

Canon



PIXMA iP90



Frequently Asked Questions



U s e r ' s G u i d e

MP-0304-V1.00

[Table of Contents](#)

[How to Use This Manual](#)

[Safety Precautions](#)

▶ [Printer Parts and Their Function](#)

▶ [Further Printing Techniques](#)

▶ [Printing Media](#)

▶ [Checking the Status of the Printer](#)

▶ [Routine Maintenance](#)

▶ [Using the Canon iP90 Setup Utility](#)

▶ [Troubleshooting](#)

▶ [Appendix](#)

[Index](#)

FAQS

- [Printing is Blurred/Colors are Wrong](#)
- [Printer Moves But The Ink Is Not Ejected](#)
- [Cannot Install Printer Driver](#)
- [Printing Does Not Start](#)
- [The POWER Lamp Flashes Orange](#)
- [Error Writing/Output to USBnnn or MPUSBPRNnn](#)
- [Colors are Unclear](#)
- [Paper Jams](#)
- [Paper Does Not Feed Properly](#)
- [White Streaks](#)

Table of Contents

How to Use This Manual

How to Read This Manual

Safety Precautions

Printer Parts and Their Function

Front View

Operation Panel

Rear View

Inside the Printer

Further Printing Techniques

Printing Photographs



Printer Driver Functions



Printer Driver Functions



BJ Printer Utility

Printing Media

Compatible Media Types

Photo Paper Pro PR-101

Photo Paper Plus Glossy PP-101

Photo Paper Plus Semi-Gloss SG-101

Matte Photo Paper MP-101

Glossy Photo Paper GP-401

High Resolution Paper HR-101N

Photo Paper Plus Double Sided PP-101D

T-Shirt Transfers TR-301

Transparencies CF-102

Photo Stickers PS-101

Envelopes

Checking the Status of the Printer



BJ Status Monitor Functions



Printer Setup Utility (or Print Center)

Routine Maintenance

When Printing Becomes Faint or Colors are Incorrect

Printing the Nozzle Check Pattern

Print Head Cleaning

Print Head Deep Cleaning

Aligning the Print Head

Replacing an Ink Tank

Using the Canon iP90 Setup Utility

Function of the Canon iP90 Setup Utility

Starting the Canon iP90 Setup Utility



Setup Utility Functions



Setup Utility Functions

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 Displayed on the Screen

Cannot Print Properly from the Digital Camera



Cannot Print Properly through Infrared Communication



Problems Relating to Windows

Appendix

[Printing Area](#)



[Deleting Selected Printers](#)

[Uninstalling Printer Drivers](#)

[Uninstalling the On-screen Manual](#)

[Cleaning the Inside of the Printer](#)

[Transporting Printer](#)

[Traveling Abroad with the Printer](#)

[Specifications](#)

[Index](#)

How to Use This Manual

This manual is written in HTML (Hyper Text Markup Language), the language used to display texts and images on Worldwide Web Pages.

Various Web browsers are available for seeing HTML view and therefore the same text or image may appear different depending on the browser you use. This manual has been prepared on the assumption that it would be displayed and read under the following conditions:

Windows

- Web browser: Microsoft® Internet Explorer 5.0 or later.
- Web browser screen: Full screen
- Resolution of display (Desktop): 800 x 600 pixels or above
- Color amount of display: 16 bit or more

Macintosh

- Web browser: Microsoft® Internet Explorer 5.0 or later, Safari 1.0 or later.
- Web browser screen: Full screen
- Resolution of display (Desktop): 800 x 600 pixels or above
- Color amount of display: 32,000 or more

This manual refers to Windows XP Service Pack 2 (hereafter, called Windows XP SP2) and Mac OS X v.10.3.x operation. The operations may vary slightly depending on your operating system.



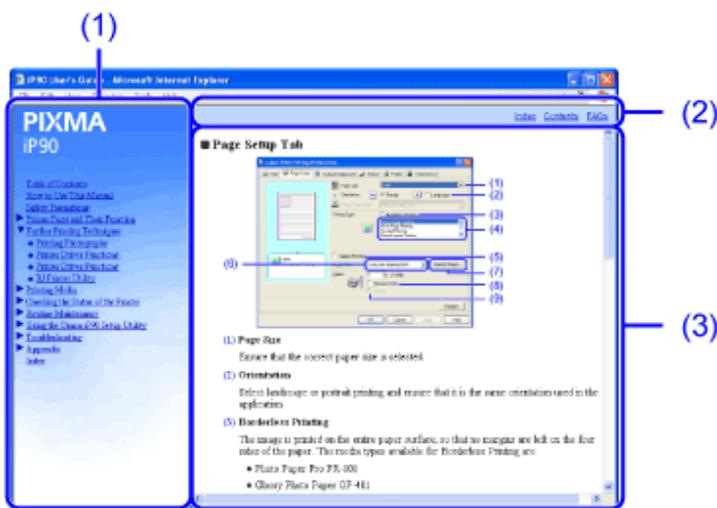
Note The Bluetooth unit is not available to some regions due to the law of the countries or the regulations. For details, contact your local Canon service representative.

How to Read This Manual

Let's take a look at how to read this manual. For instructions on how to use the browser, refer to the User's Guide or Help topics of the browser you use.

■ Manual Configuration

This manual consists of three screens: Contents, Menu, and Description screen.



- (1) Contents screen
- (2) Menu screen
- (3) Description screen

■ Using The Contents Screen

Clicking a title on the Contents screen will display the associated title page on the Description screen.

The title with the ▶ mark is displayed in two layers. Clicking the ▶ button will change the mark to the ▼ and the titles in the lower layer displayed.



■ Using The Menu Screen

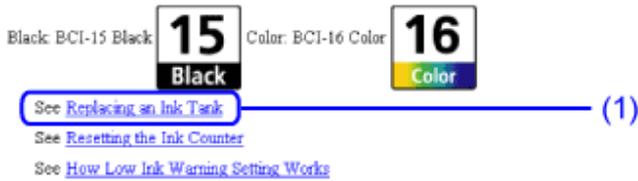


- (1) Index: Clicking this option will display a list of indexes in the Description screen.
- (2) Contents: Clicking this option will display a complete contents of titles of this manual.
- (3) FAQs: Clicking this option will display frequently asked questions.

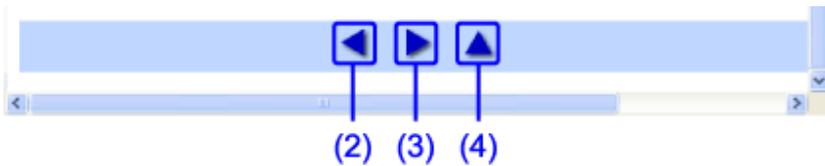
■ Using the Description Screen

Replacing an Ink Tank

If the print result is not improved after maintenance such as Print Head cleaning, an ink tank runs out of ink. Replace the ink tank with a new one. 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.



(1) Clicking the character string with a blue underline allows you to jump to the associated page.



(2)  : Clicking this button allows you to jump to the previous page.

(3)  : Clicking this button allows you to jump to the next page.

(4)  : Clicking this button allows you to jump to the beginning of this page.

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Safety Precautions

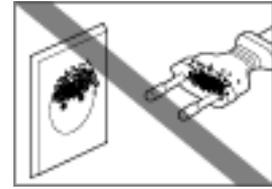
Please read the safety warnings and cautions provided in this manual to ensure that you use your printer safely. Do not attempt to use printer in any way not described in this manual.

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.

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 the universal AC adapter that came with the printer (CANON, K30244). Do not use it for other products.

Cleaning the printer

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.

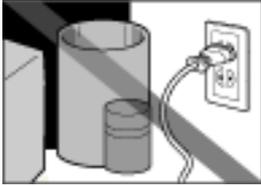
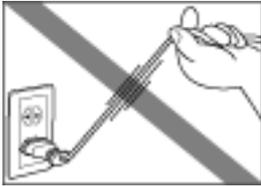
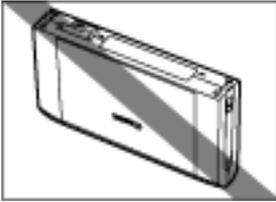
Always unplug the printer from the power outlet before cleaning the printer.

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.

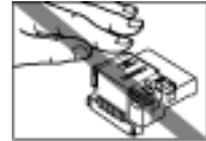
Choosing a location	Do not install the printer in a location that is unstable or subject to excessive vibration.
	Do not install the printer in locations that are very humid or dusty, in direct sunlight, outdoors, or close to a heating source. To avoid the risk of fire or electric shocks, install the 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.

<p>Power supply</p>	<p>Ensure that the area around the power outlet is kept clear at all times so you can easily unplug the power cord if necessary.</p> 
	<p>Never remove the plug by pulling on the cord.</p> 
	<p>Do not use an extension lead/cord.</p> 
<p>Working around the printer</p>	<p>Never put your hands or fingers in the printer while it is printing.</p>
	<p>Do not carry or store the printer with the round side down. A failure can result.</p> 
	<p>Do not place any object on the printer.</p>
	<p>Do not place metal objects (paper clips, staples, etc.) or containers of flammable solvents (alcohol, thinners, etc.) on top of the printer.</p>
	<p>If any foreign object (metal or liquid) fall into the printer, unplug the power cord and call for service.</p>
<p>Print heads and ink tanks</p>	<p>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.</p>

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.

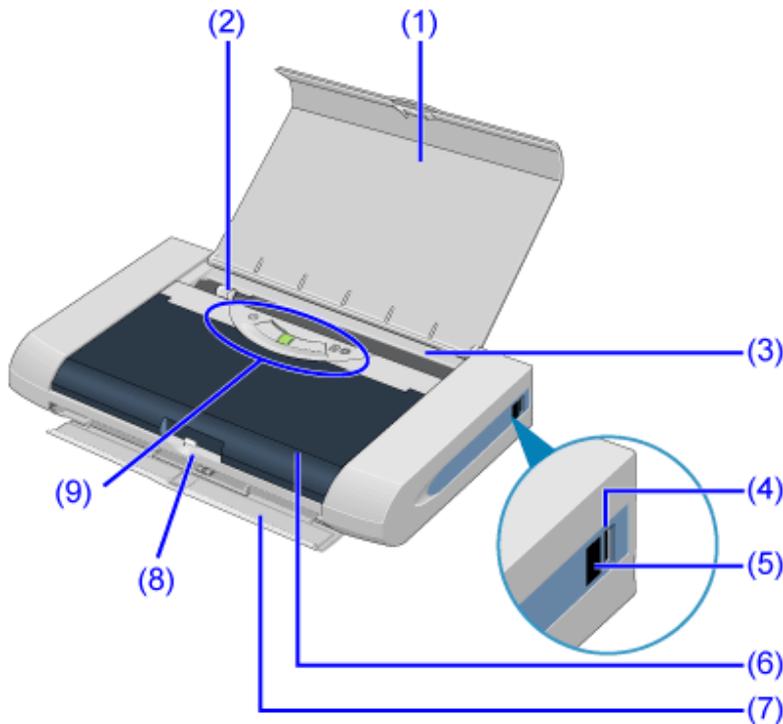
Universal AC Adapter

When you pack the universal AC adapter for travel or storage, never wrap the cord around the body of AC adapter to prevent the cord from splitting or separating from the body of the AC adapter and causing a short circuit.



