper becomes completely flat.

2 Prepare to load paper.

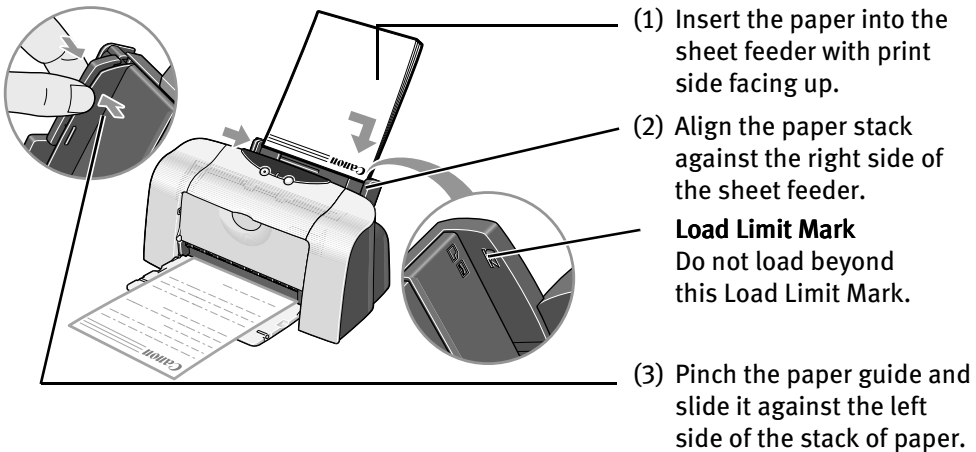



- (3) Open the front cover and adjust the paper thickness lever to the correct position for the media in use. Move to the left position for plain paper. Move to the right position for envelopes and T-shirt Transfers.



- (4) Close the front cover.

3 Load the paper.



-  **Note** • Do not touch the printed surface until the ink dries. For specific drying times, refer to the instructions packaged with your media.

Using Speciality Media

Canon recommends that you use genuine Canon media to ensure optimal print quality.

■ Photo Quality Media

- Photo Paper Pro
- Photo Paper Plus Glossy
- Matte Photo Paper
- Glossy Photo Paper
- Glossy Photo Cards
- High Gloss Photo Film
- High Resolution Paper



■ Media Suited to Business Documents

- High Resolution Paper
- Transparencies



■ Canon Speciality Media

Media Type	Paper Rest Load Limit	Paper Thickness Lever Position	Printer Driver Setting for Media Type
Photo Paper Pro	Letter: up to 10 sheets* 4" x 6" : up to 20 sheets	Left	Photo Paper Pro
Photo Paper Pro Perforated	4" x 6" : up to 20 sheets	Left	Photo Paper Pro**
Photo Paper Plus Glossy	Letter: up to 10 sheets* 5" x 7" : up to 10 sheets 4" x 6" : up to 20 sheets	Left	Photo Paper Plus Glossy
Matte Photo Paper	Up to 10 sheets	Left	Matte Photo Paper
Glossy Photo Paper	Up to 10 sheets	Left	Glossy Photo Paper
High Resolution Paper	Up to 80 sheets	Left	High Resolution Paper
T-Shirt Transfers	1 sheet	Right	T-Shirt Transfer
Transparencies	Up to 30 sheets	Left	Transparency




Note

- When using plain paper, up to 100 sheets can be set. Set the Paper Thickness Lever to the left and select **Plain Paper** from the printer driver Media Type.
- For detailed description of print media types, refer to the *User's Guide*.
- * : When paper cannot be fed normally, load the necessary number of sheets in the auto sheet feeder with them separating from each other to avoid them from sticking together.
- ** : Print settings are much easier to select if you use the applications included on the *Setup Software & User's Guide CD-ROM* when printing with Photo Paper Pro Perforated.
For instructions on how to print from the software applications, refer to the *Photo Application Guide*.



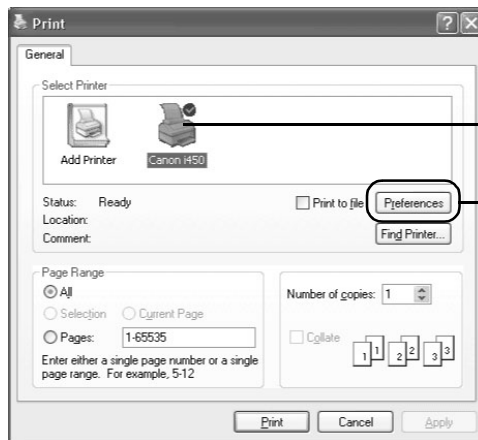
Printing with Windows

-  **Note**
- The menu screens and dialog boxes that appear may vary, depending on the software application you are using.
 - The steps described in this section are for printing in Windows XP.

1 Create a document or open a file to print.


2 Open Printer Properties dialog box.

(1) Select **Print** from the application software's **File** menu.

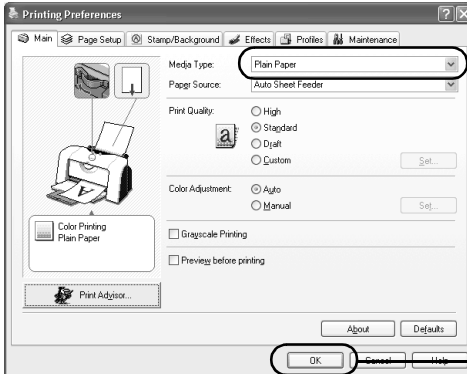


(2) Ensure that **Canon i450** is selected.

(3) Click **Preferences** or **Properties**.


-  **Note** In Windows 2000, click the **Main** tab in the **Print** dialog box.

3 Specify the required settings.

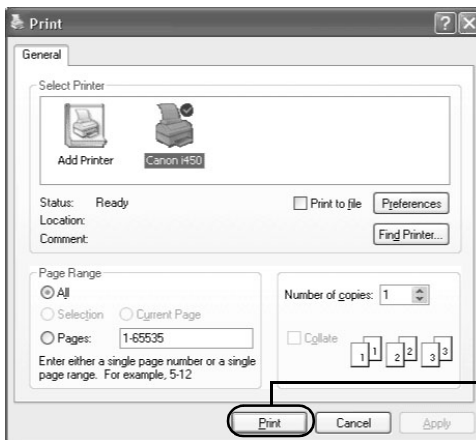


(1) Click **Media Type** to select the type of media loaded in the printer.


(2) Click **OK**.

-  **Note**
- From the **Page Setup** tab select the correct document size to be printed.
 - To adjust Print Quality settings, select **Custom** and click **Set** on the **Main** tab. You can control quality in the **Set Print Quality** dialog box.
 - For details about other printer driver functions, refer to the *User's Guide* or *Help*.
 - Select **Preview before printing** by clicking the check box. This displays a preview screen that allows you to confirm the selected printing effects and how your document will look when printed. Some applications do not contain the function to display the preview.

4 Print the document.




(1) Click **Print**.

-  **Note** You can cancel a print job in progress by simply pressing the **RESUME/CANCEL** button on the printer.

Macintosh

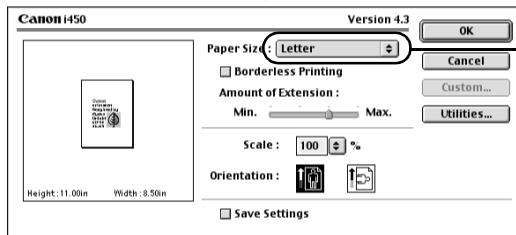
Printing with Macintosh

-  **Note**
- The menu screens and dialog boxes that appear may vary, depending on the software application you are using.
 - The steps described in this section are for printing in Mac OS 9.

1 Create a document or open a file to print.

2 Select Paper Size.

(1) Select the **Page Setup** from the application software's **File** menu.

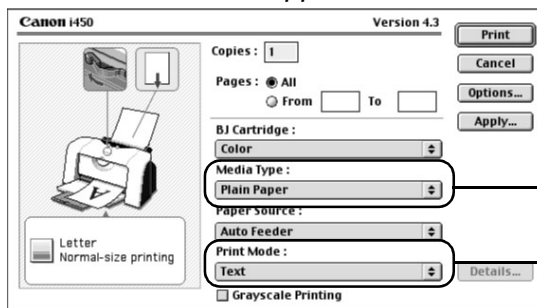


(2) Select the desired paper size from the **Paper Size** pull-down menu.

(3) Click **OK**.

3 Specify the required settings.

(1) Select **Print** from the application software's **File** menu.



(2) Select the **Media Type** from the pull-down menu.

(3) Select the type of document from the **Print Mode** pull-down menu.

(4) Click **Print**.


**Note**

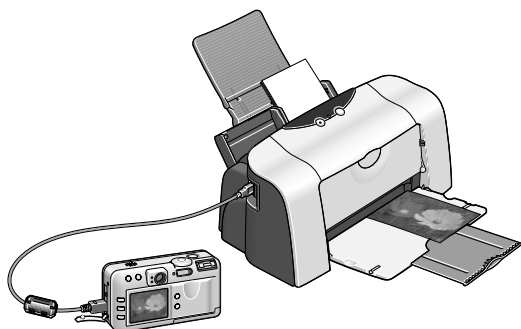
- When you select the type of document from the **Print Mode** pull-down menu, the document will be printed in color and print quality suited to the characteristics of **Media Type** you have selected.
 - Text:** Select when printing documents consisting mainly of text.
 - Graphic:** Select when printing documents consisting mainly of graphs and graphics (illustrations) with strong color definition.
 - Photo:** Select when printing documents consisting mainly of photographs and graphics featuring fine color gradation.
 - Manual:** If you select **Manual**, the **Details** button will become selectable. Click the **Details** button to display the **Detailed Setting** dialog box where you can fine-tune the Print Quality and Halftoning settings. Refer to the *User's Guide*.
- For details about other printer driver functions, refer to the *User's Guide* or Help.
- You can cancel a print job in progress by simply pressing the **RESUME/CANCEL** button on the printer.

Advanced Printing

Printing Photographs Directly from a Digital Camera

Connecting a Canon digital camera with Bubble Jet Direct function to the printer allows you to print captured images directly without using a computer. Use the USB cable that came with your digital camera.

-  **Note**
- To print directly from a digital camera or digital video camcorder, use only Canon “Bubble Jet Direct” compatible digital cameras or digital video camcorders.
 - When you print directly from a digital camera, you need to operate from the camera itself.
 - You are recommended to use a household power source rather than the battery pack to power the camera when it is connected to a printer. If you do use a battery pack, ensure that it is fully charged.



■ Media Types for Digital Camera

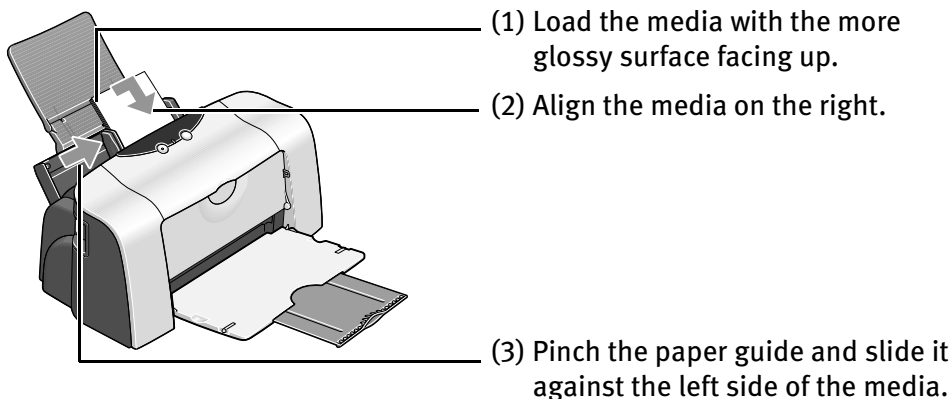
You can use the following Canon media:

Digital Camera Setting	Media Type
Card #1	Photo Paper Pro 4" x 6" / 101.6 x 152.4 mm
Card #2	Photo Paper Plus Glossy 4" x 6" / 101.6 x 152.4 mm
Card #3	Photo paper Plus Glossy 5" x 7" / 127 x 177.8 mm
LTR	Photo Paper Pro or Photo Paper Plus Glossy Letter
A4	Photo Paper Pro or Photo Paper Plus Glossy A4

■ Printing from a Digital Camera

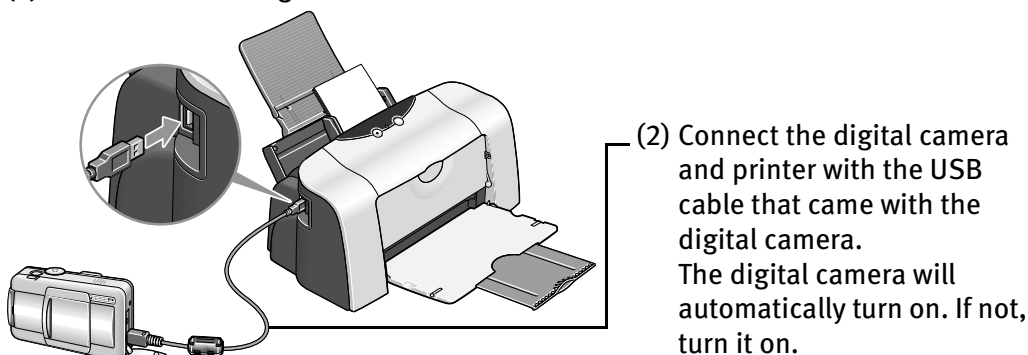
1 Ensure that the printer is turned on.

2 Load the paper.




3 Connect the printer and the digital camera.

(1) Ensure that the digital camera is turned off.