Printer Parts and Their Function

Front View



(1) Paper Support

Open before printing to support paper.

(2) Paper Guide

When loading paper, ensure the left edge just touches this guide. To move the Paper Guide, slide it in the appropriate direction.

(3) Auto Sheet Feeder

Load paper here. Paper feeds automatically, one sheet at a time.

(4) Direct Print Port

Connects the printer to a Canon digital camera/PictBridge compliant camera.

(5) IrDA Interface Port

Connects the printer to a computer through a wireless IrDA connection.

(6) Print Head Cover

Open to replace the ink tanks.

(7) Paper Output Slot Cover

Printed paper ejects here.

(8) Paper Thickness Lever

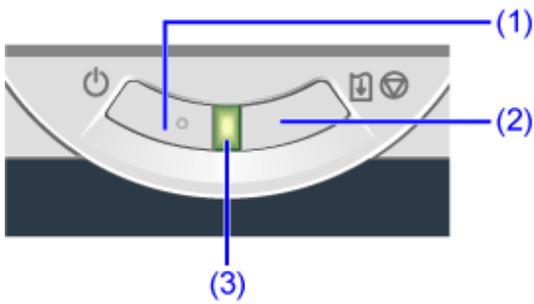
Adjusts the gap between the Print Head and surface of the printing paper. Move the lever to the correct position for the media in use.

(9) Operation Panel

See [Operation Panel](#)



Operation Panel



(1) POWER Button

Press to turn the printer on or off.

(2) RESUME/CANCEL Button

Press to resume printing once an error has been resolved. The printer will then initialize ready for printing.

Also, to cancel printing in progress, press this button.

(3) POWER Lamp

Off : the printer is turned off.

Green : the printer is ready to print.

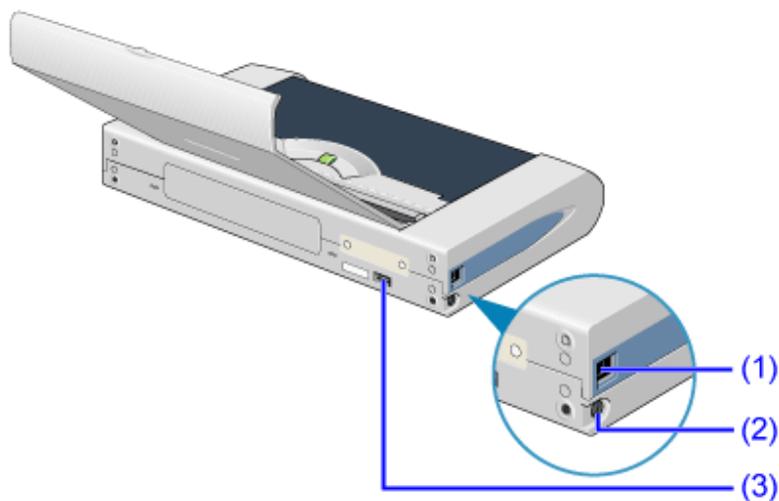
Flashing green : the printer is preparing to print, or is currently printing.

Flashing orange : an error has occurred and the printer is not ready to print.

Flashing orange and green alternately : an error has occurred that may require a service call.



Rear View



(1) USB Port

Connects the printer to a computer through a USB interface.

(2) AC Adapter Connector

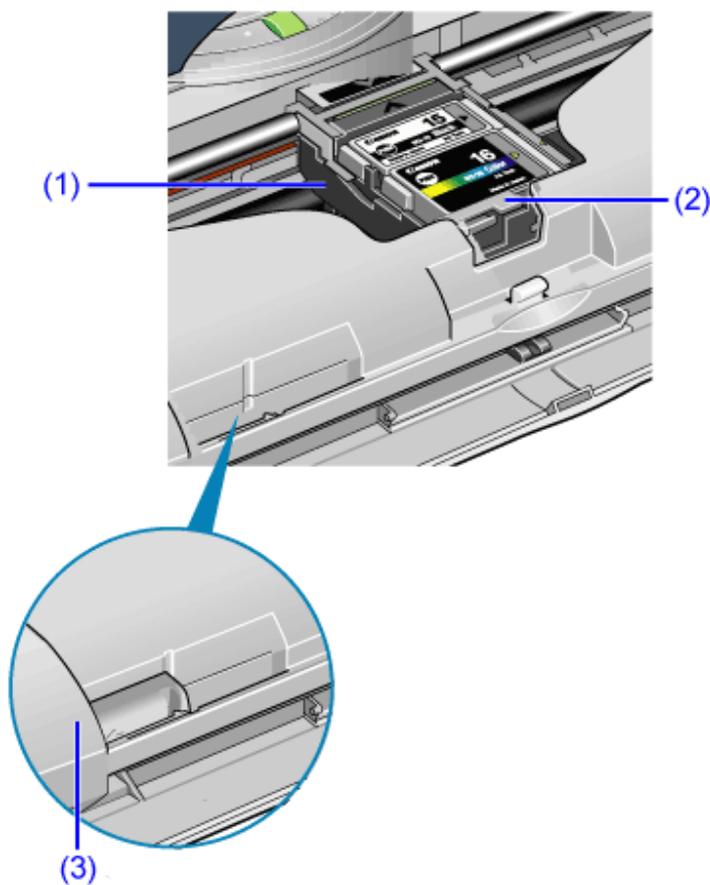
Provides connection point for the Universal AC Adapter plug.

(3) Charger Connector

Connects the optional battery. For how to connect and use this connector, refer to the manual supplied with the battery.



Inside the Printer



(1) Print Head Holder

Install the Print Head here.

(2) Print Head Lock Lever

Locks the Print Head into the holder.

Once the Print Head is installed, do not touch this lever.

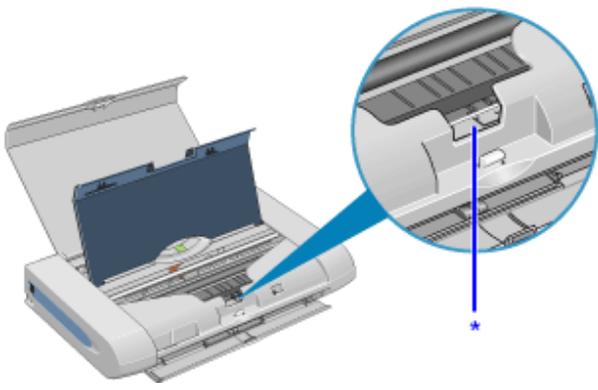
(3) Bluetooth unit connector

Connect the optional Bluetooth unit here. This option is a unit that allows you to print wireless from a Bluetooth device.

For further information, refer to the *Bluetooth Unit BU-10 User's Guide*.

Important

- The Bluetooth unit may not be available in some regions or countries due to the laws or regulations applicable to those areas. For details, contact a Canon service representative.
- Never touch the transparent tape. The printer may be faulty and unable to print data.



*Transparent tape



Further Printing Techniques

Printing Photographs

Using Easy-PhotoPrint allows you to make borderless (full page) prints from images you took with a digital camera.

Easy-PhotoPrint supports Exif Print.

The image captured with an Exif Print-compliant digital camera can be optimized using data, such as camera settings (white balance, exposure time), etc. stored at the time of shooting, yielding extremely high-quality prints.

- The photo applications are included in the *Setup Software & User's Guide CD-ROM* that comes with the printer. You can install the Easy-PhotoPrint program. Just go to your setup guide and follow the instructions.
- This chapter describes the steps used to print borderless photos with Easy-PhotoPrint under Windows XP. The steps used under Macintosh are basically the same. You can edit images taken with a digital camera by using the Red-Eye Correction and Digital Face Smoothing functions, and then print them with Easy-PhotoPrint.
- Easy-PhotoPrint can handle only JPEG files (file name extension: .jpg and .jpeg).

Note Media Types Suitable for Borderless Printing

- Photo Paper Plus Glossy (Letter/A4, 4" x 6" / 101.6 x 152.4 mm, 5" x 7" / 127.0 x 177.8 mm)
- Photo Paper Plus Semi-Gloss (Letter/A4, 4" x 6" / 101.6 x 152.4 mm)
- Photo Paper Plus Double Sided (Letter/A4, 5" x 7" / 127.0 x 177.8 mm)
- Photo Paper Pro (Letter/A4, 4" x 6" / 101.6 x 152.4 mm)
- Matte PhotoPaper (Letter/A4)
- Glossy Photo Paper (Letter/A4, 4" x 6" / 101.6 x 152.4 mm, Credit Card)

■ Printing Photographs

1 Start Easy-PhotoPrint.

(1) Store the photographs you took with your digital camera in a 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**.

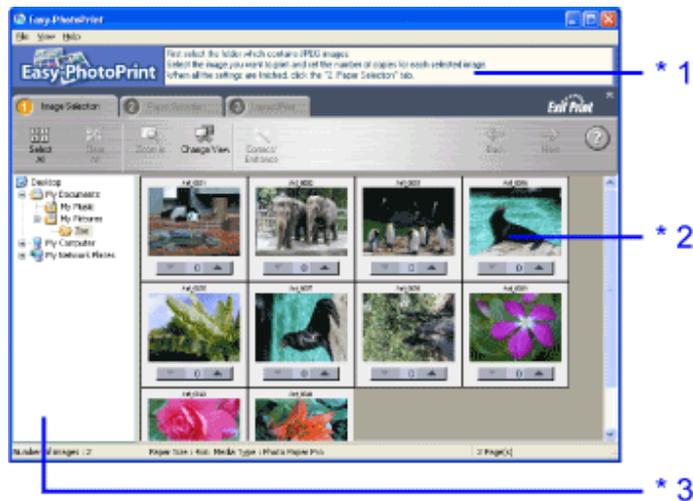
Double-click the hard disk icon, the **Applications** folder, the **Easy-PhotoPrint** folder, and then double-click the **Easy-PhotoPrint** icon.

The  **Image Selection** sheet is displayed.

2 Select photographs.

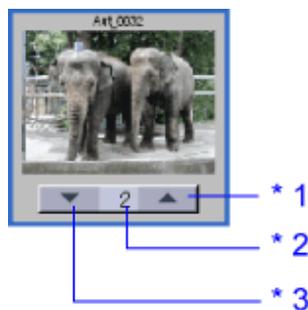
(1) Select the folder containing the photograph you want to print.

All photographs in the selected folder are displayed.



- *1 Guidance
- *2 Thumbnail
- *3 Folder window

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



- *1 Increases the number of copies.
- *2 Displays the specified number of copies.
- *3 Decreases the number of copies.

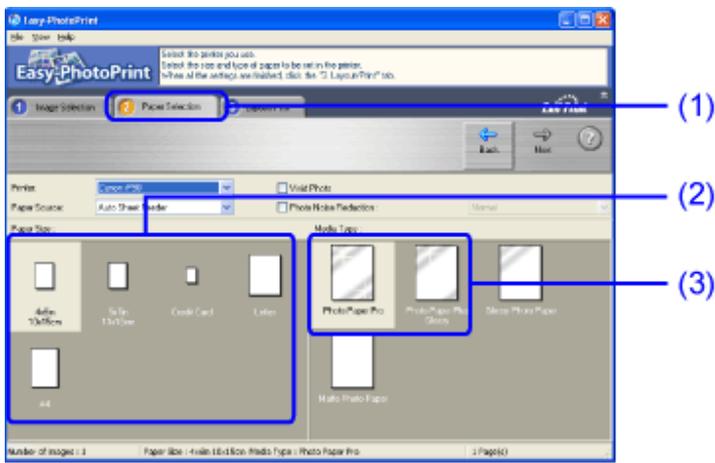


Note

Clicking the **Correct/Enhance** button on the **1 Image Selection** tab allows you to edit and enhance the photos to be printed. For more information, refer to the *Photo Application Guide*.

3 Select the paper.

- (1) Click the **2 Paper Selection** tab.
- (2) Select the size of the paper you use from **Paper Size**.
- (3) Select the type of the paper you use from **Media Type**.



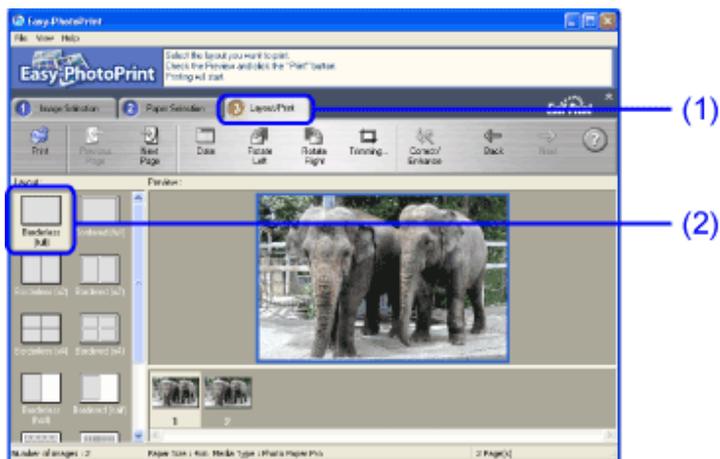
4 Select the layout.

- (1) Click the **3** **Layout/Print** tab.
- (2) Select **Borderless (full)**.



Note

Clicking the **Correct/Enhance** button on the **3** **Layout/Print** tab allows you to edit and enhance the photos to be printed. For more information, refer to the *Photo Application Guide*.



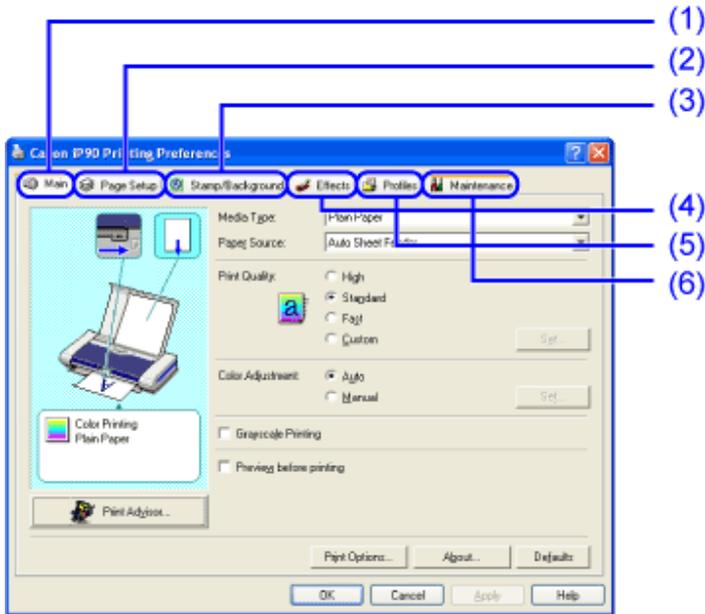
- (3) Load the media specified in the **2** **Paper Selection** tab.
- (4) **Windows**
Click **Print**.

Macintosh

Click **Print**. When the confirmation message is displayed, click **OK**. Click **Print** in the **Print** dialog box.



Printer Driver Functions



- (1) See [Main Tab](#)
- (2) See [Page Setup Tab](#)
- (3) See [Stamp/Background Tab](#)
- (4) See [Effects Tab](#)
- (5) See [Profiles Tab](#)
- (6) See [Maintenance Tab](#)



Note

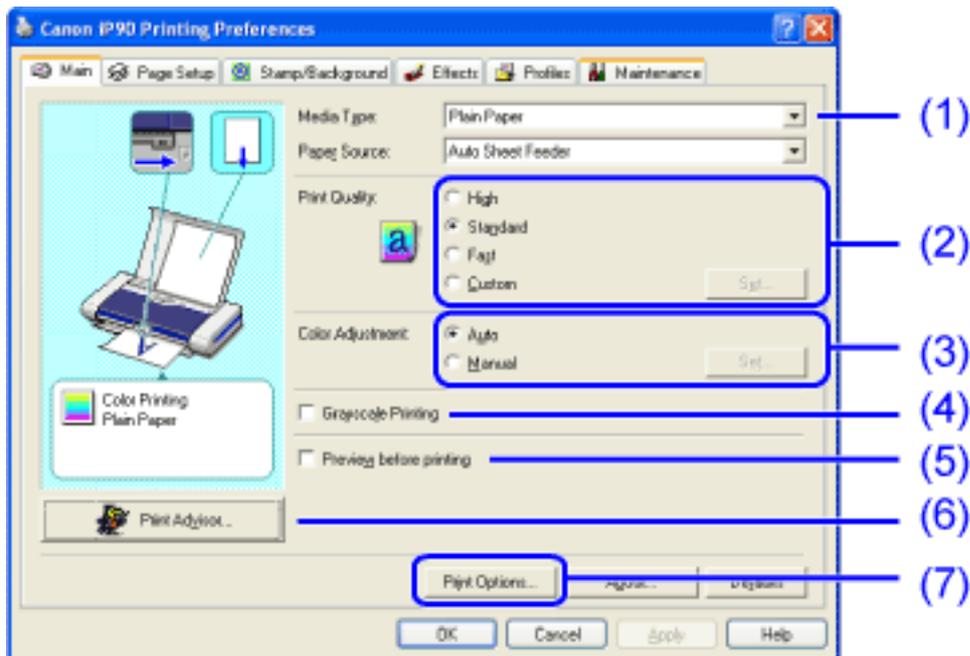
- The screens in this section refer to Windows XP SP2 operation. The equivalent screens may vary slightly depending on your operating system.
- To see a description of any item in the Printer Properties dialog box, click the ? mark then click the desired item. To see a description of the operating procedures, click **Help**.

In Windows XP or Windows 2000

If the button does not appear, click **Start** and select **All Programs** (or **Programs**), **Canon iP90** and **Guide**.



■ Main Tab



(1) Media Type

Ensure that this setting matches the media loaded in the printer.

(2) Print Quality

Select the Print Quality you require from the different options. To select a custom Print Quality, select **Custom** and click **Set**.

(3) Color Adjustment

Select the method of color adjustment. To make detailed color adjustments, select **Manual**, then click **Set**.

(4) Grayscale Printing

Select to print a grayscale version (black and white) of a color document.

(5) Preview before printing

Select to check the layout before printing.

(6) Print Advisor

Click to start the Print Advisor.

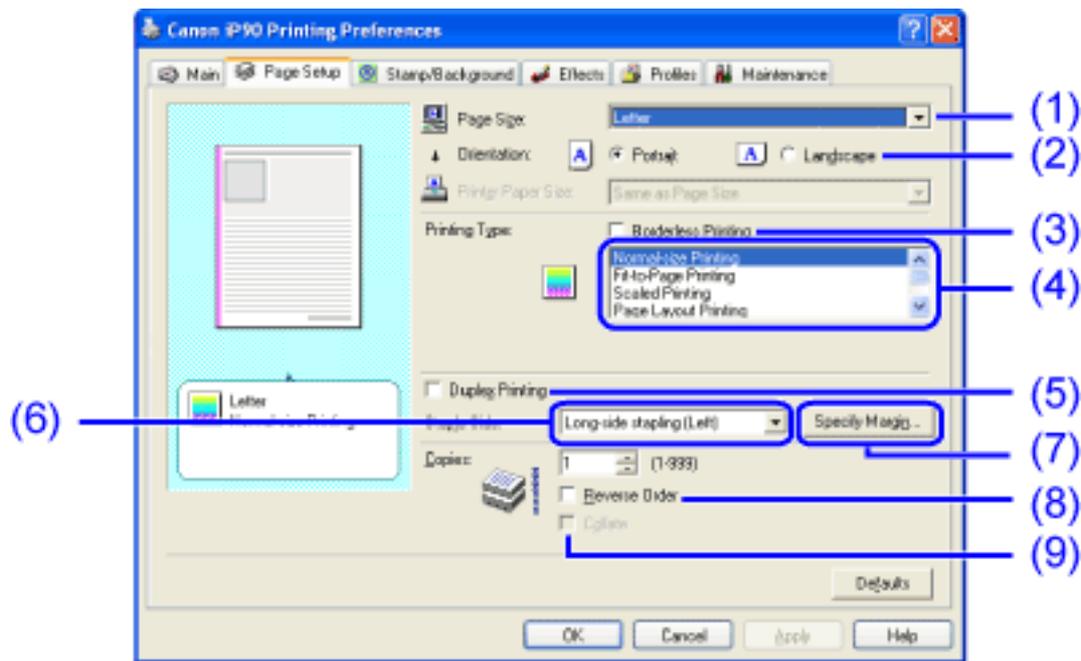
The Print Advisor simplifies configuration of the printer driver. By having the user answer a series of questions, the Print Advisor automatically configures the printer driver settings.

(7) Print Options

When the size of the print data is adjusted automatically in accordance with which port is to be used, the print time can be shortened. This option is effective when IrDA and optional Bluetooth communications are used and not a USB connection. Moreover, you can select the option for spool data size to reduce print size.



■ Page Setup Tab



(1) Page Size

Ensure that the correct paper size is selected.

(2) Orientation

Select landscape or portrait printing and ensure that it is the same orientation used in the application.

(3) Borderless Printing

The image is printed on the entire paper surface, so that no margins are left on the four sides of the paper. The media types available for Borderless Printing are

- Photo Paper Pro PR-101
- Glossy Photo Paper GP-401
- Photo Paper Plus Glossy PP-101
- Photo Paper Plus Semi-Gloss SG-101
- Matte Photo Paper MP-101
- Photo Paper Plus Double Sided PP-101D

For all other media types, the print quality may decrease.