4 Start printing using the print function of the digital camera.

- (1) Display the image you want to print in the **Replay** mode.
If the camera will not change to the **Replay** mode, refer to your digital camera user's manual's instructions for changing the camera to the **Replay** mode.
 will display on the LCD display of the digital camera when the printer is correctly connected.
- (2) Press the **SET** button to display the **Print** menu.

- (3) Select **Style** and specify the **paper** size, **Borderless** or **Bordered** printing, and date printing On or Off.
- (4) After specifying the style, specify a number of copies, select **Print** and then press the **SET** button.

**Note**

- For the digital camera operation and troubleshooting, refer to your digital camera user's manual. For print error messages, refer to "**Cannot Print Properly from the Digital Camera**" on page 50.
- For the digital video camcorder operation, print error messages, and troubleshooting, refer to your digital video camcorder user's manual.
- By operating the digital camera, you can make the following prints:
 - You can make a standard print from the image displayed in the single display mode or in the index display mode.
 - You can print specified numbers of images, or make an index print using the DPOF function.
Images other than Exif may not be index printed.
 - The images taken with an Exif 2.2 compatible digital camera will be adjusted by using the Photo Optimizer PRO function.
 - If date printing is set on the digital camera, the date of photographing will be printed (excluding the index print).
 - Images will be scaled automatically according to the size of the media set on the digital camera.
- The digital camera does not support the following functions:
 - Print quality setting
 - Maintenance

*The print head cannot be aligned through the digital camera. Connect the printer to the computer, then align the print head. If the print head has not been aligned, reduce the printing speed (one-way printing) for better print quality.

- To disconnect the cable connected between the digital camera and printer, follow the procedure below:
 1. Disconnect the cable from the printer.
 2. Turn off the digital camera.
 3. Disconnect the cable from the digital camera.
When disconnecting the cable, be sure to hold the connector by its sides.

Accessing Printer Driver

The **Printer Properties** dialog box can be opened from either within an application, or directly from the Windows **Start** menu.



Note

- This manual refers to Windows XP operation.
The operations may vary depending on your operating system.
- Depending on your application program, the command and menu names may differ, and there may be more steps involved in opening the **Printer Properties** dialog box. For more details, see the user's manual for your application.

■ Opening the Printer Properties Dialog Box from Your Application Program

- 1** In your application, select the command to print a document.
The **Print** dialog box can usually be opened by selecting **Print** from the **File** menu.
- 2** Ensure that the Canon i450 is selected. Then click Preferences (or Properties).
The **Printer Properties** dialog box opens.

■ Opening the Printer Properties Dialog Box Directly from the Start Menu

This method is used for maintenance operations such as print head cleaning, or to specify printer settings common to all application programs.

When the **Printer Properties** dialog box is opened from the **Start** menu, additional tabs appear, including the **Details** tab. These do not appear when the **Printer Properties** dialog box is opened from within an application.

For more information about these additional tabs, refer to your Windows documentation.

- 1** Click **Start** and select **Control Panel, Printers and Other Hardware**, and then **Printers and Faxes**.
For non-XP Windows, click **Start**, select **Settings**, and then **Printers**.
- 2** Select the Canon i450 icon.
- 3** Open the **File** menu and select **Printing Preferences** (or **Properties**).
The **Printer Properties** dialog box opens.

Adjusting Print Quality for Photographs

■ Improving Printed Images

Two important factors control the quality and output of your printed images:

Paper and Ink

Using recommended Canon paper, speciality media, and inks for printing photographs can significantly improve the quality of your printouts. See the inside back cover for a list of Canon media and inks for this printer.

Printer Driver Settings

The printer driver has a variety of settings that can be used to creatively enhance the colors and output of your photographs. Many of these features are covered in this chapter.

For more detailed information, see the *i450 User's Guide* on the *Setup Software & User's Guide CD-ROM*.

You can also access the online help in either of the following ways depending on your operating system:

Windows

- Press the **F1** key
- Click ? in the upper right corner, then click the feature you want to know more about.
- Click the Help button when displayed.

Macintosh

- Turn on **Balloon Help** by clicking **Help**, then **Show Balloons**.

■ Adjusting Print Quality

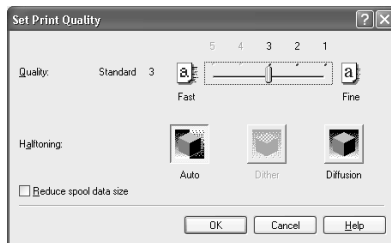
Features that affect the appearance and quality of your printed images can be controlled with the printer driver.

The i450 automatically adjusts printer settings to improve print quality based on the media type (plain paper, Photo Paper Pro, and so on). You can also customize the Print Quality settings if desired.

To manually adjust Print Quality settings:

Windows

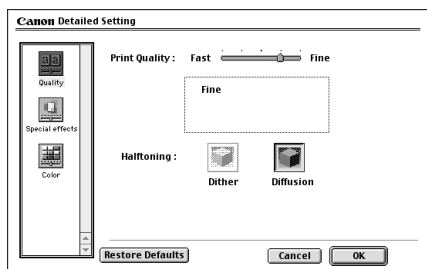
- 1 Open the Printer Properties dialog box.
See "Opening the Printer Properties Dialog Box from Your Application Program" on page 14.
- 2 Select Custom in Print Quality, then click Set... to open the Set Print Quality dialog box.
- 3 Move the slide bar to adjust the Print Quality.



- 4 When the process is complete, click OK.

Macintosh

- 1 Open the Print dialog box.
See "Printing with Macintosh" on page 9.
- 2 Click Print Mode and select Manual, then click Details... to open the Detailed Setting dialog box.
- 3 Move the slide bar to adjust the Print Quality.



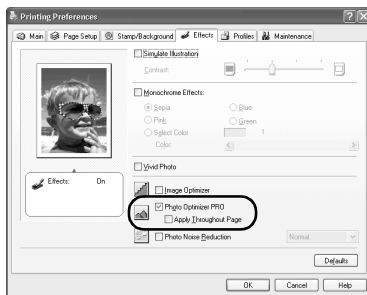
- 4 When the process is complete, click OK.

To automatically optimize the image:

Photo Optimizer PRO automatically adjusts the photographic image created with a digital camera. Use this feature to compensate for unsatisfactory color balance and over- or under-exposure before printing.


Windows

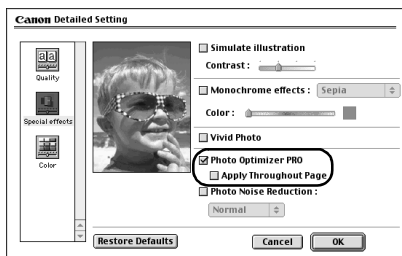
- 1 Open the Printer Properties dialog box.
See "Opening the Printer Properties Dialog Box from Your Application Program" on page 14.
- 2 Click the Effects tab.
- 3 Select the Photo Optimizer PRO check box.



- 4 Click OK.

Macintosh

- 1 Open the Print dialog box.
See "Printing with Macintosh" on page 9.
- 2 Click Print Mode and select Manual, then click Details... to open the Detailed Setting dialog box.
- 3 Click  (Special effects).
- 4 Select the Photo Optimizer PRO check box.



- 5 Click OK.

To use Vivid Photo option:

Vivid Photo intensifies background colors like fields, trees, oceans and skies, while maintaining natural skin tones in the images.

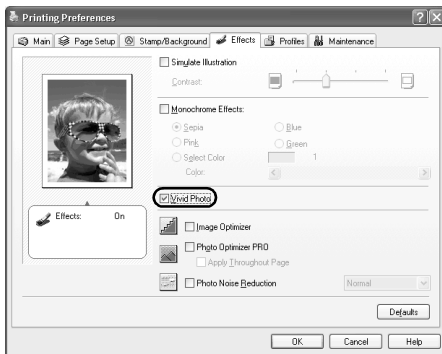


Note In Windows Me or Windows 98

If Background Printing has been disabled, the Vivid Photo function is not available.

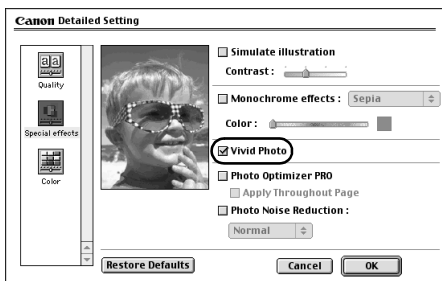
Windows

To use Vivid Photo, select the **Vivid Photo** check box on the **Effects** tab.




Macintosh

To use Vivid Photo, select the **Vivid Photo** check box under **Special Effects**.



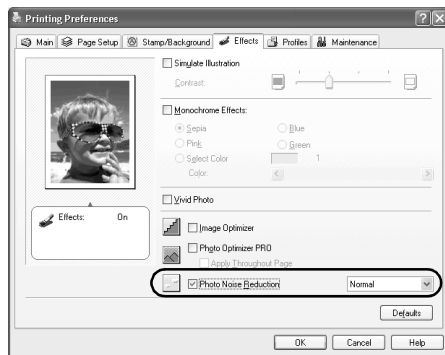
To reduce noise from images captured with a digital camera:

Photo Noise Reduction function reduces noise from blue portions, such as the sky and dark portions of the images captured with your digital camera.

 **Note** In Windows Me or Windows 98
If Background Printing has been disabled, the Photo Noise Reduction function is not available.

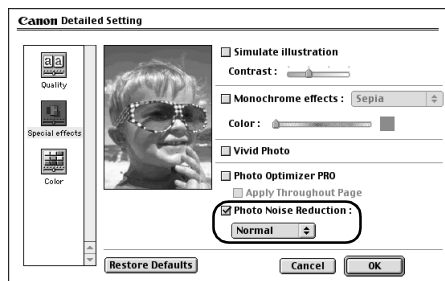
Windows

To use Photo Noise Reduction, select the **Photo Noise Reduction** check box on the **Effects** tab.



Macintosh

To use Photo Noise Reduction, select the **Photo Noise Reduction** check box under **Special Effects**.



■ Saving and Recalling Driver Settings

When you change printer driver settings for a specific print job, such as printing black and white photos, or printing documents with a special background, you can save and name these settings for future use on similar print jobs.

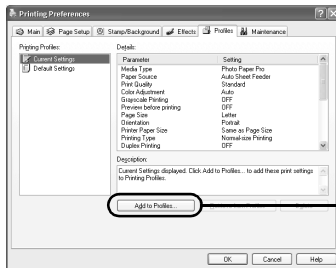
Windows

1 Open the Printer Properties dialog box.

See "Opening the Printer Properties Dialog Box from Your Application Program" on page 14.

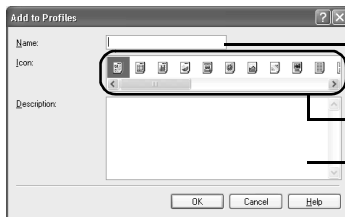
2 Click the Profiles tab.

3 Enter new settings in Profiles.



(1) Click **Add to Profiles**.

The **Add to Profiles** dialog box opens.



(2) Enter the name of profile for registering settings.


(3) Select an icon.

(4) Enter a description on the registering profile.

4 Click OK.

5 Click OK on the Profiles tab.

This registers your printer driver print settings.

 **Note** You can retrieve or delete the print settings profile at any time.

Retrieving profile: Select the desired profile from **Printing Profiles**, and click **Retrieve** from **Profiles**.

Deleting unwanted profile: Select the desired profile from **Printing Profiles**, and click **Delete**.

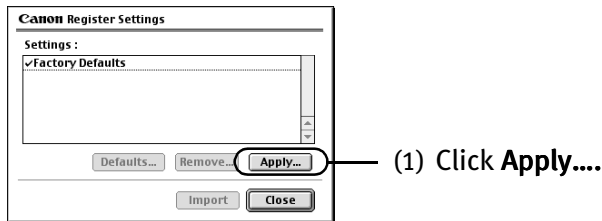
For details, click **Help** and refer to the topic of this function.

Macintosh

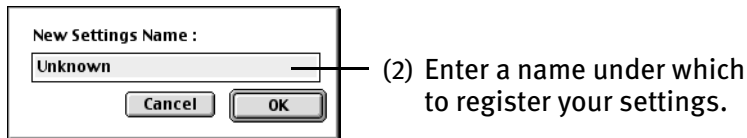
- 1 Open the Print dialog box.
See "Printing with Macintosh" on page 9.

- 2 Click Apply.
The **Register Settings** dialog box opens.

- 3 Enter the print settings to register.




The dialog box to enter the new settings name opens.



- 4 Click OK.
- 5 Click Close in the Register Settings dialog box.

This registers your printer driver print settings.


 **Note** You can retrieve or delete the saved driver settings at any time.

Retrieving print settings: Select the name of the settings to retrieve from the Settings list and click **Import**.

Deleting unwanted drivers settings: Select the name of the settings to delete from the Settings list and click **Remove**.

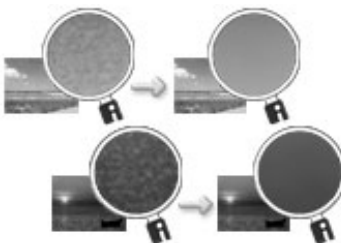
Using Printer Driver Options

Getting to know the basic features of your printer driver will provide you with sufficient expertise to print a wide range of images and documents. The illustrations below provide a basic introduction to the many features offered by your printer driver.

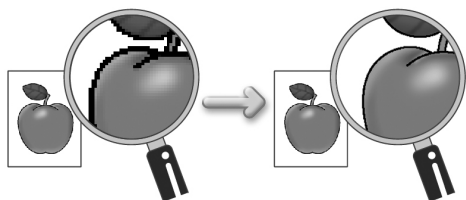
 **Note** For detailed description of the printer driver functions, refer to the *User's Guide*.



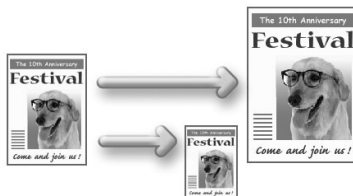
Printing with Borderless Printing



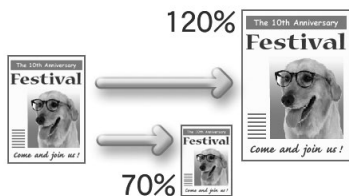
Reducing Noise from Images Recorded with Digital Camera



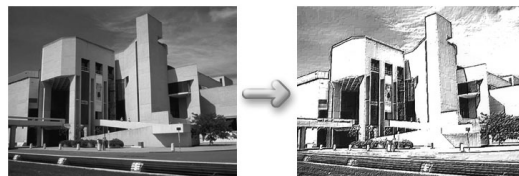
Smoothing the Rough Edges of Certain Images



Automatically Resizing the Image to Fit the Page




Resizing the Image by Selecting the Scaling Ratio



Adding Illustrated Effect to Documents

Using the Bundle Software

The *Setup Software & User's Guide CD-ROM* includes photo applications designed to edit the photographs taken by a digital camera and print them as photo-lab quality prints. Please use the application(s) suitable for your print purposes.

-  **Note**
- To install applications, refer to *Easy Setup Instructions*.
 - For details about photo applications, refer to the *Photo Application Guide* included on the *Setup Software & User's Guide CD-ROM*.

■ Easy-PhotoPrint (Windows/Macintosh)

You can make Borderless Printing easily and quickly, just by selecting a photograph taken with a digital camera and the paper type on which to print. You can also use simple editing features such as trimming and image rotation. It is Exif Print (Exif 2.2)* compatible. Internet Explorer 4.0 or later must be installed.

■ ImageBrowser (Macintosh)

You can import photographs taken with a digital camera into the computer, edit and caption them. You can produce Borderless prints or Index prints with ease. It is Exif Print (Exif 2.2)* compatible.

■ ZoomBrowser EX/PhotoRecord (Windows)

You can import photographs taken with a digital camera into the computer, edit, add a caption and print them in an album format. PhotoRecord is Exif Print (Exif 2.2)* compatible.

■ PhotoStitch (Windows/Macintosh **)

You can select multiple photographs and merge them to create a panoramic photo.

■ Easy-WebPrint (Windows)

You can easily print pages displayed on the Internet Explorer or pages from the *User's Guide* (on-screen manual of this printer) in full size. Easy-WebPrint automatically adjusts the layout when printing a screen. This feature enables you to print a screen without its right end being cut off.

This application is a plug-in for Internet Explorer, and its toolbar is automatically added to Internet Explorer after installation. Internet Explorer 5.5 or later must be installed.

*: Exif Print (Exif 2.2) is a new worldwide standard. Under Exif 2.2, the digital camera can record data tags for specific camera settings and functions such as whether the flash was on or off, if the camera was in portrait or night scene mode, etc. BJ Printers support Exif Print and use a suitable photo application to read the camera data precisely, producing optimal prints. This enables you to create prints that reproduce your vision more accurately than ever before.

** : Mac OS 9 or later is supported.



Printing Borderless Photographs with Windows

This chapter describes the steps used to print from photo applications included with your Setup Software and User's Guide CD-ROM using the Borderless Printing mode.

Note Media Types Suitable for Borderless Printing

Media types compatible with Borderless Printing include Photo Paper Plus Glossy (LTR, 4" x 6" , 5" x 7"), Photo Paper Pro (LTR, 4" x 6"), Matte Photo Paper (LTR), and Glossy Photo Paper (LTR).

Follow the steps below to create color prints of digital camera photographs with Easy-PhotoPrint using the Borderless Printing function. Easy-PhotoPrint supports Exif Print (Exif 2.2). Easy-PhotoPrint can handle only JPEG files (filename extension: .jpg and .jpeg).

1 Start Easy-PhotoPrint.

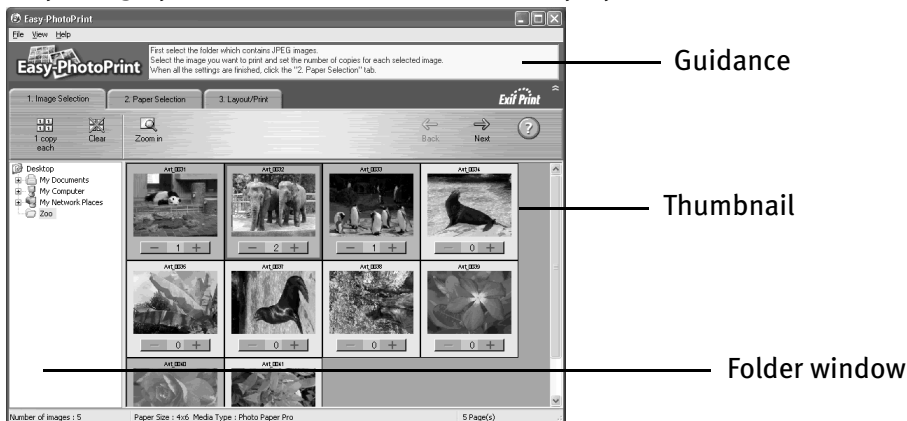
- (1) Store the photographs you took with your digital camera in the folder on the hard disk.

This section describes how to print photographs stored in the folder on the hard disk.

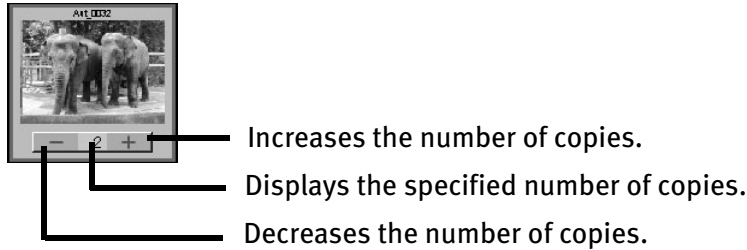
- (2) Click **Start**, select **All Programs** (or **Programs**), **Canon Utilities**, **Easy-PhotoPrint**, and then **Easy-PhotoPrint**.
The **1.Image Selection** sheet is displayed.

2 Select photographs.

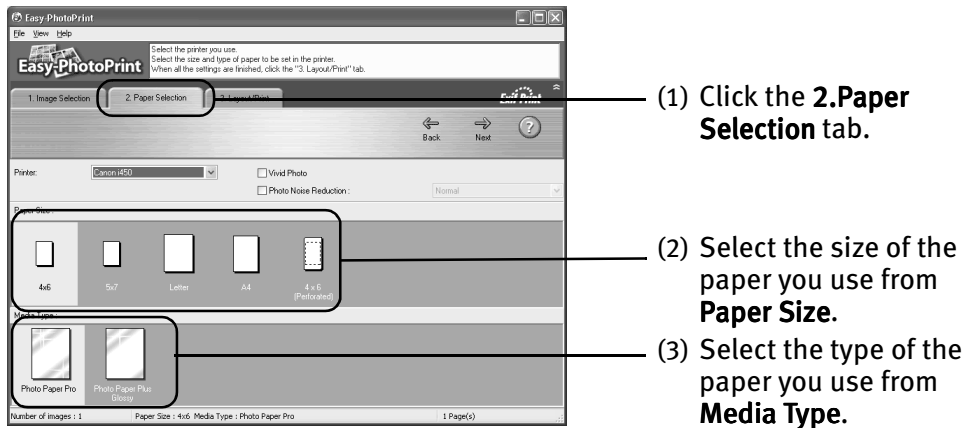
- (1) Select the folder containing the photograph you want to print.
All photographs in the selected folder are displayed.



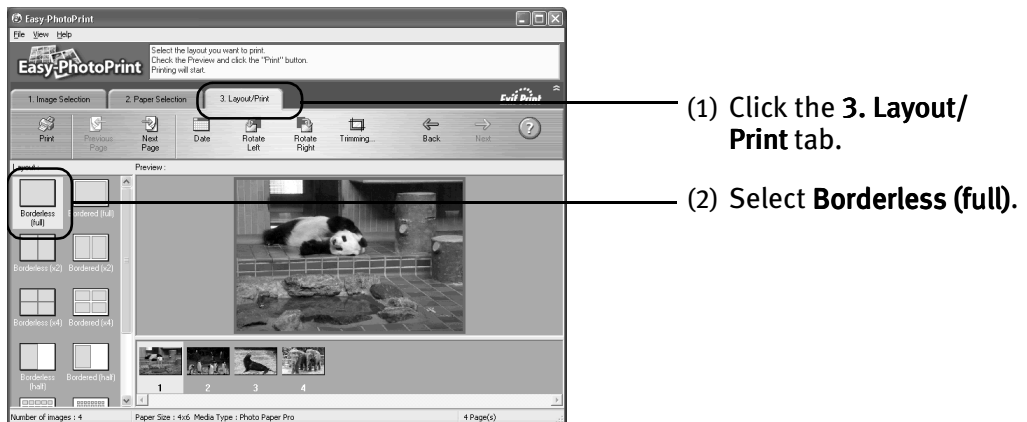
- (2) Click the **[+]** button on the thumbnail of the photograph you want to print and specify the number of copies.



3 Select the paper.



4 Select the layout.



- (3) Load the media specified in the **2. Paper Selection** tab.
- (4) Click **Print**.

Macintosh

Printing Borderless Photographs with Macintosh

This chapter describes the steps used to print from photo applications included with your Setup Software and User's Guide CD-ROM using the Borderless Printing mode.

Note Media Types Suitable for Borderless Printing

Media types compatible with Borderless Printing include Photo Paper Plus Glossy (LTR, 4" x 6" , 5" x 7"), Photo Paper Pro (LTR, 4" x 6"), Matte Photo Paper (LTR) and Glossy Photo Paper (LTR).

Follow the steps below to create color prints of digital camera photographs with Easy-PhotoPrint using the Borderless Printing function. Easy-PhotoPrint supports Exif Print (Exif 2.2). Easy-PhotoPrint can handle only JPEG files (filename extension: .jpg and .jpeg).

1 Start Easy-PhotoPrint.

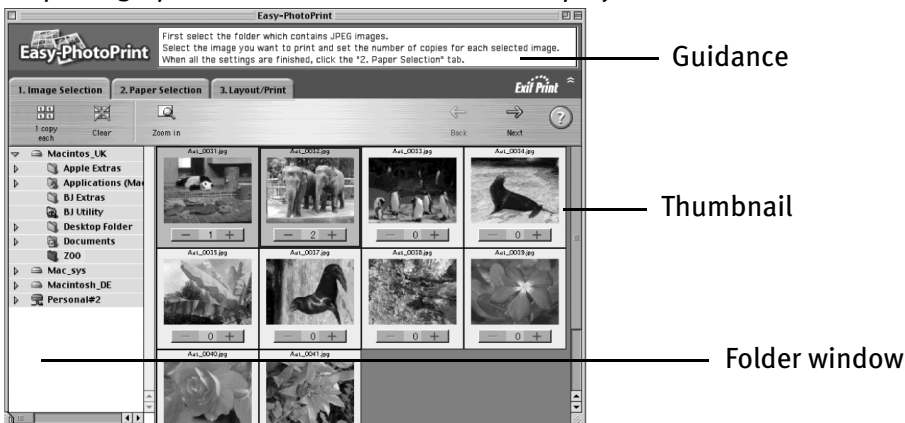
- (1) Store the photographs you took with your digital camera in the folder on the hard disk.

This section describes how to print photographs stored in the folder on the hard disk.

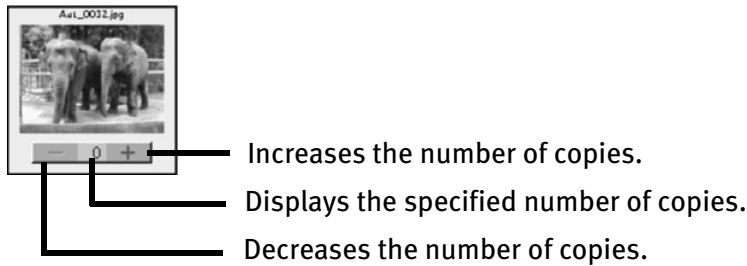
- (2) Open the **Easy-PhotoPrint** folder, and double-click the **Easy-PhotoPrint** icon in the folder.

2 Select photographs.

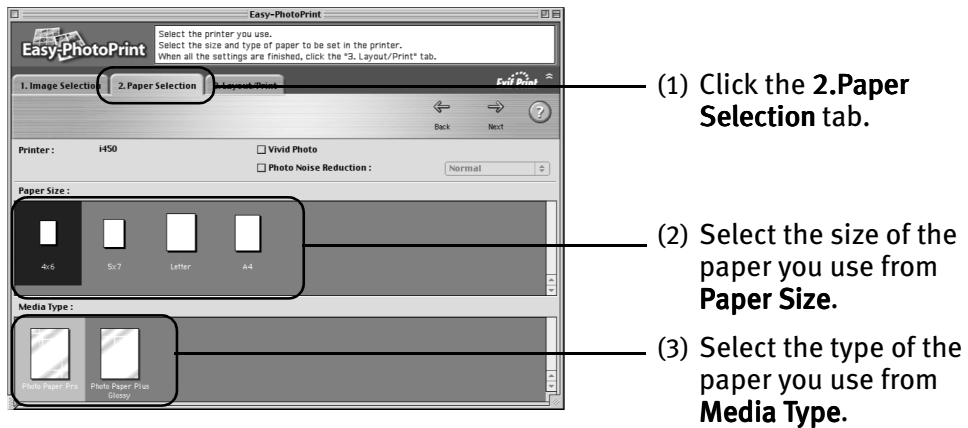
- (1) Select the folder containing the photograph you want to print. All photographs in the selected folder are displayed.