If you check the **Borderless Printing** check box, you can specify the **Amount of Extension**.

Amount of Extension: When you select Borderless Printing, the

sections that extend beyond the paper are not printed because the image is enlarged to a size slightly larger than the paper size. You can use a slide bar to adjust how much the image extends beyond the paper. Usually, you need not to adjust this setting. If you move the slide bar to the left to reduce the extension amount, a border may appear.

(4) Printing Type

Select a printing method from the following.

Normal-size Printing: The document is printed according to the original dimensions. This setting is usually selected by default at factory.

Fit-to-Page Printing: The document is automatically resized and printed to fit into a specified page size.

Scaled Printing: The document is resized when printed. When this is selected, you can specify **Printer Paper Size** and **Scaling**.

Page Layout Printing: Pages are reduced and printed so that multiple document pages fit on each printed page.

Poster Printing: This enlarges and splits the print image across several sheets of paper. The printed sheets can then be assembled to make a large poster.

Booklet Printing: A multiple-page document is printed so that four pages of the document fit on each printed page. The print order is set automatically. After the document is printed, you can create a booklet by folding and saddle-stitching the document.

(5) Duplex Printing

The document is printed on both sides of the paper. After printing one side, turn the ejected page over, and print on the other side.

(6) Staple Side

Select a staple side for binding.

(7) Specify Margin

Specify the staple margin.

(8) Reverse Order

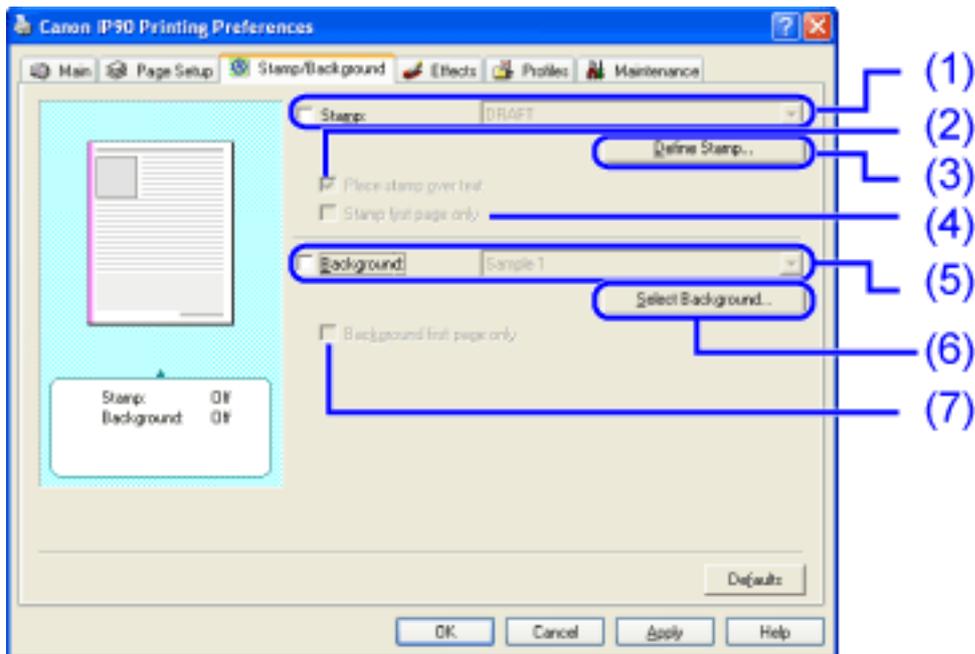
Prints the document starting with the last page first.

(9) Collate

Select to print multiple copies of the document one copy at a time.



■ Stamp/Background Tab



(1) Stamp

Select the check box and choose the stamp.

(2) Place stamp over text

When **Stamp** is selected, you can select this check box. When selected, the stamp is printed over the text.

(3) Define Stamp

This allows you to create new stamps, or modify details of a selected stamp.

(4) Stamp first page only

When **Stamp** is selected, you can select this check box. When selected, the stamp is printed only on the first page.

(5) Background

Select the check box and choose the background image you wish to use.

(6) Select Background

This allows you to register a new background, or modify details of a selected background.

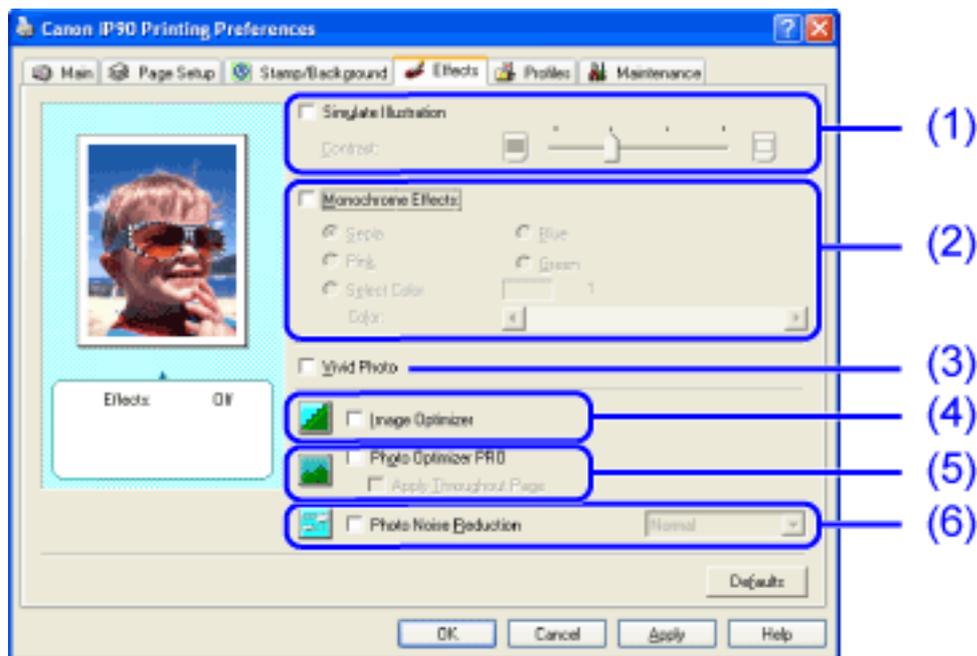
(7) Background first page only

When **Background** is selected, you can select this check box. When

selected, the background image is printed only on the first page.



■ Effects Tab



(1) Simulate Illustration

This function manipulates color image data with certain effects. Select the check box and adjust the brightness of the image with the **Contrast** slide bar.

(2) Monochrome Effects

Prints a color image in a single color. Select the check box and choose a color or use a custom color using **Select Color**.

(3) Vivid Photo

By using this function, you can reproduce breathtaking sceneries, where colors, especially blues and greens, appear even more vibrant. A major feature of this function is its ability to create vivid backgrounds of fields, trees, oceans, and skies, while maintaining the natural skin tones of people that appear in the images.

(4) Image Optimizer

Improves the contours and smoothes jaggedness that occur when photographic or graphic image data is enlarged within an application.

(5) Photo Optimizer PRO

Optimizes the color of images taken from a digital camera or scanner. It is especially effective for images affected by color imbalance and over- or under exposure.

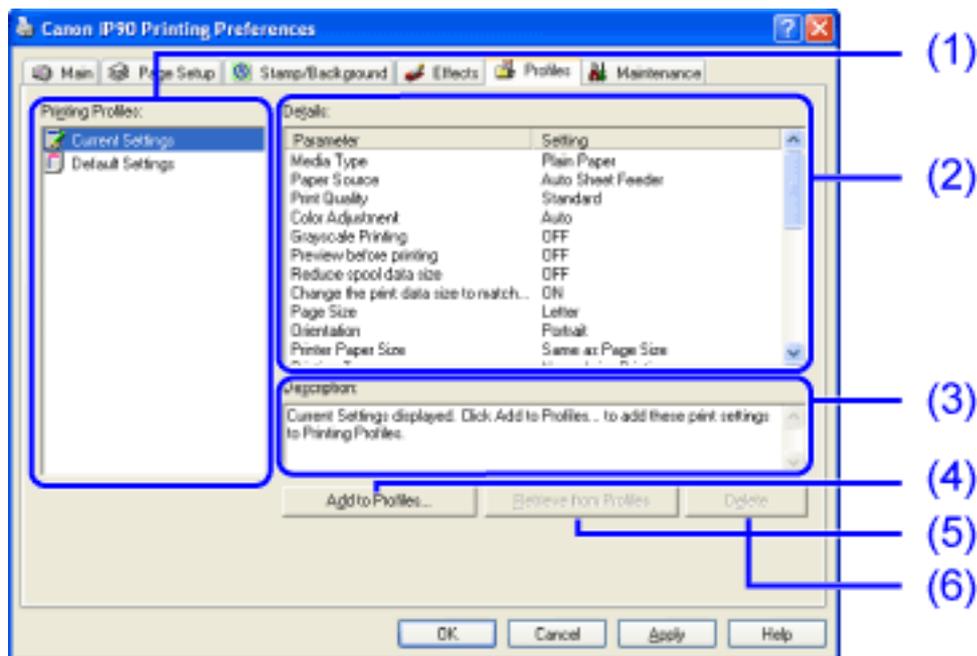
When printing several images on one page, optimization is usually applied to each image according to its requirements. However, if the image data has been manipulated using clipping, rotation or other such operations, group optimization of all images on that page is recommended. In such cases, select the **Apply Throughout Page** check box.

(6) Photo Noise Reduction

When printing images recorded with your digital cameras, blue skies may be dappled or dark appearing rough. You can reduce this effect with the Photo Noise Reduction function. Using this function with photographs other than those taken with a digital camera may cause images to be disturbed.



■ Profiles Tab



(1) Printing Profiles

This list displays the printing settings currently registered in the **Profiles** tab.

The **Current Settings** profile contains the settings currently specified in the **Main** , **Page Setup** , **Stamp/Background** and **Effects** tabs. The **Default Settings** profile contains the factory default settings.

(2) Details

Displays all the printer settings selected in **Printing Profiles**.

(3) Description

Displays a description of the printer settings selected in **Printing Profiles**. You can enter a description when saving the printer settings.

(4) Add to Profiles

Click to save the settings currently specified in the **Main** , **Page Setup** , **Stamp/Background** and **Effects** tabs. Select **Current Settings** in the **Printing Profiles** list then click this button. The **Add to Profiles** dialog box appears.

(5) Retrieve from Profiles

Click to activate registered printer settings. The contents of the **Main** , **Page Setup** , **Stamp/Background** and **Effects** tabs are changed by selecting the printer settings in **Printing Profiles** and clicking this

button.

This button is disabled when **Current Settings** is selected.

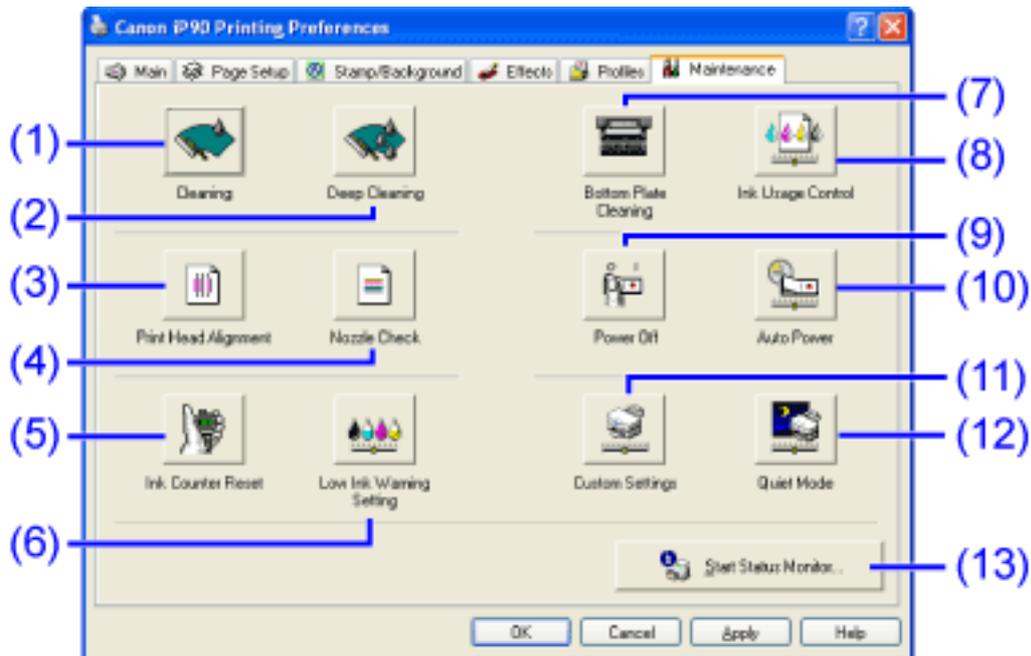
(6) Delete

Click to delete unwanted printer settings. Select the unwanted item in the **Printing Profiles** list and click **Delete**.

Current Settings and **Default Settings** cannot be deleted.



■ Maintenance Tab



(1) Cleaning

Perform Print Head Cleaning to unclog the Print Head Nozzles.

Select this cleaning when the print result is unsatisfactory.

See [Print Head Cleaning](#)

(2) Deep Cleaning

Perform a more thorough Print Head Cleaning to unclog the Print Head Nozzles.

Use this function only if **Cleaning** has not improved the print quality.

See [Print Head Deep Cleaning](#)

(3) Print Head Alignment

Aligns the Print Head.

Print Head Alignment is required when the print result is unsatisfactory (e.g., displaced ruled lines).

See [Aligning the Print Head](#)

(4) Nozzle Check

Prints a nozzle check pattern to ensure that the Print Head Nozzles are ejecting ink properly.

See [Printing the Nozzle Check Pattern](#)

(5) Ink Counter Reset

Resets ink counter to an initial value. Click this if you did not select **Yes** when a confirmation message of ink tank replacement is displayed after installing a new ink tank. Select the ink tank you have just installed and click **Execute**.

(6) Low Ink Warning Setting

Click to set whether to display alerts, such as **Display low ink warning** or **Display a confirmation message of ink tank replacement**. Modify the settings, and click **Send**.

When **Display a confirmation message of ink tank replacement** is selected, a message asking whether or not the ink tank has been replaced is automatically displayed whenever an ink tank is replaced.

(7) Bottom Plate Cleaning

Click to clean the Bottom Plate smudged during duplex printing.

See [Cleaning the Inside of the Printer](#)

(8) Ink Usage Control

You can be set as the mode which saves black ink. Moreover, when a black ink tank is empty and a new tank is not immediately available, you can change to the mode which can be printed only in color ink as an emergency measure.

(9) Power Off

Click to turn the printer off.

(10) Auto Power

This allows you to turn the printer off when no data is sent to the printer for a certain period of time.

(11) Custom Settings

Click to modify the printer mode. Change the settings in the **Custom Setting** dialog box and then click **Send** to change the printer mode.

(12) Quiet Mode

Set **Quiet Mode** to reduce the printing noise. You can set the times during which the Quiet Mode is to be used.

However, the effect may be small, depending on the Print Quality setting. If you use Quiet Mode, the print speed may be slower than normal.

(13) Start Status Monitor

Click to start the BJ Status Monitor, to check the printer status and the progress of printing jobs.



Print Head Cleaning

If missing lines or white stripes are found in the printed nozzle check pattern, perform Print Head cleaning to unclog the Print Head Nozzles. Cleaning the Print Head consumes ink, so perform Print Head cleaning only when necessary.

 **Note** A Print Head can also be cleaned by pressing the **RESUME/CANCEL** button on the printer.

1. Ensure that the printer is turned on.
2. Hold down the **RESUME/CANCEL** button until the **POWER** lamp flashes once, and then release it.

Windows

If you pressed the Cleaning button on the Examining the Nozzle Check Pattern screen displayed after nozzle check pattern printing, start the Print Head cleaning procedure from 3-(3).

1 Ensure that the printer is turned on.

2 Open the Printer Properties dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

3 Start Print Head Cleaning.

- (1) Click the **Maintenance** tab.
- (2) Click **Cleaning**.
- (3) Select the Print Head to be cleaned, and then click **Execute**.

 **Note** Click the **Initial Check Items** button. Confirmation message for Print Head Cleaning is displayed.

- (4) When the confirmation message is displayed, click **OK**.
Print Head cleaning starts when the **POWER** lamp starts blinking.

Important Do not perform any other operations until the Print Head cleaning finishes. This takes about 60 seconds.

4 Check the Print Head condition.

- (1) Click **Print Check Pattern** in the **Nozzle Check** dialog appeared after the cleaning are done. When the confirmation message is displayed, click **OK**.
A nozzle check pattern will be printed.
Do not perform any operation until the printing of the nozzle check pattern is completed.
- (2) Observe the printed nozzle check pattern to check the Print Head condition.
For details, refer to [Examining the Nozzle Check Pattern](#).

(3) If the problem persists after you performed Print Head normal cleaning three times, execute Print Head deep cleaning.

For details, refer to [Print Head Deep Cleaning](#).

Macintosh

If you pressed the Cleaning button on the Examining the Nozzle Check Pattern screen displayed after a nozzle check pattern printing, start the Print Head Cleaning procedure from 3-(3).

1 Ensure that the printer is turned on.

2 Open the BJ Printer Utility dialog box.

 **Note** The BJ Printer Utility cannot be used with Bluetooth communication.

(1) Double-click the hard disk icon where the printer driver was installed, the **Applications** folder, and then the **Utilities** folder.

(2) Double-click the **Printer Setup Utility** icon.

If you are using an OS other than Mac OS X v.10.3, double-click the **Print Center** icon.

(3) Select **iP90** from the **Name** list and click **Utility** or **Configure**.

(4) Select **iP90** from the **Product** list and click **Maintenance**.

3 Start Print Head Cleaning.

(1) Select **Cleaning** from the pop-up menu.

(2) Click **Cleaning**.

(3) Select the Print Head to be cleaned, and then click **OK**.

Print Head cleaning starts when the **POWER** lamp starts blinking.

 **Note** Click the **Initial Check Items** button. Confirmation message for Print Head Cleaning is displayed.

Important Do not perform any other operations until Print Head cleaning finishes. This takes about 60 seconds.

4 Check the Print Head condition.

(1) Click **Print Check Pattern** in the dialog appeared after cleaning are done.

A nozzle check pattern will be printed.

Do not perform any operation until the printing of the nozzle check pattern is completed.

(2) Observe the printed nozzle check pattern to check the Print Head condition.

For details, refer to [Examining the Nozzle Check Pattern](#).

(3) If the problem persists after you performed the Print Head normal cleaning three times, execute Print Head deep cleaning.

For details, refer to [Print Head Deep Cleaning](#).



Opening the Printer Properties Dialog Box

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 Service Pack 2 operation.

The operations may vary slightly depending on your operating system.

■ Opening the Printer Properties Dialog Box from your Application Program

The operations may vary slightly depending on your application program. This section describes only a general procedure for opening the Printer Properties dialog box.

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 iP90 is selected. Then click Preferences (or Properties).

The Printer Properties dialog box opens.

 **Note** 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 further details, see the user's manual for your application.

■ 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 further 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-Windows XP users, click **Start** , select **Settings** , and then **Printers**.

2 Select the Canon iP90 icon.

3 Open the **File** menu and select **Printing Preferences (or Properties)**.

The Printer Properties dialog box opens.



Printing the Nozzle Check Pattern

Print the nozzle check pattern to determine whether the ink ejects properly from the Print Head Nozzles. Use this function when printed results are blurred or a color is incorrect.

 **Note** The nozzle check pattern can also be printed by pressing the **RESUME/CANCEL** button on the printer.

1. Ensure that the printer is turned on, and then load a sheet of A4 or Letter-sized plain paper.
2. Hold down the **RESUME/CANCEL** button until the **POWER** lamp flashes twice, and then release it immediately.

■ Printing the Nozzle Check Pattern

Windows

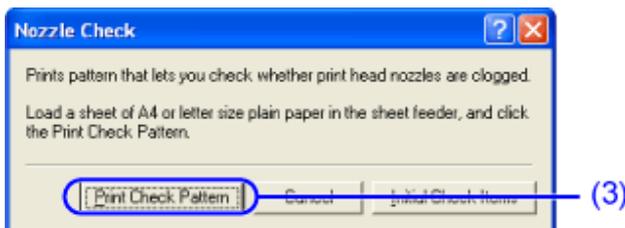
1 With the printer on, load a sheet of A4 or Letter-sized plain paper in the Auto Sheet Feeder.

2 Open the Printer Properties dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

3 Print the Nozzle Check Pattern.

- (1) Click the **Maintenance** tab.
- (2) Click **Nozzle Check**.



(3) Click **Print Check Pattern**.

 **Note** Click the **Initial Check Items** button. A confirmation message for printing the nozzle check pattern is displayed.

- (4) When the confirmation message is displayed, click **OK**.
- (5) Confirm the nozzle check pattern.

See [Examining the Nozzle Check Pattern](#)

Macintosh

1 With the printer on, load a sheet of A4 or Letter-sized plain paper in the Auto Sheet Feeder.

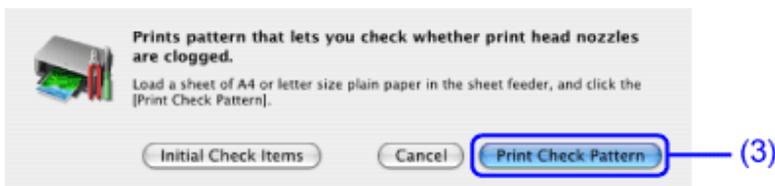
2 Open the BJ Printer Utility dialog box.