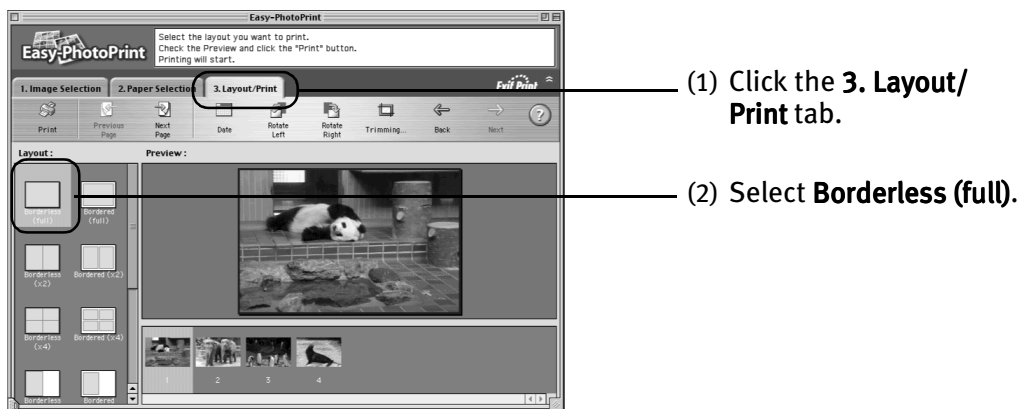
- (2) Click the **[+]** button on the thumbnail of the photograph you want to print and specify the number of copies.



3 Select the paper.



4 Select the layout.

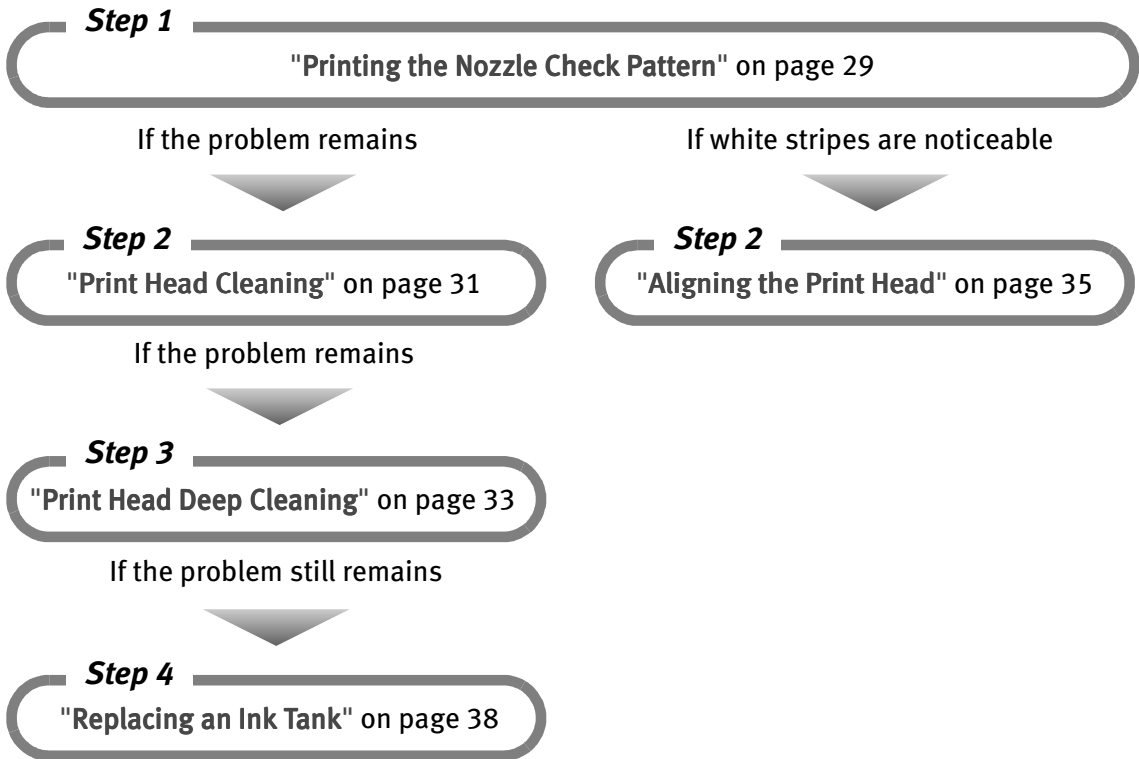



- (3) Load the media specified in the **2. Paper Selection** tab.
 (4) Click **Print**.

Printing Maintenance

When Printing Becomes Faint or Colors are Incorrect


When printing becomes faint or colors are incorrect, even if ink remains in the ink tanks, the print head nozzles are probably clogged. Follow the procedures below to clean the nozzles.



-  **Note**
- If ink tank replacement does not resolve the problem, contact the Customer Care Center.
 - You will be alerted if low ink warning is enabled.

Printing the Nozzle Check Pattern

Print the nozzle check pattern to determine whether the ink ejects properly from the print head nozzles, and to verify print head alignment. Use this function when printed results are blurred or the color is incorrect.

 **Note** Nozzle check pattern printing can be executed also from the printer itself. With the printer on, load a sheet of A4 or Letter paper in the printer. Hold the **RESUME/CANCEL** button until the **POWER** lamp flashes twice.

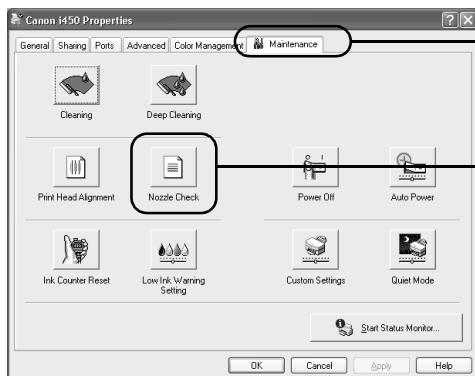
Windows

1 With the printer on, load a sheet of Letter paper in the printer.

2 Open the Printer Properties dialog box.

See "Opening the Printer Properties Dialog Box Directly from the Start Menu" on page 14.

3 Print the Nozzle Check Pattern.



(1) Click the **Maintenance** tab.

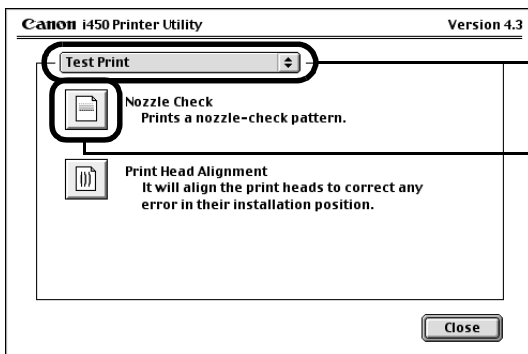
(2) Click **Nozzle Check**.

(3) When the confirmation message is displayed, click **OK**.

See "Examining the Nozzle Check Pattern" on page 30.

Macintosh

- 1 With the printer on, load a sheet of Letter paper in the printer.
- 2 Open the Printer Utility dialog box.
 - (1) Select **Page Setup...** in the **File** menu.
 - (2) Click **Utilities** to open the **Printer Utility** dialog box.
- 3 Print the Nozzle Check Pattern.



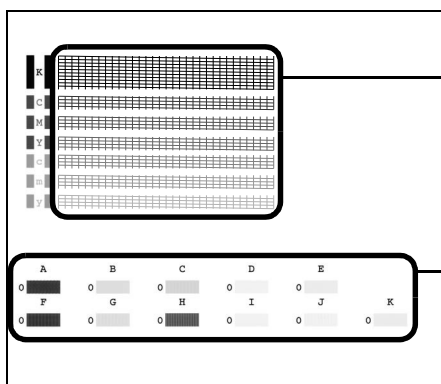
- (1) Select **Test Print** from the pull-down menu.
- (2) Click **Nozzle Check**.

(3) When the confirmation message is displayed, click **OK**.

See "**Examining the Nozzle Check Pattern**" on page 30.

■ Examining the Nozzle Check Pattern

The nozzle check pattern should appear as follows when ink is discharged properly. Examine the nozzle check pattern output by the printer.



- (1) Lines missing here indicate the print head requires cleaning.

See "**Print Head Cleaning**" on page 31.

- (2) Unevenness in these patterns indicates the print head requires alignment.

See "**Aligning the Print Head**" on page 35.

Print Head Cleaning

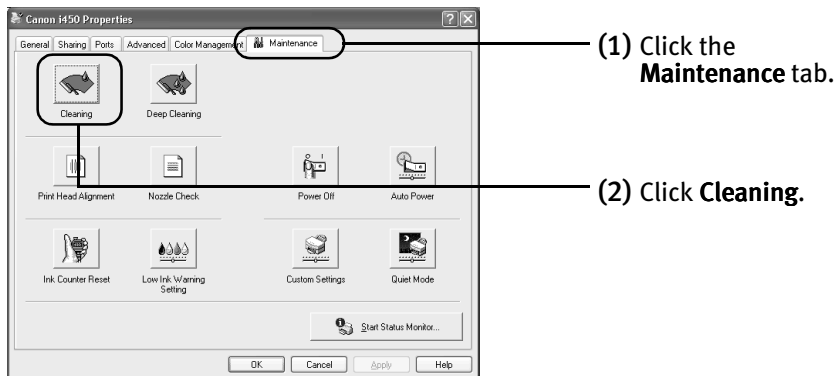
Clean the print head if you suspect that the nozzles might be clogged. Cleaning the print head consumes ink, so perform print head cleaning only when necessary.

Windows

- 1 Ensure that the printer is on.
- 2 Open the Printer Properties dialog box.

See "Opening the Printer Properties Dialog Box Directly from the Start Menu" on page 14.

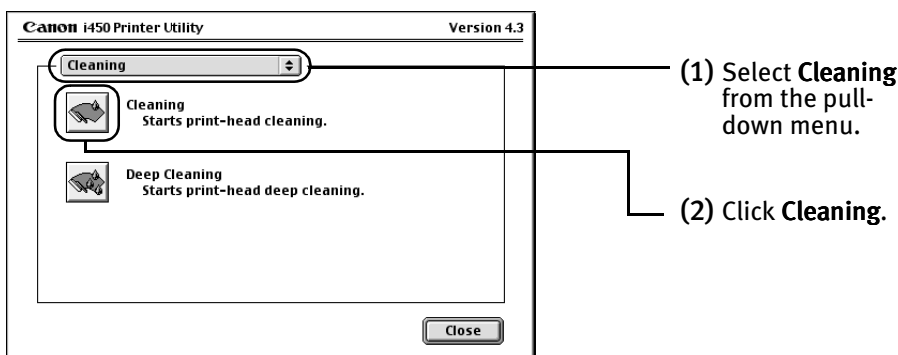
- 3 Start Print Head Cleaning.



- (3) Select the ink nozzles to be cleaned, and then click **Execute**.
- (4) When the confirmation message is displayed, click **OK**.


Macintosh

- 1 Ensure that the printer is on.
- 2 Open the Printer Utility dialog box.
 - (1) Select **Page Setup...** in the **File** menu.
 - (2) Click **Utilities** to open the **Printer Utility** dialog box.
- 3 Start Print Head Cleaning.



- (3) Select the ink nozzles to be cleaned, and then click **OK**.
- (4) When the confirmation message is displayed, click **OK**.

Important Do not perform any other operations until the print head cleaning finishes. This takes about 50 seconds.

-  **Note**
- Print head cleaning can be performed also from the printer itself. Ensure that the printer is on. Hold down the **RESUME/CANCEL** button until the **POWER** lamp flashes once.
 - After print head cleaning finishes, print the nozzle check pattern to verify that the print head nozzles are clean.
- See "Printing the Nozzle Check Pattern" on page 29.
- If the problem persists, perform print head deep cleaning.
- See "Print Head Deep Cleaning" on page 33.

Print Head Deep Cleaning

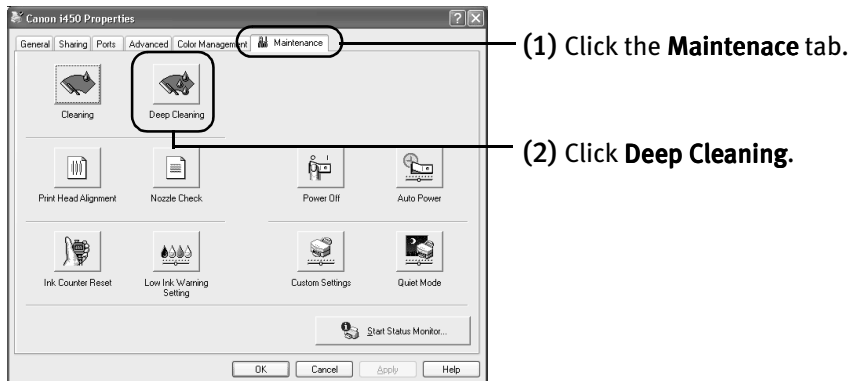
If print quality does not improve by standard print head cleaning, try print head deep cleaning, which is a more powerful process. Print head deep cleaning consumes ink, so perform this procedure only when necessary.

Windows

- 1 Ensure that the printer is on.
- 2 Open the Printer Properties dialog box.

See "Opening the Printer Properties Dialog Box Directly from the Start Menu" on page 14.