 **Note** The BJ Printer Utility cannot be used with Bluetooth communication.

- (1) Double-click the hard disk icon where the printer driver was installed, the **Applications** folder, and then the **Utilities** folder.
- (2) Double-click the **Printer Setup Utility** icon.
If you are using an OS other than Mac OS X v.10.3, double-click the **Print Center** icon.
- (3) Select **iP90** from the **Name** list and click **Utility** or **Configure**.
- (4) Select **iP90** from the **Product** list and click **Maintenance**.

3 Print the Nozzle Check Pattern.

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



- (3) Click **Print Check Pattern**.

 **Note** Click the **Initial Check Items** button. A confirmation message for printing the nozzle check pattern is displayed.

- (4) Confirm the nozzle check pattern.

See [Examining the Nozzle Check Pattern](#)

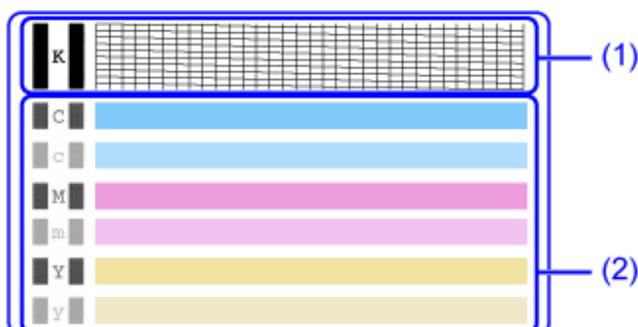
■ Examining the Nozzle Check Pattern

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

 **Note** If the ink level is low, the nozzle check pattern is not printed properly. Replace an ink tank.

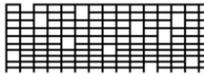
See [Replacing an Ink Tank](#)

1 Confirm the printed nozzle check pattern.



- (1) Lines missing in this pattern indicate that the Print Head of black ink requires cleaning.

When with lines missing (black ink)



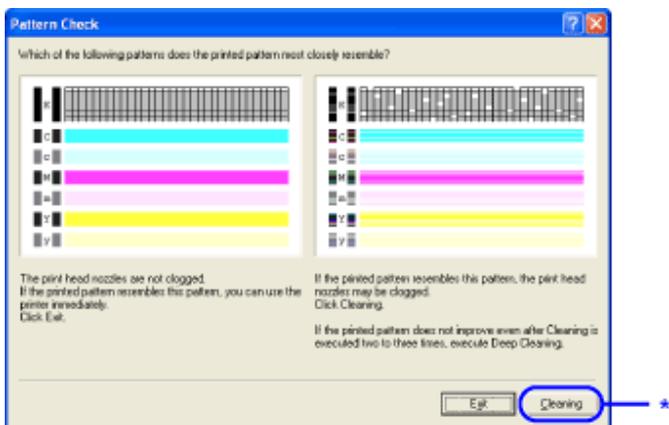
(2) White stripes in this pattern indicate that the Print Head of color ink requires cleaning.

When white stripes appear (color ink)



2 When cleaning is necessary, click on the **Cleaning** button on the **Pattern Check** dialog.

Windows

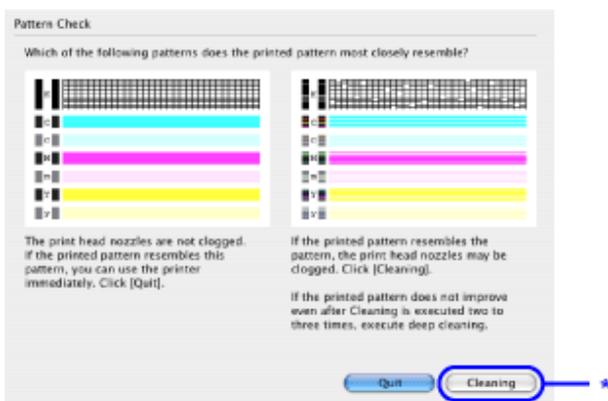


* Click the **Cleaning** button, then go to Print Head Cleaning.

See [Print Head Cleaning](#)

If there are neither missing lines nor white stripes in the nozzle check pattern, click **Exit** to finish the nozzle check.

Macintosh



* Click the **Cleaning** button, then go to Print Head Cleaning.

See [Print Head Cleaning](#)

If there are neither missing lines nor white stripes in the nozzle check pattern, click **Quit** to finish the nozzle check.



Replacing an Ink Tank

If the print result is not improved after maintenance such as Print Head cleaning, an ink tank runs out of ink. Replace the ink tank with a new one. When replacing an ink tank, check the model number very carefully. The printer will not print properly if a wrong ink tank is used, or installed in the incorrect position.



See [Replacing an Ink Tank](#)

See [Resetting the Ink Counter](#)

See [How Low Ink Warning Setting Works](#)



■ Replacing an Ink Tank

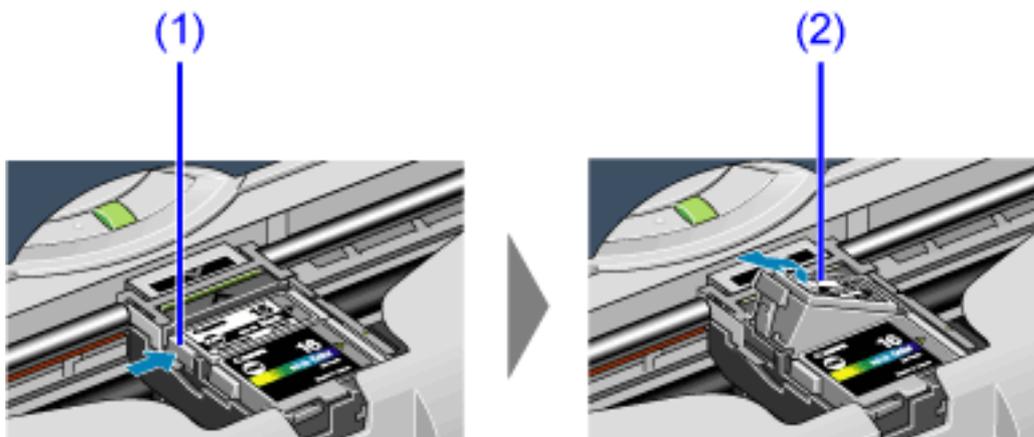
When an ink tank runs out of ink, replace it using the following steps.

1 Ensure that the printer is turned on, and then open the **Print Head Cover**.

The Print Head Holder moves to the center.



2 Remove the empty ink tank.



(1) Push the tab.

(2) Remove the ink tank.

Then lift it from its slot.

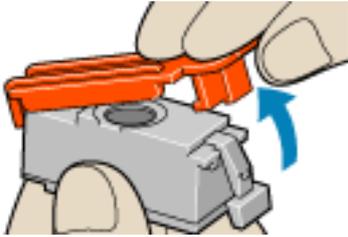
Do not touch the Lock Lever; remove only the ink tank.

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 tank.

(1) Unpack a new ink tank and remove the orange Protective Cap.

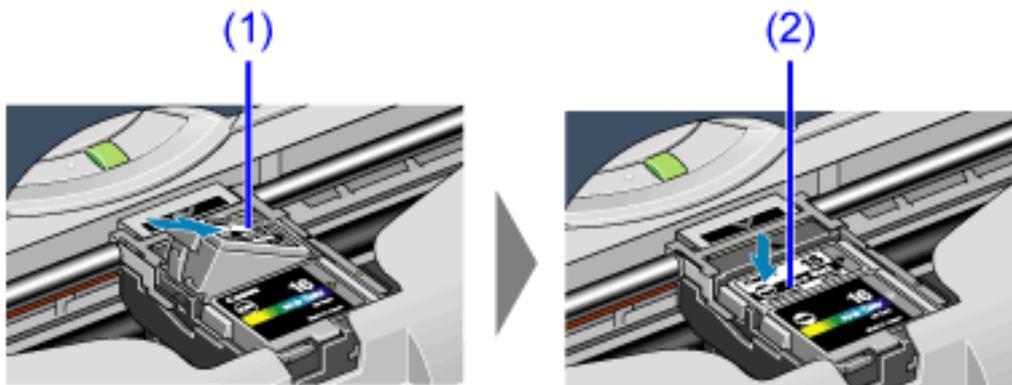


- Important**
- Do not re-attach the Protective Cap once you have removed it.
 - Once the Protective Cap is removed, do not touch the open ink port.

4 Insert the ink tank.

(1) Insert a new ink tank with it slightly slanted.

(2) Push down on the **PUSH** on the ink tank until it clicks into place.



5 Close the Print Head Cover.

The Print Head Holder moves to the right.

Important When an ink tank is replaced, the ink counter must be reset.

See [Resetting the Ink Counter](#)



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 problem may occur. And, the Low Ink Warning dialog which tells the exchange time of an ink tank cannot be indicated properly.



■ 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.

Windows

● Message Prompting Confirmation of Ink Tank Replacement

If an ink tank is removed, the printer will output a message prompting you to confirm replacement of the ink tank at the start of the next print job.

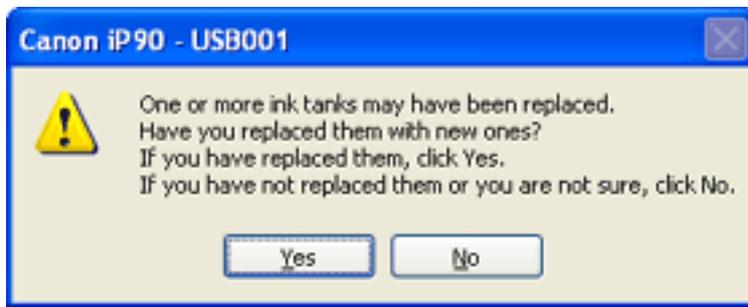
When an ink tank has been replaced, follow the procedure below to reset the ink counter. The low ink warning is only displayed properly if the ink counter is reset.

Important If infrared communication is performed in Windows XP or Windows 2000, the printer will not output the message asking for confirmation of ink tank replacement.
Reset the ink counter from the printer driver when you replace the ink tank.

1 Check the message, and click Yes.

 **Note** Mistakenly clicking **No** instead, will prevent the low ink warning from functioning properly. If this happens, be sure to open the driver's Properties dialog box and manually reset the ink tank counter in the Maintenance tab.

See [Resetting the Ink Counter in Printer Properties dialog box](#)



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**.



- Resetting the Ink Counter in Printer Properties dialog box

Windows

1 Open the Printer Properties dialog box and click the Maintenance tab.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

2 Click Ink Counter Reset.

3 Select the newly installed ink tank, then click OK.

Macintosh

 **Note** The BJ Printer Utility cannot be used with Bluetooth communication.

1 Double-click the hard disk icon where the printer driver was installed, the Application folder, the Utilities folder, and then the Printer Setup Utility icon.

If you are using an OS other than Mac OS X v.10.3, double-click the Print Center icon.

2 Select iP90 from the Name list and click Utility or Configure.

3 Select iP90 from the Product list and click Maintenance.

4 Select Remaining Ink Level Setting from the pop-up menu.

5 Click Ink Counter Reset.

6 Select the newly installed ink tank, then click OK.



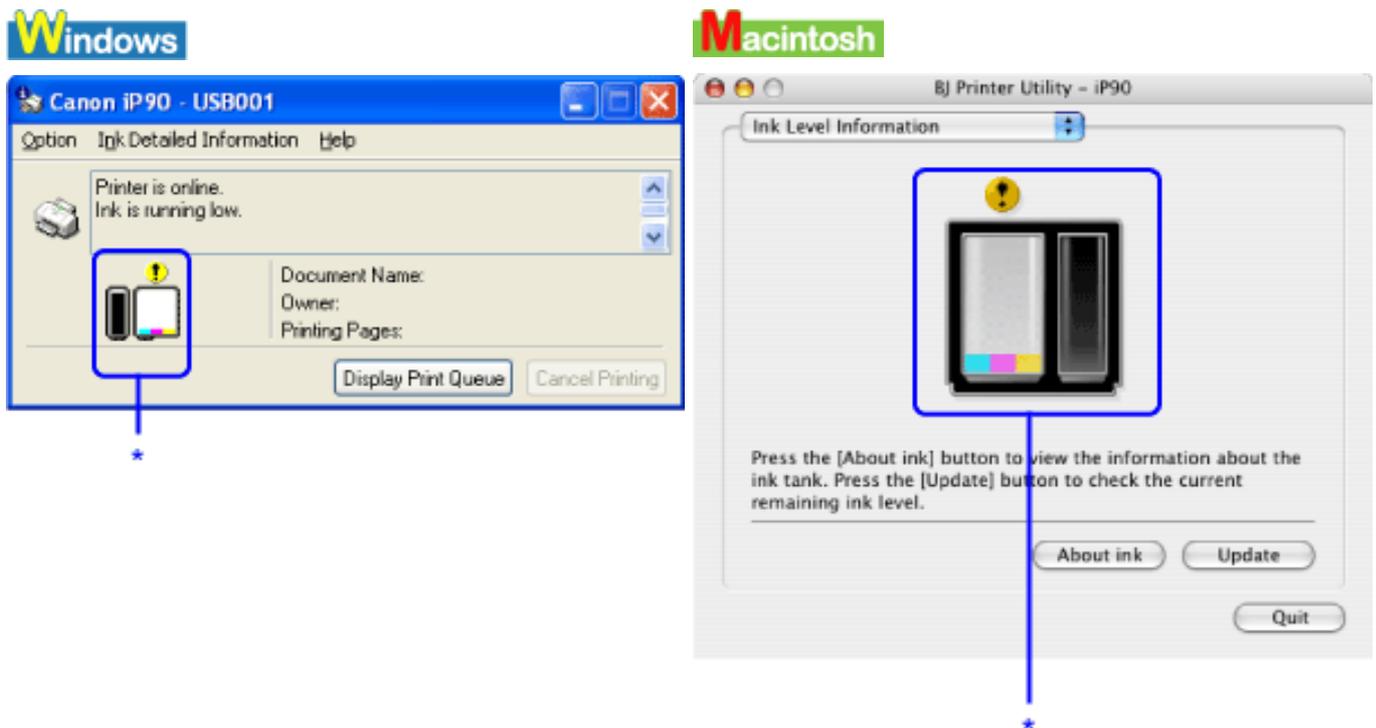
■ How Low Ink Warning Setting Works

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 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.



* The color ink becomes low.

📖 Note How to Check Ink Level

Windows

Open the Printer Properties dialog box. Click the Maintenance tab and then Start Status Monitor.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

If the ink level becomes low, the low ink warning is displayed when printing is performed.

Macintosh

Open the BJ Printer Utility, and then select Ink Level Information from the

pop-up menu.

See [Opening the BJ Printer Utility](#)

● 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, ensure that you treat both counters separately.

See [Low Ink Warning Displays Ink Tank with '?'](#)



BJ Printer Utility

■ Opening the BJ Printer Utility

To open the **BJ Printer Utility**, follow the procedure below.

 **Note** The BJ Printer Utility cannot be used with Bluetooth communication.

1 Double-click the hard disk icon where the printer driver was installed, the **Applications** folder, and then the **Utilities** folder.

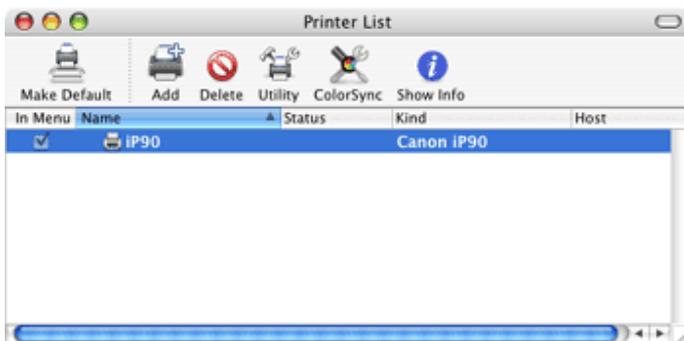
2 Double-click the **Printer Setup Utility** icon.

If you are using an OS other than Mac OS X v.10.3, double-click the **Print Center** icon.

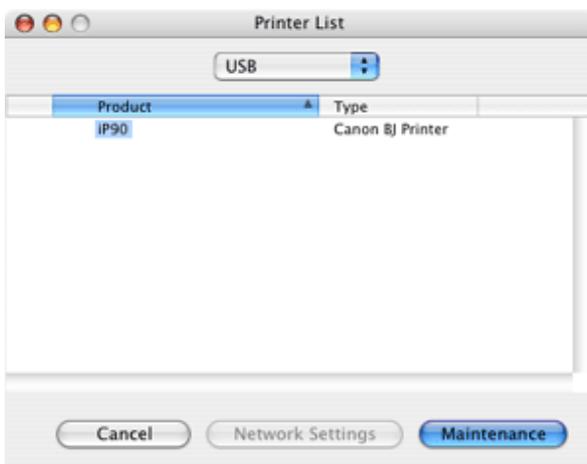
The **Printer List** opens.

3 Select your printer name from the **Name** list and click **Utility**.

If you are using an OS other than Mac OS X v.10.3, select your printer name from the **Name** list and click **Configure**.



4 Select your printer name from the **Product** list and click **Maintenance**.



The **BJ Printer Utility** launches.

The displays on the **BJ Printer Utility** are changed by pop-up menus that you can scroll through. From the pop-up menus, you can select the following items.

See [Cleaning](#)

See [Test Print](#)

See [Ink Level Information](#)

See [Remaining Ink Level Setting](#)

See [Ink Saving Settings](#)

See [Battery Level Information](#)

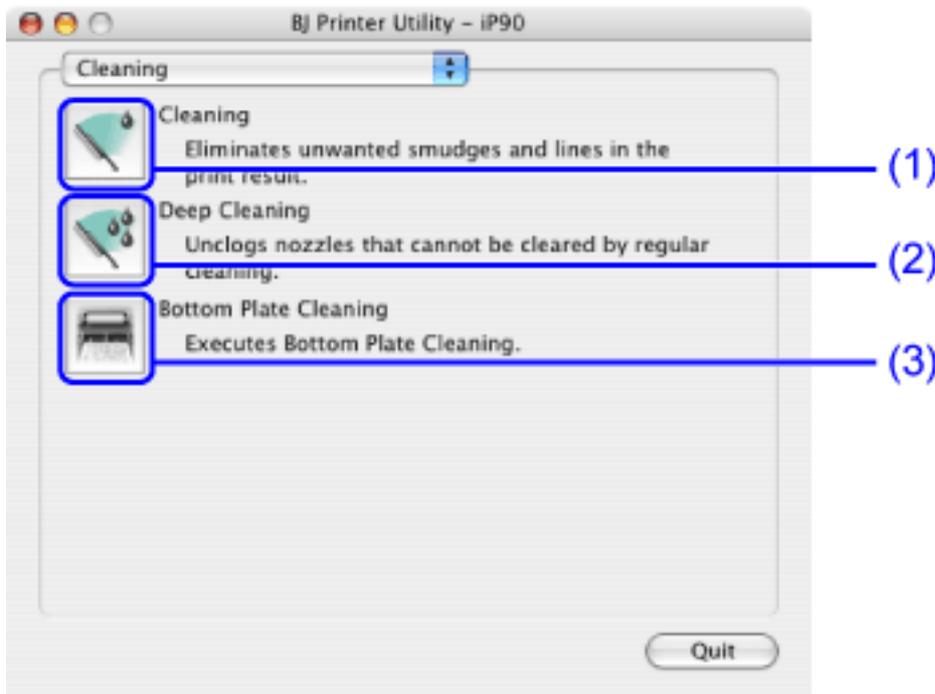
See [Quiet Mode](#)

See [Custom Settings](#)



■ Cleaning

Click to start Print Head Cleaning. When printing becomes faint or colors are incorrect, cleaning the Print Heads may fix these problems.



(1) Cleaning

Perform Print Head Cleaning to unclog the Print Head Nozzles.

Select this cleaning when the print result is unsatisfactory.

See [Print Head Cleaning](#)

(2) Deep Cleaning

Perform a more thorough Print Head Cleaning to unclog the Print Head Nozzles.

Use this function only if **Cleaning** has not improved the print quality.

See [Print Head Deep Cleaning](#)

(3) Bottom Plate Cleaning

Click to clean the Bottom Plate smudged during duplex printing.

See [Cleaning the Inside of the Printer](#)



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 more ink than standard Print Head Cleaning, so perform this procedure only when necessary.

Windows

1 Ensure that the printer is turned on.

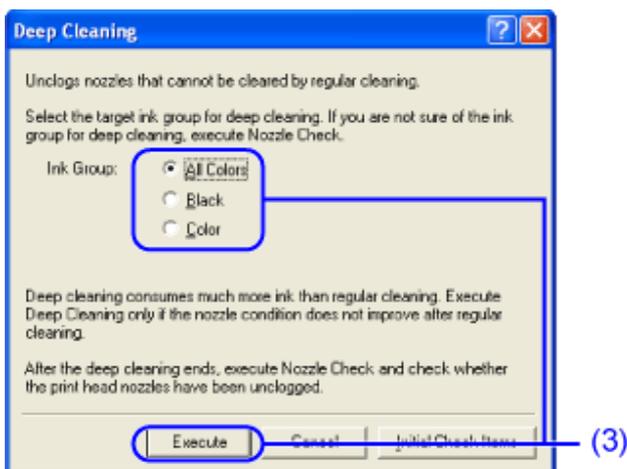
2 Open the Printer Properties dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

3 Start Print Head Deep Cleaning.

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

(2) Click **Deep Cleaning**.



(3) Select the Print Head to be cleaned, and then click **Execute**.

Note Click the **Initial Check Items** button. Confirmation message for Print Head Deep Cleaning is displayed.

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

Print Head Deep Cleaning starts when the **POWER** lamp starts blinking.

Important Do not perform any other operations until Print Head Deep Cleaning is completed (about two to three minutes).