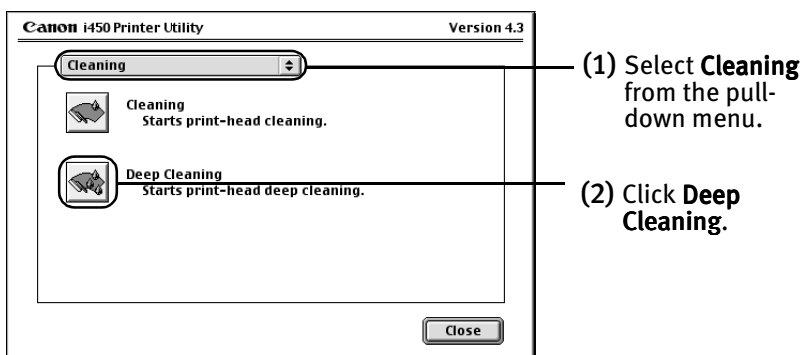
- 3 Start Print Head Deep Cleaning.



- (3) Select the ink nozzles to be cleaned, and then click **Execute**.
- (4) When the confirmation message is displayed, click **OK**.


Macintosh

- 1 Ensure that the printer is on.
- 2 Open the Printer Utility dialog box.
 - (1) Select **Page Setup...** in the **File** menu.
 - (2) Click **Utilities** to open the **Printer Utility** dialog box.
- 3 Start Print Head Deep Cleaning.



- (3) Select the ink nozzles to be cleaned, and then click **OK**.
- (4) When the confirmation message is displayed, click **OK**.

Important The process takes about one minute to complete, so simply wait until the **POWER** lamp stops flashing.

 **Note** After print head deep cleaning finishes, print the nozzle check pattern to verify that the print head nozzles are clean.

See "Printing the Nozzle Check Pattern" on page 29.

If the head is still not clean after the second deep cleaning, replace the ink tank.

See "Replacing an Ink Tank" on page 38.

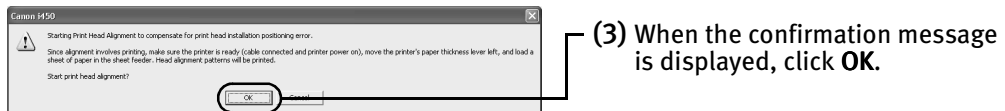
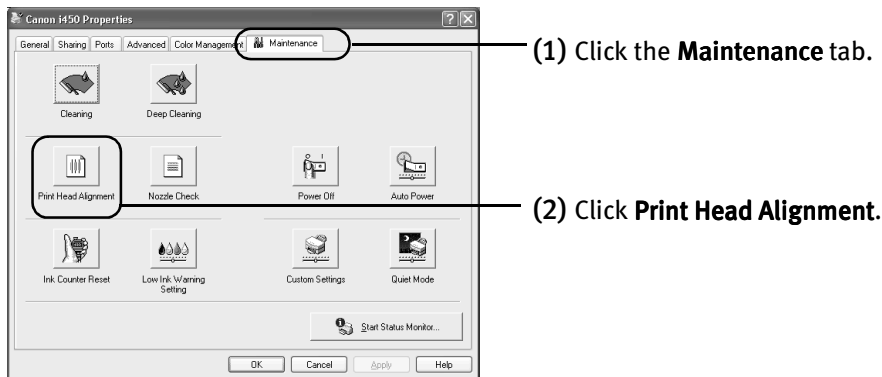
If ink tank replacement does not resolve the problem, the print head may be worn out. Contact the Customer Care Center.

Aligning the Print Head

Aligning the print head position allows you to print without shifts in the color registration.

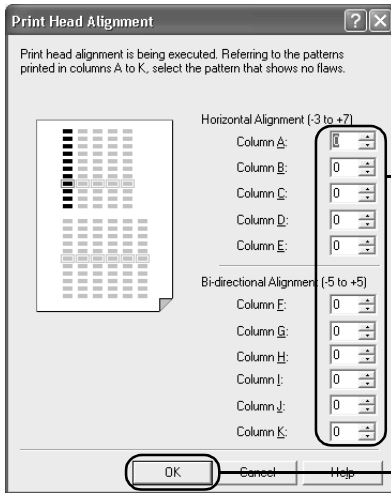
Windows

- 1 With the printer on, load a sheet of Letter paper in the printer.
Move the paper thickness lever to the left position.
- 2 Open the Printer Properties dialog box.
See "Opening the Printer Properties Dialog Box Directly from the Start Menu" on page 14.
- 3 Print the pattern.



4 Align the Print Head.

- (1) Look at the print out. From the patterns, select the most even, least irregular patterns and enter the number that corresponds.

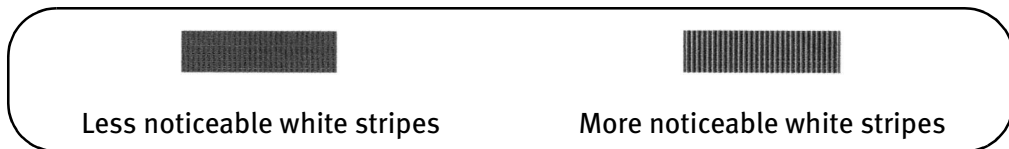


(2) Enter the numbers.

(3) Click **OK**.



Note If it is difficult to pick up the best pattern on Column H, pick the setting that produces the least noticeable vertical white stripes.



- (4) When the confirmation message is displayed, click **OK**.

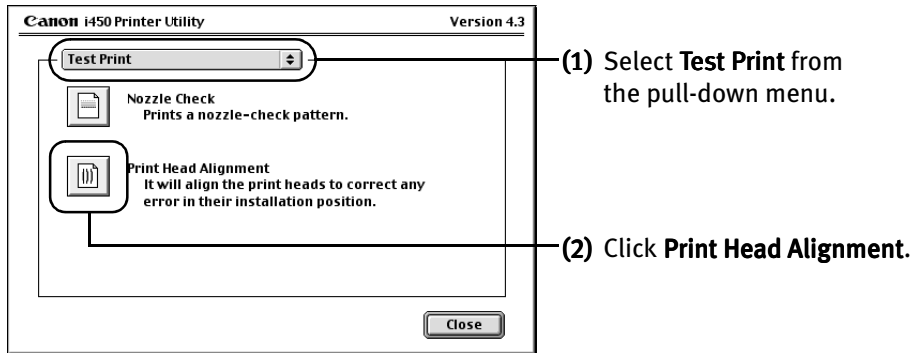
Macintosh

- 1 With the printer on, load a sheet of Letter paper in the printer.
Move the paper thickness lever to the left position.

- 2 Open the Print Utility dialog box.

- (1) Select **Page Setup...** in the **File** menu.
- (2) Click **Utilities** to open the **Printer Utility** dialog box.

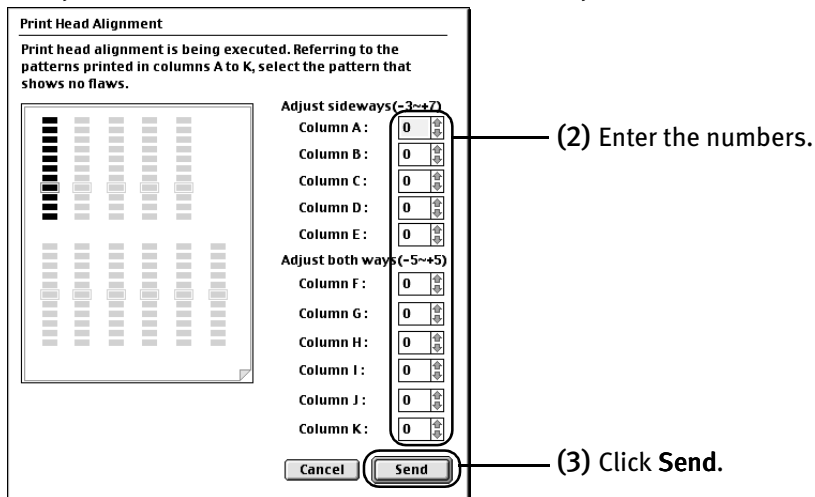
3 Print the pattern.



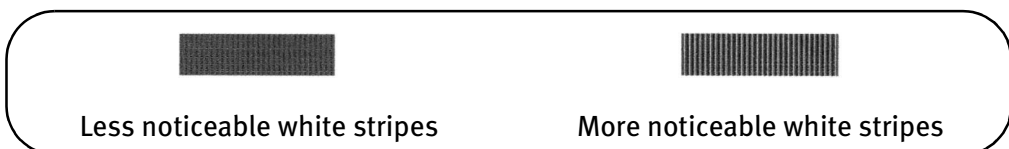
(3) When the confirmation message is displayed, click **OK**.

4 Align the Print Head.

(1) Look at the print out. From the patterns, select the most even, least irregular patterns and enter the number that corresponds.



Note If it is difficult to pick up the best pattern on Column H, pick the setting that produces the least noticeable vertical white stripes.



Replacing an Ink Tank

When replacing an ink tank, check the model number very carefully.
The printer will not print properly if the wrong ink tank is used, or installed in the incorrect position.

Black: BCI-24 Black



Color: BCI-24 Color



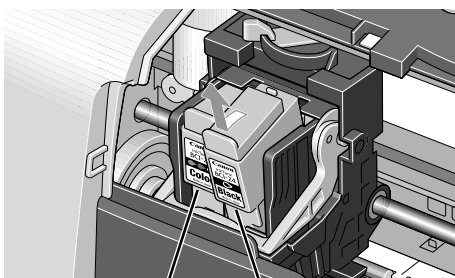
■ Replacing an Ink Tank

When an ink tank runs out of ink, replace it using the following steps.

1 Ensure that the printer is on, and then open the front cover.

The print head holder moves to the left.

2 Remove the empty ink tank.

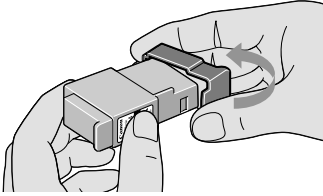


Color Black

- Important**
- Handle ink tanks carefully to avoid staining clothing or the surrounding area.
 - Discard empty ink tanks according to the local laws and regulations regarding disposal of consumables.

3 Prepare a replacement ink tank.

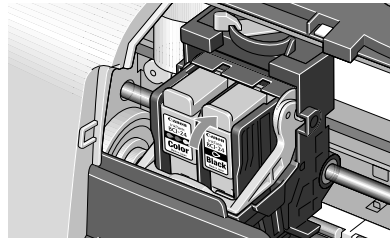
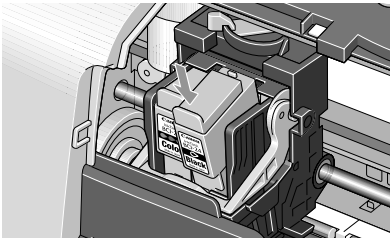
- (1) Unpack a new ink tank and remove the orange protective cap.



- Important**
- Do not re-attach the protective cap once you have removed it.
 - Once the protective cap is removed, do not touch the open ink port.


4 Insert the ink tank.

- (1) Insert a new ink tank into a slot.
- (2) Push in the tab until the ink tank snaps firmly into place.



5 Close the front cover.

The print head holder moves to the right.

-  **Note**
- To maintain optimal print quality, use an ink tank within six months of its first use.
 - Once an ink tank has been used, do not remove it from the printer and leave it out in the open. This will cause the ink tank to dry out and the printer may not function properly if it is reinstalled.
 - Color ink consumption may occur even when black-and-white or grayscale printing is specified.
Color ink is consumed in the head cleaning and deep cleaning, which are necessary to maintain the printer's capabilities.
 - When an ink tank runs out of ink, replace the ink tank with a new one immediately.
If printing is continued with no ink in the ink tank, a trouble may occur.

■ Resetting the Ink Counter

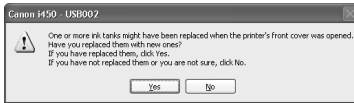
When an ink tank is replaced, the ink counter must be reset. The low ink warning is only displayed properly if the ink counter is reset.

Message Prompting Confirmation of Ink Tank Replacement

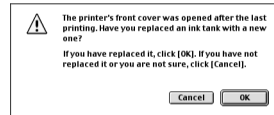
When the front cover remains open for a certain period of time, the printer will output a message prompting you to confirm replacement of the ink tank at the start of the next print job.

1 Check the message, and click Yes or OK.

When using Windows:



When using Macintosh:



2 Select the replaced ink tank, and click OK.

The dialog box allows you to select the replaced ink tank.

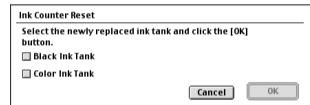
When both black and color ink tanks have been replaced, select both Black and Color.

If you have not replaced the ink tank with a new one, click **Cancel**.

When using Windows:



When using Macintosh:



Important Mistakenly clicking **No** or **Cancel**, instead, will prevent the Ink Low alert from functioning properly. If this happens, manually reset the ink counter according to the following procedure.

Resetting the Ink Counter in Printer Properties dialog box:

- When using Windows:

1. Open the **Printer Properties** dialog box and click the **Maintenance** Tab.
2. Click **Ink Counter Reset**.
3. Select the newly installed ink tank, then click **OK**.

- When using Macintosh:

1. Open the **Page Setup** dialog box.
2. Click **Utilities** and select **Low Ink Warning Setting**.
3. Click **Ink Counter Reset**.
4. Select the newly installed ink tank, then click **OK**.

■ How Low Ink Warning Setting Works

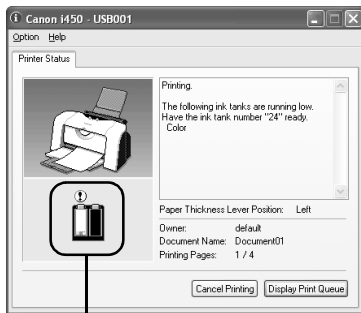
The low ink warning notifies you of low ink levels during printing. The Low Ink Warning has been preset to be automatically displayed.

When you reset the ink counter, it will assume that the ink tank is full regardless of how much ink actually remains. The reset is the only way to match the counter value with an actual ink volume. Reset the ink counter when installing a new ink tank.

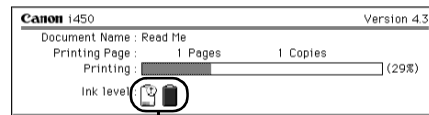
Low Ink Warning Display

The '!' shows a low ink level in the ink tank.

BJ Status Monitor (Windows)



BJ Status Dialog (Macintosh)



The color ink becomes low.

How to Display Low Ink Warning Correctly

- Reset the ink counter every time you install a new ink tank.

The ink counter cannot work correctly unless you synchronize it with the actual ink level. The ink counter can only be adjusted when it is reset at the time a new ink tank is installed.

- Do not reset the ink counter of an ink tank in use.

Synchronization of the counter and the actual ink level will not work properly.

Important If you did not reset the counter when you installed the current ink tanks, the low ink warning may not function correctly, until the next time you replace the ink tanks. Also, be sure to treat both counters separately.
Refer to "Low Ink Warning Accompanied by Ink Tank Icon With '?'" on page 49.

Troubleshooting

Troubleshooting usually falls into one of the following categories. In this chapter you will find the most common printing problems. Refer to the User's Guide for additional information on topics not covered in this section.

- "Cannot Install the Printer Driver" on page 43
- "Print Quality is Poor or Contains Errors" on page 44
- "Troubleshooting Printer Hardware" on page 45
- "Paper Does Not Feed Properly" on page 46
- "Handling Error Messages" on page 47
- "An Error Message Appears on the Screen" on page 48
- "Cannot Print Properly from the Digital Camera" on page 50



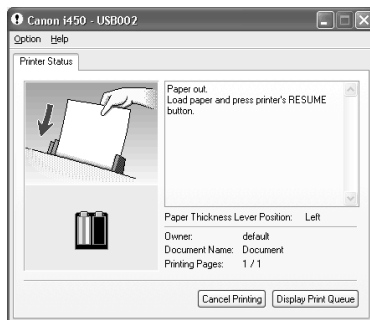
Note If you encounter any problem during installation or operation of your printer, quickly scan all topics to find a resolution. If the problem persists, contact the Customer Care Center. See "Canon offers a full range of customer technical support options" on page 60.

Windows

When Error Occurs


The BJ Status Monitor opens and displays a message. Take the appropriate action described in the message.

The message may vary depending on your operating system.












- When using Windows Me or Windows 98, click the **Guide** tab and follow the on-screen instructions.



Cannot Install the Printer Driver

Problem	Possible Cause	Try This
Cannot Install the Printer Driver	Installation procedure not followed correctly	Follow the <i>Easy Setup Instructions</i> for proper printer driver installation. If the installer was forced to terminate due to an error, remove the CD-ROM from the CD-ROM drive and restart your computer. Reinstall the printer driver. If this problem persists, contact the Customer Care Cener.
	Other applications running in the background	Other applications opened on your computer can interfere with the installation routine. Close all open software applications before reinstalling the printer driver. Refer to the <i>Easy Setup Instructions</i> for installing the printer driver.
	Installation does not start automatically when the CD-ROM is inserted into the drive	<p>Windows If printer driver installation did not start automatically when you inserted the CD-ROM into the CD-ROM drive:</p> <ol style="list-style-type: none"> 1. Click Start and select My Computer. 2. Double-click the CD-ROM icon. <p>For non-XP Windows, open the My Computer window, and then double-click the CD-ROM icon.</p> <p>Macintosh Double-click the CD-ROM icon on your desktop to start installation.</p>
	Installation CD-ROM not working properly	<p>Confirm that there are no problems with the Setup Software & User's Guide CD-ROM.</p> <p>Windows Use Windows Explorer to confirm that the CD-ROM can be read.</p> <p>Macintosh Confirm that the CD-ROM icon is displayed on the desktop. If there is any problem with the CD-ROM, contact the Customer Care Center.</p>
	Unable to proceed beyond the Printer Port Screen	<p>Windows</p>  <p>Reinstall the printer driver</p> <ol style="list-style-type: none"> 1. Click Cancel. 2. When the Terminate Installation screen is displayed, click OK. 3. Click Exit, then remove the CD-ROM. 4. Turn the printer off. 5. Restart the computer. 6. Carefully follow the procedures described in the <i>Easy Setup Instructions</i> and reinstall the driver.

Print Quality is Poor or Contains Errors

Problem	Possible Cause	Try This
Ink does not eject properly/Printing is Blurred/ Colors are Wrong / White Streaks appears / Printed Ruled Lines are Displaced	Ink tank is not seated properly	Check that the ink tanks are firmly seated in the print head and reseal them if necessary.
	Print head nozzles clogged	Print the nozzle check pattern to check for uneven ink output. See " Printing the Nozzle Check Pattern " on page 29. When a specific color is missing from the nozzle check pattern, clean the print head. If ink supply is uneven: See " Print Head Cleaning " on page 31.
	Media not loaded with the print-side up	Check that your paper is loaded with the correct print side facing up.  Note Follow the instructions packaged with your speciality media for loading and handling.
	Incorrect paper type	 Windows On the Main tab, confirm that the Media Type selected matches the paper loaded.  Macintosh In the Print dialog box, confirm that the Media Type selected matches the paper loaded.
	Print Quality not set properly	Be sure to set the Print Quality setting to High for Windows or Fine for Macintosh.  Windows On the Main tab, click High for the Print Quality setting.  Macintosh 1. Select Manual in the Print Mode pull-down menu in the Print dialog box and then click Details . 2. Click the Quality icon and then drag the Print Quality slide bar to the Fine end.
Printed Paper Curls or Ink Blots	Paper being used is too thin	Use High Resolution Paper or Photo Paper Pro to print images that require a lot of ink (i.e. pictures with intense colors or photographs).
	Color Intensity setting is too high	Reduce the Intensity setting in the printer driver and try printing again.  Windows 1. Open the Printer Properties dialog box. 2. On the Main tab, select Manual for Color Adjustment , and then click Set . 3. Drag the Intensity slide bar to adjust the intensity.  Macintosh 1. Open the Print dialog box. 2. In the Print Mode pull-down menu, select Manual and then click Details . 3. Click the Color icon, then drag the Intensity slide bar to set the intensity.
	Paper feed roller is dirty	Clean the paper feed roller. See " Paper Does Not Feed Properly " on page 46.
Printed Surface is Scratched	Inappropriate paper type used	Check to see if the paper you are printing on is too thick or curled. See " Print Media to Avoid " on page 3. Note that smudging may occur at the top and bottom edges of the paper when using Borderless Printing. Ensure that the paper you are using is compatible with Borderless Printing.  Windows See " Media Types Suitable for Borderless Printing " on page 24  Macintosh See " Media Types Suitable for Borderless Printing " on page 26

Troubleshooting Printer Hardware

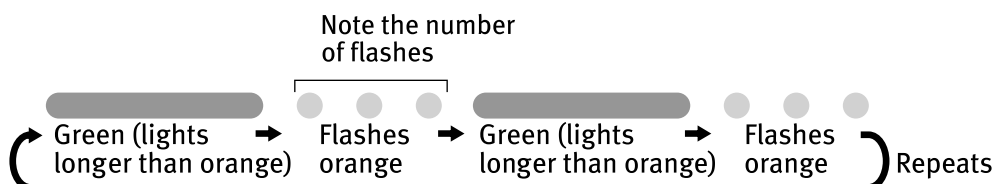
Problem	Possible Cause	Try This
Printer Does Not Start or Printer Stops During Print Jobs	Print head has overheated due to long periods of continuous printing	<p>Stop printing and turn the printer off for at least 15 minutes to allow the print head to cool down.</p> <p>The print head tends to overheat when printing continuously for long periods of time. The print head is designed to automatically pause at line breaks before resuming printing in order to cool down.</p> <p>Caution The area around the print head can become extremely hot during extended print operation. Always avoid touching the print head and its peripheral components.</p>
	Printing high-resolution photographs and graphics	<p>Wait until the print job finishes.</p> <p>The POWER lamp flashes green while the print data is being processed. Printing photographs and high-density graphics can take time.</p>
	Printer cable is too long	Avoid using USB cables longer than 16.4 feet.
	There may be problems in your operating system	<p>Restart your computer. It may solve the problem.</p> <p>Delete an undesired print job if there is any. Use BJ Status Monitor in Windows or BJ Print Monitor in Macintosh for the deletion.</p> <p>Windows</p> <ol style="list-style-type: none"> 1. Open the Printer Properties dialog box. See "Opening the Printer Properties Dialog Box Directly from the Start Menu" on page 14. 2. Click Maintenance tab and then Start Status Monitor. 3. Click Display Print Queue. 4. Select Cancel All Documents in the Printer menu. Click Yes when a confirmation message appears. The print job is deleted. <p> Note In Windows Me or Windows 98 Click to select an undesired document and select Purge Print Documents in the Printer menu.</p> <p>Macintosh</p> <ol style="list-style-type: none"> 1. Double-click BJ Print Monitor in the Extensions in the System Folder. 2. Click to select an undesired document and click . <p>The print job is deleted.</p>
Cannot Print to End of Job	Incorrect page size selected	<p>Verify that the page size setting matches the size of the paper loaded in the printer:</p> <ul style="list-style-type: none"> - Check the Paper Size setting from within your application to ensure that it matches the size of the paper loaded. - Check the Page Setup tab in the Printer Properties dialog box (for Windows) or the Page Setup dialog box (for Macintosh) to ensure that it matches the size of the paper loaded.
	Not enough free space on hard disk	<p>Your operating system may be out of free disk space.</p> <p>Check the available space on your computer's hard disk.</p>


Paper Does Not Feed Properly

Problem	Possible Cause	Try This
Paper Does Not Feed Properly	Inappropriate paper type used	Check to see if the paper you are printing on is too thick or curled. See " Print Media to Avoid " on page 3.
	Paper feed roller is dirty	<p>Follow the steps described below to clean the paper feed rollers. If envelopes or post cards do not feed properly, even after correcting any paper curl, clean the paper feed roller.</p> <ol style="list-style-type: none"> 1. Ensure that the printer is on and there is no paper loaded in the printer. 2. Hold the RESUME/CANCEL button down and release after the POWER lamp flashes three times. The paper roller rotates as it cleans. Repeat this cleaning operation three times. 3. Load a sheet of Letter plain paper in the printer. 4. Hold the RESUME/CANCEL button down and release after the POWER lamp flashes three times, then feed the sheet of paper. Repeat this operation three times. <p>If the printer still does not feed the envelopes or the post cards properly through the printer, even after the cleaning operation, repeat the procedure.</p>
	Paper Jams	<ol style="list-style-type: none"> 1. Gently pull the jammed paper out of the sheet feeder slot or the paper output slot, whichever is easier. <ul style="list-style-type: none"> • If the paper tears and some of it is left in the printer, turn the printer off, then open the front cover and remove the piece of paper. Do not touch internal parts in the printer. If you cannot reach or remove the torn paper, do not attempt to disassemble the printer yourself. Contact the Customer Care Center. • If you cannot extract the paper, turn the printer off, and then turn it back on. The remaining paper will be ejected automatically. 2. Close the front cover and reload the paper into the sheet feeder, then press the RESUME/CANCEL button on the printer.








Handling Error Messages

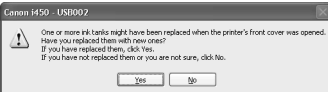

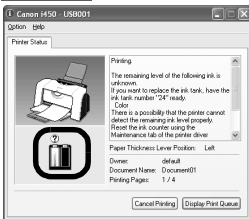
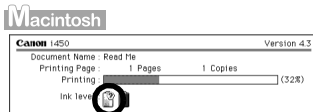
When a printer error occurs, the POWER/ERROR lamp flashes. The number of flashes indicates the type of error that has occurred. Count the flashes and take the appropriate action to correct the error.



Number of Flashes	Possible Cause	Try This
Two flashes	Printer is out of paper	Reload paper and press the RESUME/CANCEL button.
Three flashes	Paper jam	If a paper jam occurs, clear the jammed paper, reload paper in the printer, then press the RESUME/CANCEL button. See "Paper Jams" on page 46.
Six flashes	Print head not installed	Install print head.
Seven flashes	Defective print head	Press the POWER button to turn off the printer, and press the POWER button again to turn on the printer. If the same error occurs, the print head may be defective. Contact the Customer Care Center.
Eight flashes	Waste ink tank almost full	The printer has a built-in waste ink tank to hold the ink consumed during print head cleaning. Eight flashes indicates that this tank is nearly full. Press the RESUME/CANCEL button to clear the error so printing can continue. Contact the Customer Care Center.
Eleven flashes	A specified period of time has lapsed without receiving no response from the digital camera / The digital camera or digital video camcorder connected is not compatible with this printer	Press the printer's RESUME/CANCEL button. After the error has cleared, the digital camera or digital video camcorder turns on. If the camera is not of a type that turns on automatically, be sure to turn the power on manually. If the error is not fixed, disconnect the camera cable, press the printer's RESUME/CANCEL button and reconnect the cable. If the error is still unresolved, there is a possibility that you are using a digital camera or digital video camcorder that is not supported by this printer. Use Canon "Bubble Jet Direct" compatible digital cameras or digital video camcorders.
 Note	POWER lamp flashes alternately green and orange	An error that requires contacting the Customer Care Center may have occurred. Disconnect the printer cable from the printer, and then turn the printer off and unplug the printer from the power supply. Plug the printer back in and turn the printer back on after leaving it about 10 minutes. If the problem remains, contact the Customer Care Center.

An Error Message Appears on the Screen

Problem	Possible Cause	Try This
 Windows Error Writing / Output to USBxxx	Printer not ready	The POWER lamp will flash green when the printer is warming up or when a print job is being sent to the printer. It will glow a steady (non-flashing) green when it is ready for use or when the print job is completed.
	Paper is not loaded	Load paper and press the RESUME/CANCEL button.
	Faulty connection	Ensure that the printer cable is securely connected to the computer.  Note If you are using switching hub or other device, disconnect the printer and reconnect it directly to the computer and try printing again. If successful, the problem may have been with the device. There could also be a problem with the cable(s). Replace the cable(s) and try printing again.
	Printer port error	Verify the printer port status. Double-click Universal Serial Bus (USB) controllers on the Device Manager dialog box, then double-click Canon i450 to see the status. Refer to the User's Guide for instructions on how to verify the status.
	Printer port settings and printer interface do not match	Confirm that the destination Printer Port is set to USB PRNnn (Canon i450) or USBnn (Canon i450) (Where nn represents a number). If the settings are not correct, follow the procedures described in the <i>Easy Setup Instructions</i> and reinstall the printer driver. Refer to the <i>User's Guide</i> for instructions on how to verify status and the correct action to take.
	Printer driver is not installed properly	Uninstall then reinstall the printer driver. 1. Click Start , and select All Programs (or Programs) , Canon i450 , and Uninstall . 2. Follow the on-screen instructions to uninstall driver. 3. Follow the procedures described in the <i>Easy Setup Instructions</i> and reinstall the printer driver.
 Macintosh "Error No.: X202"	Not enough memory	Increase available memory by closing any other applications currently running.
 Macintosh "Error No.: X203"	Printer driver fault	Uninstall, then reinstall printer driver. Refer to the <i>User's Guide</i> for instructions on how to uninstall the printer driver.
 Macintosh "Error No.: X300"	Printer not ready	If the POWER lamp is off, turn the printer on. If the POWER lamp is flashing green, the printer is initializing. Wait until the POWER lamp stops flashing.
	Printer not properly connected	Ensure that the printer is securely connected to the computer.  Note If you are using switching hub or other device, disconnect the printer and reconnect it directly to the computer and try printing again. If successful, the problem may have been with the device. There could also be a problem with the cable(s). Replace the cable(s) and try printing again.
	Printer not selected in Chooser	1. From the Apple menu, select Chooser . 2. Click the i450 icon and ensure that the i450 is selected as the target connection. If not, select it.  Note If the problem persists, delete all unnecessary documents from the Extensions and Control Panels folder.

Problem	Possible Cause	Try This
Have you replaced ink tank with a new one? message appears	If the ink tank has been replaced with a new one	<div> <div> Windows  </div> <div> Macintosh  </div> </div> <p>Click Yes or OK to reset the ink counter. See "Resetting the Ink Counter" on page 40.</p>
	If the front cover has been open for a certain period (the ink tank has not been replaced)	<p>Click No or Cancel on the dialog box described above.</p> <p>You can choose the option to disable the display of this confirmation message.</p> <div> Windows <ol style="list-style-type: none"> Ensure that the printer is on and open the Printer Properties dialog box. On the Maintenance tab, click Low Ink Warning Setting. Clear a check box of Display a confirmation message of Ink tank replacement and click Send. </div> <div> Macintosh <ol style="list-style-type: none"> Ensure that the printer is on and open the Page Setup dialog box. Click Utilities to open the Printer Utility dialog box. Select Remaining Ink level Setting from the pull-down menu and click Low Ink Warning Setting. Clear a check box of Display a confirmation message of Ink tank replacement and click Send. </div>
Low Ink Warning Accompanied by Ink Tank Icon With '?'	Failure to reset ink counter when installing new ink tank	<p>The ink tank level accompanied by the ink tank icon with the "?" indicates ink tank is not synchronized with its ink counter.</p> <div> <div> Windows  </div> <div> Macintosh  </div> </div> <p>Always be sure to reset the ink counter in your printer driver when you replace ink tank. See "Resetting the Ink Counter" on page 40.</p> <p>Note A "?" is displayed next to the Ink counter between the time one ink tank is removed and the ink counter is reset when the next one is installed. Display of the "?" can be disabled by unchecking the Display low Ink Warning check box.</p> <div> Windows <ol style="list-style-type: none"> Ensure that the printer is on and open the Printer Properties dialog box. On the Maintenance tab, click Low Ink Warning Setting icon. Clear a check box of Display low ink warning off and click Send. </div> <div> Macintosh <ol style="list-style-type: none"> Ensure that the printer is on and open the Page Setup dialog box. Click Utilities to open the Printer Utility dialog box. Select Remaining ink level setting from the pull-down menu and click Low Ink Warning Setting. Clear a check box of Display low ink warning off and click Send. </div>

Cannot Print Properly from the Digital Camera

The following messages may be displayed on the digital camera or digital video camcorder when images are printed directly from them. Correct the error according to the procedure below.

Camera Error Message	Possible Cause	Try This
Printer in use	Images are printed from the computer.	Wait until printing ends. The printer automatically starts printing the images from the camera after completing the current printing.
Printer warming up	The printer is warning up.	Wait until warm-up ends. When it is ready, the printer starts printing automatically.
No Paper	No paper is loaded.	Load the paper in the printer and press the RESUME/CANCEL button on the printer.
Paper Jam	A paper jam occurs in the printer.	Remove the jammed paper, load new media, and press the RESUME/CANCEL button.
Printer cover open	The front cover is open.	Close the front cover.
No print head	No print head is installed. (The POWER lamp on the printer flashes six times.)	Install a print head according to the <i>Easy Setup Instructions</i> .
	The print head is defective. (The POWER lamp on the printer flashes seven times.)	Contact the Customer Care Center.
Waste tank full	The waste ink tank is nearly full.	Press the RESUME/CANCEL button on the printer to recover from the error. Contact the Customer Care Center as soon as possible.
Paper lever error	Incorrect position of the paper thickness lever.	Open the front cover and adjust the paper thickness lever to the left position.
Printer error	An error requiring servicing has occurred. (The POWER lamp on the printer flashes alternately orange and green.)	Turn off the printer, unplug the power cord from the power supply, plug the power cord back in, and then turn on the printer. If the same error occurs, contact the Customer Care Center.



Note


- Images can be printed directly from Canon "Bubble Jet Direct" compatible digital cameras and digital video camcorders connected to this printer.
- If the connected digital camera or digital video camcorder does not support "Bubble Jet Direct", the **POWER** lamp on the printer flashes eleven times. If this happens, disconnect the connection cable and press the **RESUME/CANCEL** button.
- If the operation time or data transmission time is too long when the digital camera or digital video camcorder is connected to this printer, a communication time error may occur and no more images can be printed. If this error occurs, press the **RESUME/CANCEL** button. They will automatically turn on. If not, turn it on.
- A low ink warning is not displayed on the digital camera's viewer.
- After replacing an ink tank, cancel the connection with the digital camera and reset the ink counter by operating the computer.
See "**Resetting the Ink Counter**" on page 40
If the ink counter is not reset, the remaining ink level may not be displayed properly.
- For more details, also refer to the user's manual for the digital camera or digital video camcorder.
If there is a problem with the digital camera or digital video camcorder, contact the Customer Care Center.

Appendix

Installing the Printer Driver when using Mac OS 9.x

When using other than Mac OS X (Mac OS 8.6 to 9.x), install the printer driver following the procedure below.

Screen shots may differ depending on the operating system used.

- 1** Turn on your Mac and insert the *Setup Software & User's Guide CD-ROM*.
TURN THE PRINTER ON.
- 2** Open the Mac OS 8.6-9.x folder on the CD-ROM, then double-click the Printer Driver folder.
- 3** Double-click the Installer icon in the Printer Driver folder.
- 4** Read the License Agreement and click Accept, if you agree.
- 5** Click Install.
The printer driver will load automatically.
- 6** If the message "No other applications can be running..." displays, click Continue.
- 7** When the "Installation was successful" screen displays, click Restart.
- 8** From the Application folder, double-click on the software to be installed. Follow the on-screen instructions.
- 9** When the "Installation has Finished" screen appears, click OK.
- 10** When prompted, restart your computer.
- 11** Select the Apple menu, then Chooser.
- 12** Click the i450 icon in the Chooser.
- 13** Close the Chooser.
 **Note** Register your product at www.registercanon.com to ensure product support.

- 14** To ensure highest quality output, continue with Step 7 Align the Print Head on the *Easy Setup Instructions*.

User's Guide Table of Contents

Your printer's User's Guide offers detailed information on the following topics.

How to Use This Manual

Printer Parts and Their Function

Useful Printing Techniques

- Printing with Borderless Printing
- Reducing Noise from Images Captured with Digital Camera
- Achieving Vivid Reproduction of Images with Lots of Greens and Blues
- Printing with Color and Brightness Automatically Optimized
- Adjusting Print Quality
- Smoothing the Rough Edges of Certain Images (Windows)
- Automatically Resizing the Image to Fit the Page
- Resizing the Image by Selecting the Scaling Ratio
- Printing Multiple Pages on a Single Page
- Enlarging a Document by Printing it on Multiple Pages
- Printing Multiple Pages for Assembly into a Booklet
- Printing on Both Sides of the Page
- Printing Stamped Messages on Documents (Windows)
- Printing Background Images on Documents (Windows)
- Adding Illustrated Effect to Documents
- Printing Entire Image in Single Color
- Printing in Grayscale
- Reversing the Page Printing Order
- Printing on Nonstandard Size Paper
- Reducing the Sound of Printer Operation
- Registering Printer Driver Settings

Printing Media

- Compatible Media Types
- Envelopes
- High Resolution Paper
- Glossy Photo Paper

- Photo Paper Pro
- Photo Paper Plus Glossy
- Matte Photo Paper
- Transparencies
- T-Shirt Transfers

Checking the Status of the Printer

- BJ Status Monitor Functions
- BJ Print Monitor

Troubleshooting

- Cannot Install Printer Driver
- Print Quality is Poor
- Printer Does Not Start or Stops During Print Jobs
- Paper Does Not Feed Properly or Paper Jams
- The **POWER** Lamp Flashes Orange
- An Error Message is Display on the Screen
- Cannot Print Properly from the Digital Camera
- Problems Unique to Windows
- Problems Unique to the Macintosh

Appendix

- Printing Area
- Using the Printer with a Network
- Uninstalling the Printer Drivers
- Uninstalling the User's Guide
- Transporting printer
- Printer Driver Functions (Windows)
- Printer Driver Functions (Macintosh)

Specifications

Printer

Printing resolution:	4800 X 1200 dpi. max. (Ink droplets can be placed in a pitch of 1/4800 inch at minimum.)
Print speed *	Black printing Draft: 18 ppm Standard: 11.8 ppm Color printing Draft: 12 ppm Standard: 4.9 ppm
*Print speed may vary with the content of the document and the processing speed of the host computer.	
Print width:	203.2 mm max. (8.0 in) (for Borderless Printing: 216 mm / 8.5 in)
Resident print control mode:	Canon extended mode
Receive buffer:	56 KB
Interface:	USB
Acoustic noise level:	Approx. 45 dB (A) (in the highest print quality mode)
Operating environment:	Temperature: 5 to 35°C (41 to 95°F) Humidity: 10 to 90%RH (no condensation)
Storage environment:	Temperature: 0 to 40°C (32 to 104°F) Humidity: 5 to 95% RH (no condensation)
Power supply:	AC 100-127 V, 50/60 Hz AC 220-240 V, 50/60 Hz
Power consumption:	Standby: Approx. 2 W Printing: Approx. 16 W
Dimensions (with the paper rest and paper output tray retracted):	15.47 (W) X 10.16 (D) X 7.95 (H) in
Weight:	Approx. 3.7 kg (8.16 lb.)
Graphic image printing:	Data format: Canon extended mode: Raster image format Resolution: Canon extended mode: 300, 600, 1200, 4800 dpi
Print Head:	Black: 320 nozzles (600 dpi) Cyan, Magenta, Yellow: 256 nozzles per each color (600 dpi)
Ink Tanks:	Capacity (pages): Black (BCI-24 Black) approx. 300 ^{*1} , approx. 580 ^{*2} Color (BCI-24 Color) approx. 160 ^{*2}

^{*1} 1500 characters per page, normal text, at standard and plain paper mode with Windows XP printer driver

^{*2} Based on printing the ISO JIS-SCID No.5 pattern at standard and plain paper mode with Windows XP printer driver

Camera Direct Print

Interface	Camera Port (Connect a Canon "Bubble Jet Direct" compatible digital camera or digital video camcorder using the USB cable supplied with the camera.)
Compatible digital cameras and digital video camcorders	Canon "Bubble Jet Direct" compatible digital cameras and digital video camcorders
Compatible Paper	Card #1 (Photo Paper Pro 4" x 6" /101.6 x 152.4 mm), Card #2 (Photo Paper Plus Glossy 4" x 6" /101.6 x 152.4 mm), Card #3 (Photo Paper Plus Glossy 5" x 7" /127.0 x 177.8 mm), LTR (Photo Paper Pro or Photo Paper Plus Glossy Letter), A4 (Photo Paper Pro or Photo Paper Plus Glossy A4)
Layout Print	Standard: Borderless / with border, Index Print: 15-80 images
Print Quality	1 level
Effect	Exif Print
DPOF Functions	Ver. 1.00 compatible (Index print, number of copies, select images, print special characters (date/image no.))

BJ Printer Driver Systems Requirements

Windows

- Use a computer equipped on which Windows XP, Windows 2000, Windows Me, Windows 98 can operate.
- USB interface
- Available hard-disk space for printer driver installation
Windows XP/Windows 2000: 50MB
Windows Me/Windows 98/Windows 95: 15MB

USB operation can only be guaranteed on a PC with pre-installed Windows XP, Windows 2000, Windows Me, or Windows 98. (This includes Windows XP, Windows 2000, or Windows Me upgraded from pre-installed Windows 98 or later)

Macintosh

- Use a Macintosh series computer equipped with USB interface on which Mac OS 8.6-9.x or Mac OS X v.10.2.1 or later can operate.
- Available hard-disk space for printer driver installation
Mac OS 8.6-9.x: 30 MB
Mac OS X v.10.2.1 or later: 110 MB
- The following functions are not supported when using Mac OS X v.10.2.1 or later:
 - Duplex Printing
 - Photo Optimizer PRO

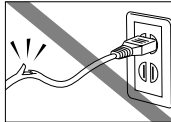
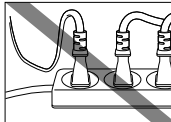
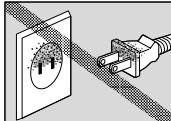

Additional Systems Requirements for User's Guide

- Pentium®, 75 MHz equivalent or higher processor (Pentium®, 133MHz equivalent or higher processor recommended)
- 2x or higher CD-ROM drive (4x or higher recommended)
- 20 MB of available hard-disk space
- Microsoft Internet Explorer 5.0 or later

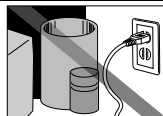
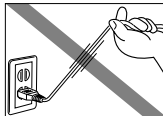

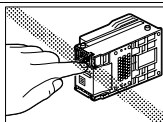
⚠ Safety Precautions

Please read the safety warnings and cautions provided in this manual to ensure that you use your printer safely. Do not attempt to use printer in any way not described in this manual.

Warning You may cause an electric shock/fire or damage the printer if you ignore any of these safety precautions.

Choosing a location	Do not place the printer close to flammable solvents such as alcohol or thinners.
Power supply	Never attempt to plug in or unplug the printer from the power supply when your hands are wet.
	Always push the plug all the way into the power outlet.
	Never damage, modify, stretch or excessively bend or twist the power cord. Do not place heavy objects on the power cord. 
	Never plug the printer into a power socket that is shared with other equipment (extension lead/cord, 2- or 3- way adapter, etc.). 
	Never use the printer if the power cord is bundled or knotted.
	If you detect smoke, unusual smells or strange noises around the printer, immediately unplug the printer at the power supply and call for service.
Cleaning the printer	Periodically, unplug the printer and use a dry cloth to wipe off any dust or dirt collected on the plug and the power outlet. If the printer is placed at a location exposed to a lot of dust, smoke, or high humidity, the dust collected on the plug absorbs moisture and may cause insulation failure and fire. 
	Use a damp cloth to clean the printer. Never use flammable solvents such as alcohol, benzene or thinners. If flammable solvents come in contact with electrical components inside the printer, it could cause a fire or electric shock. 
	Always unplug the printer from the power outlet before cleaning the printer. If you accidentally switch the printer on while cleaning it, you could injure yourself or damage the printer.
Maintaining the printer	Do not attempt to disassemble or modify the printer. There are no user serviceable parts inside the printer. The printer contains high-voltage components. Never attempt any maintenance procedure not described in this guide.
Working around the printer	Do not use flammable sprays near the printer. This could cause a fire or electric shock if the spray comes into contact with electrical components inside the printer.

Caution You may cause injury or damage the printer if you ignore any of these safety precautions.

Choosing a location	Do not install the printer in a location that is unstable or subject to excessive vibration.	
	Do not install the printer in locations that are very humid or dusty, in direct sunlight, outdoors, or close to a heating source. To avoid the risk of fire or electric shocks, install the printer in a location with an ambient temperature range of 5°C to 35°C (41°F to 95°F) and humidity of 10% to 90% (condensation free).	
	Do not place the printer on a thick rug or carpet.	
	When moving the printer, carry the printer at both ends.	
Power supply	Ensure that the area around the power outlet is kept clear at all times so you can easily unplug the power cord if necessary.	
	Never remove the plug by pulling on the cord.	
	Do not use an extension lead/ cord.	
	Never use a power supply source other than the one rated for the printer in the country where you purchased the printer. AC 100-127 V, 50/60 Hz AC 220-240 V, 50/60 Hz	
Working around the printer	Never put your hands or fingers in the printer while it is printing.	
	Do not place metal objects (paper clips, staples, etc.) or containers of flammable solvents (alcohol, thinners, etc.) on top of the printer.	
	If any foreign object (metal or liquid) fall into the printer, unplug the power cord and call for service.	
Print heads and ink tanks	For safety reasons store print heads and ink tanks out of the reach of small children. If a child ingests any ink, consult a doctor immediately.	
	Do not shake print heads or ink tanks. Ink may leak out and stain clothing or the surrounding area.	
	Never touch the electrical contacts on a print head after printing. The metal parts may be very hot and could cause burns.	
		

Regulatory Information

Color Printer Model: K10224 (i450)

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 a shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the 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
1-516-328-5600

Canadian Radio Interference Regulations

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

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

CANON LIMITED WARRANTY --- (USA Only)

The limited warranty set forth below is given by Canon U.S.A., Inc. ("Canon USA") with respect to the new or refurbished Canon-brand printer or scanner (each a "Product") packaged with this limited warranty, when purchased and used in the United States only.

The Product is warranted against defects in materials and workmanship under normal use and service (a) for a period of one (1) year from the date of original purchase when delivered to you in new condition in its original container or (b) for 90 days from the date of original purchase for refurbished Products. Defective parts or a defective Product returned to a Canon USA repair facility or a Canon USA Authorized Service Facility ("ASF"), and proven to be defective upon inspection, will be repaired, exchanged for new or comparable rebuilt parts, or exchanged for a refurbished Product, as determined by the Canon USA repair facility or the ASF. Warranty repair or replacement shall not extend the original warranty period of the Product. This warranty does not cover any accessories, or any consumables, such as paper or ink cartridges, as to which there shall be no warranty or replacement.

This limited warranty shall only apply if the Product is used in conjunction with compatible computer equipment and software. Canon shall have no responsibility for such items except for compatible Canon brand peripheral equipment covered by a separate warranty ("Separate Warranty"). Repairs of such Canon brand peripheral equipment shall be governed by the terms of the Separate Warranty. **Non-Canon brand equipment and software that may be distributed with the Product are sold "as is" and without warranty of any kind by Canon USA, including any implied warranty regarding merchantability or fitness for a particular purpose, and all such warranties are disclaimed. The sole warranty, if any, with respect to such non-Canon brand items is given by the manufacturer or producer thereof.**

This limited warranty covers all defects encountered in normal use of the Product and does not apply in the following cases:

- (a) Loss of or damage to the Product due to abuse, neglect, mishandling, improper packaging by you, alteration, accident, electrical current fluctuations, improper use, failure to follow operating or maintenance instructions, or environmental conditions prescribed in Canon USA's user's manual or other documentation, or services performed by someone other than a Canon USA repair facility or its ASF. Without limiting the foregoing, dropping the Product, scratches, and abrasions will be presumed to have resulted from misuse, abuse or failure to operate the Product as set forth in the operating instructions.
- (b) Use of parts or supplies (other than those sold by Canon USA) that cause damage to the Product or cause abnormally frequent service calls or service problems.
- (c) If the Product has had its serial number or dating defaced, altered or removed.

ANY SYSTEM SOFTWARE (WHETHER FACTORY LOADED ON THE PRODUCT OR CONTAINED ON THE SOFTWARE DISKETTES OR CD-ROM'S ENCLOSED WITH, OR ACCOMPANYING, THE PRODUCT), AND ANY UTILITY SOFTWARE, DISTRIBUTED WITH OR FOR THE PRODUCT, IS SOLD "AS IS" AND WITHOUT WARRANTY BY CANON. THE SOLE WARRANTY WITH RESPECT TO SUCH SOFTWARE IS CONTAINED IN THE SOFTWARE MANUFACTURER'S LICENSE AGREEMENT DISTRIBUTED THEREWITH, INCLUDING ANY LIMITATIONS AND DISCLAIMERS THEREON. PLEASE CONTACT CANON IMMEDIATELY IF YOU HAVE NOT RECEIVED A COPY OF THE SOFTWARE MANUFACTURER'S LICENSE AGREEMENT.

NO IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLIES TO THE PRODUCT AFTER THE APPLICABLE PERIOD OF THE EXPRESS LIMITED WARRANTY STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY, EXCEPT AS MENTIONED ABOVE, GIVEN BY ANY PERSON OR ENTITY WITH RESPECT TO THE PRODUCT SHALL BIND CANON USA, OR ITS ASF. (SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.) CANON USA SHALL NOT BE LIABLE FOR LOSS OF REVENUES OR PROFITS, INCONVENIENCE, EXPENSE FOR SUBSTITUTE EQUIPMENT OR SERVICE, STORAGE CHARGES, LOSS OR CORRUPTION OF DATA, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE, OR INABILITY TO USE THE PRODUCT REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF CANON USA OR ITS ASF HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOR SHALL RECOVERY OF ANY KIND AGAINST CANON USA OR ITS ASF BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK AND LIABILITY FOR LOSS, DAMAGE OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF THE POSSESSION, USE, MISUSE, OR INABILITY TO USE THE PRODUCT SOLD BY CANON USA NOT CAUSED SOLELY AND DIRECTLY BY THE NEGLIGENCE OF CANON USA, OR ITS ASF. (SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU.) THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THE PRODUCT OR THE PERSON FOR WHOM IT WAS PURCHASED AS A GIFT, AND STATES YOUR EXCLUSIVE REMEDY.

Appendix

Canon offers a full range of customer technical support* options:

- For interactive troubleshooting, e-mail technical support, the latest driver downloads and answers to frequently asked questions (www.canontechsupport.com)
- Automated interactive telephone support on most current products 24 hours, 7 days a week (1-800-423-2366)
- 24-hour, Fax-On-Demand System for product specifications and technical information (1-800-526-4345)
- Free live technical support Monday–Saturday (excluding holidays) for products still under warranty (1-757-413-2848)
- The location of the ASF nearest you (1-800-423-2366, select "automated support options")

If the problem cannot be corrected by using one of the above technical support options, repair options are available at the time of your call to the Free live technical support number above or via the website at www.canontechsupport.com

This limited warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

* Support program specifics are subject to change without notice.

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USA

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Index

A

Adjusting Paper Thickness Lever	4
Adjusting Print Quality	15
Advanced Printing	11
Aligning the Print Head	35
An Error Message Appears on the Screen	48

B

Balloon Help	2
BCI-24 Black	38
BCI-24 Color	38
BJ Print Monitor	45
BJ Printer Driver Systems Requirements	55
BJ Status Monitor	42, 45
Borderless (full)	25, 27
Borderless Printing	22, 23, 24, 26, 44
Bubble Jet Direct	11

C

Camera Direct Print	55
Camera Error Message	50
Cancelling Print Jobs	8
Cannot Print Properly from the Digital Camera	50
CANON LIMITED WARRANTY - (USA Only)	59
Chooser	48
Cleaning	31, 32

D

Deep Cleaning	33, 34
Digital camera	11
Digital video camcorder	11
Driver	
saving setting	20
settings	8, 10
uninstalling	48

E

Easy-PhotoPrint	23, 24, 26
Easy-WebPrint	23
Examining the Nozzle Check Pattern	30
Exif 2.2	23
Exif Print	23

G

Glossy Photo Paper	6
--------------------------	---

H

Handling Error Messages	47
-------------------------------	----

Help button	2
High Resolution Paper	6

I

ImageBrowser	23
Ink Counter Reset	40
Ink Tank	38
Installing the Printer Driver when using Mac OS 9.x	52

L

Load Limit Mark	4
Loading Paper	3
Low Ink Warning	41
Low Ink Warning Setting	49

M

Matte Photo Paper	6
Media	
speciality	5
to avoid	3
Media Type	6, 8, 9
Media Types for Digital Camera	11
Media Types Suitable for Borderless Printing	24, 26

N

Nozzle Check	29, 30
Nozzle Check Pattern	
examining	30
printing	29

O

Opening the Printer Properties Dialog Box Directly from the Start Menu	14
Opening the Printer Properties Dialog Box from Your Application Program	14

P

Page Setup	9, 45
Page Setup dialog box	45
Paper feed roller	46
Paper Jams	46
Paper Rest Load Limit	6
Paper Size	9
Paper thickness lever	4
Paper Thickness Lever Position	6
Photo Noise Reduction	19
Photo Optimizer PRO	17
Photo Paper Plus Glossy	6
Photo Paper Pro	6

Index

Photo Paper Pro Perforated	6
PhotoRecord	23
PhotoStitch	23
POWER button	2
POWER lamp	2
POWER/ERROR lamp	47
Print dialog box	7, 9, 44
Print Head Alignment	35, 37
Print Head Cleaning	31
Print Head Deep Cleaning	33
print head holder	38
Print Media to Avoid	3
Print Mode	10
Print Quality	8, 10, 15, 44
Printer Driver Setting for Media Type	6
Printer Properties dialog box	7, 14, 29, 44
Printer Utility dialog box	30
Printing Borderless Photographs	24, 26
Printing from a Digital Camera	12
Printing Photographs Directly from a Digital Camera ...	11
Printing the Nozzle Check Pattern	29

R

Recalling Driver Settings	20
Regulatory Information	58
Replacing an Ink Tank	28, 38
Resetting the Ink Counter	40
RESUME/CANCEL button	8, 10

S

Safety Precautions	56
Saving Driver Setting	20
Speciality Media	6
Specifications	54

T

Technical support	60
Transparencies	6
Troubleshooting	42
T-Shirt Transfers	6
Turning on the Printer	2

U

Uninstalling the printer driver	48
Using Speciality Media	5

V

Vivid Photo	18
-------------------	----

W

Warranty	59
When Printing Becomes Faint or Colors are Incorrect ...	28

Z

ZoomBrowser EX	23
----------------------	----