4 Check the Print Head condition.

(1) Print a nozzle check pattern to check the Print Head condition.
For details, refer to [Printing the Nozzle Check Pattern](#).

(2) If the problem persists, perform step 3 again.

(3) If the problem persists, the printer may have run out of ink.

For details, refer to [Replacing an Ink Tank](#).

(4) If the problem persists, a Print Head may be damaged. In this case, contact a Canon service representative.

Macintosh

1 Ensure that the printer is turned on.

2 Open the BJ Printer Utility dialog box.

 **Note** The BJ Printer Utility cannot be used with Bluetooth communication.

(1) Double-click the hard disk icon where the printer driver was installed, the **Applications** folder, and then the **Utilities** folder.

(2) Double-click the **Printer Setup Utility** icon.

If you are using an OS other than Mac OS X v.10.3, double-click the **Print Center** icon.

(3) Select **iP90** from the **Name** list and click **Utility** or **Configure**.

(4) Select **iP90** from the **Product** list and click **Maintenance**.

3 Start Print Head Deep Cleaning.

(1) Select **Cleaning** from the pop-up menu.

(2) Click **Deep Cleaning**.

(3) Select the Print Head to be cleaned, and then click **OK**.

Print Head deep cleaning starts when the **POWER** lamp starts blinking.

 **Note** Click the **Initial Check Items** button. Confirmation message for Print Head Deep Cleaning is displayed.

Important Do not perform any other operations until Print Head deep cleaning finishes. This takes about two to three minutes.

4 Check the Print Head condition.

(1) Print a nozzle check pattern to check the Print Head condition.

For details, refer to [Printing the Nozzle Check Pattern](#).

(2) If the problem persists, perform step 3 again.

(3) If the problem persists, the printer may have run out of ink.

For details, refer to [Replacing an Ink Tank](#).

(4) If the problem persists, a Print Head may be damaged. In this case, contact a Canon service representative.



Aligning the Print Head

If ruled lines are displaced or a print result is unsatisfactory, Print Head Alignment is required.

Windows

1 With the printer on, load a sheet of A4 or Letter-sized plain paper in the Auto Sheet Feeder.

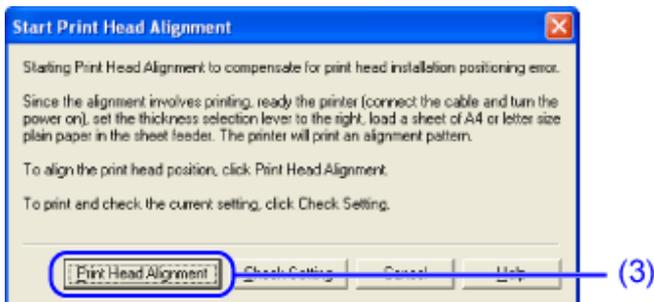
Move the Paper Thickness Lever (gray) to the right position.

2 Open the Printer Properties dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

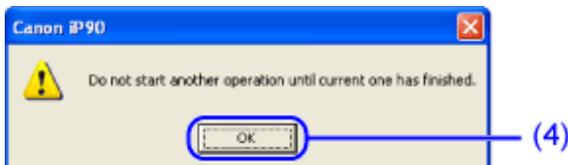
3 Print the pattern.

- (1) Click the **Maintenance** tab.
- (2) Click **Print Head Alignment**.
- (3) Click **Print Head Alignment**.

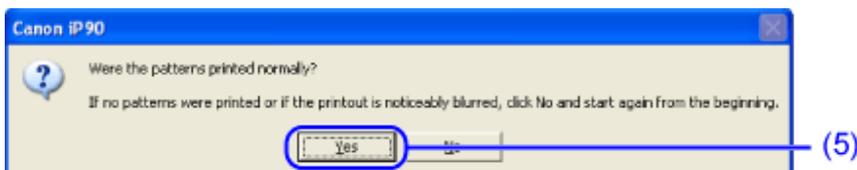


Note Click **Check Setting** to print the current setting and finish the operation.

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



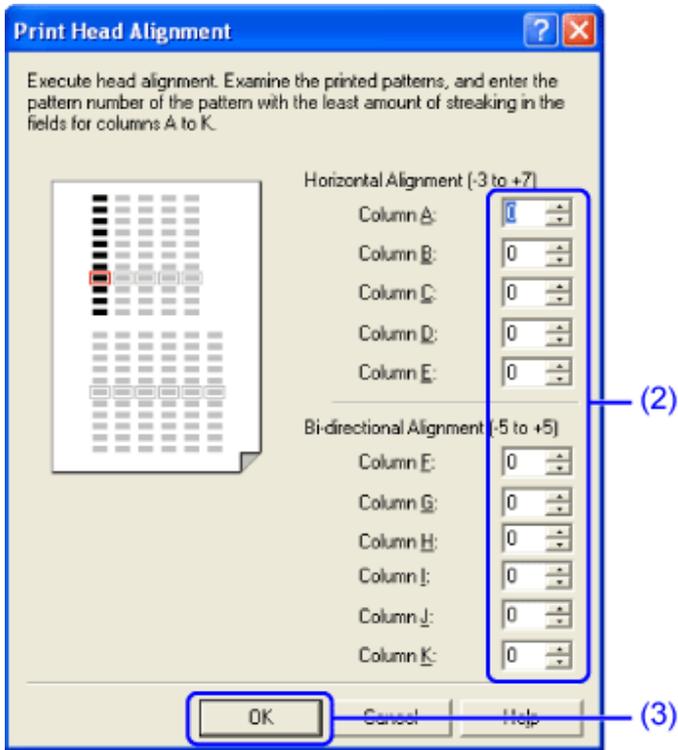
- (5) After the pattern is printed, click **Yes**.



4 Align the Print Head.

- (1) Look at the printout. From the patterns, select the most even, least irregular patterns.
- (2) Enter the numbers.

(3) Click **OK**.



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



Less noticeable white stripes More noticeable white stripes

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

Macintosh

1 With the printer on, load a sheet of A4 or Letter-sized plain paper in the Auto Sheet Feeder.

Move the Paper Thickness Lever (gray) to the right position.

2 Open the BJ Printer Utility dialog box.

 **Note** The BJ Printer Utility cannot be used with Bluetooth communication.

(1) Double-click the hard disk icon where the printer driver was installed, the **Applications** folder, and then the **Utilities** folder.

(2) Double-click the **Printer Setup Utility** icon.

If you are using an OS other than Mac OS X v.10.3, double-click the **Print Center** icon.

(3) Select **iP90** from the **Name** list and click **Utility** or **Configure**.

(4) Select **iP90** from the **Product** list and click **Maintenance**.

3 Print the pattern.

(1) Select **Test Print** from the pop-up menu.

(2) Click **Print Head Alignment**.

(3) Click **Print Head Alignment**.

The pattern will be printed.

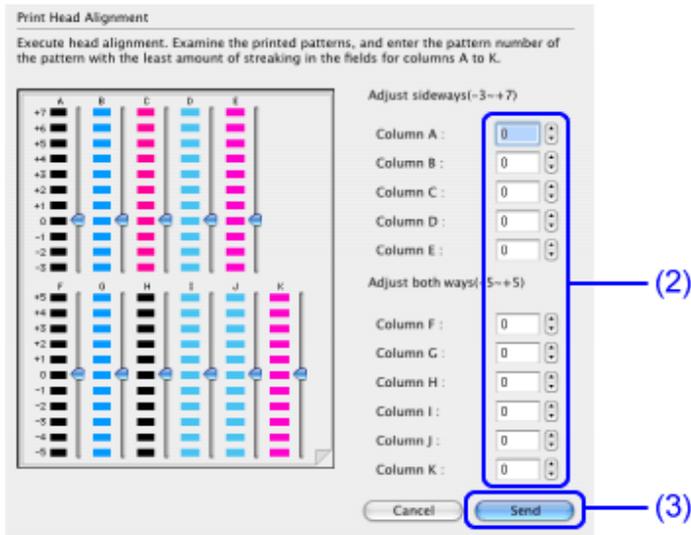
 **Note** Click **Check Setting** to print the current setting and finish the operation.

4 Align the Print Head.

(1) Look at the print out. From the patterns, select the most even, least irregular patterns.

(2) Enter the numbers.

(3) Click **Send**.



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



Less noticeable white stripes More noticeable white stripes



Cleaning the Inside of the Printer

If the printed paper is smudged, the inside of the printer may be dirty. To always get best quality printing result, periodical cleaning of that part is recommended.

You can clean that part in two ways:

See [Cleaning the Bottom Plate](#)

See [Cleaning the Protrusions inside the Printer](#)

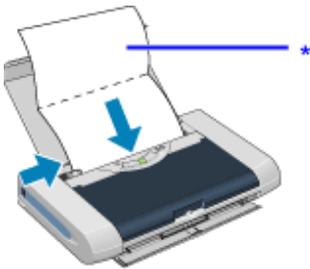
Important When using Photo Paper Plus Double Sided PP-101D, be sure to clean the inside of the printer before printing.

See [Photo Paper Plus Double Sided PP-101D](#)

■ Cleaning the Bottom Plate

Windows

- 1** Ensure that the printer is turned on and there is no paper loaded in the Auto Sheet Feeder.
- 2** Place A4 or Letter-sized plain paper in landscape, horizontally fold it in half, and open it.
- 3** Load it in the Auto Sheet Feeder with the opened side facing up.



* Insert the paper with open.

- 4** Open the Printer Properties dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

- 5** Start Bottom Plate Cleaning.

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

(2) Click **Bottom Plate Cleaning**.

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

Paper will be ejected.

Confirm discharged paper. When dirt sticks still, carry out cleaning again.

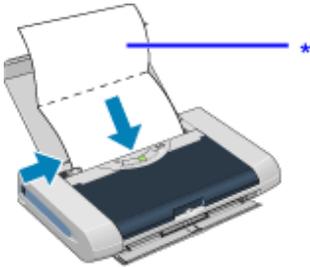
If dirt is not removed after three times cleaning, there is a possibility that the inside of the printer is dirty.

Clean the inside of the printer in accordance with the following steps.

See [Cleaning the Protrusions inside the Printer](#)

Macintosh

- 1** Ensure that the printer is turned on and there is no paper loaded in the Auto Sheet Feeder.
- 2** Place A4 or Letter-sized plain paper in landscape, horizontally fold it in half, and open it.
- 3** Load it in the Auto Sheet Feeder with the opened side facing up.



* Insert the paper with open.

- 4** Open the BJ Printer Utility dialog box.

 **Note** The BJ Printer Utility cannot be used with Bluetooth communication.

(1) Double-click the hard disk icon where the printer driver was installed, the **Applications** folder, and then the **Utilities** folder.

(2) Double-click the **Printer Setup Utility** icon.

If you are using the OS other than Mac OS X v.10.3, double-click the **Print Center** icon.

(3) Select **iP90** from the **Name** list and click **Utility** or **Configure**.

(4) Select **iP90** from the **Product** list and click **Maintenance**.

- 5** Start Bottom Plate Cleaning.

(1) Select **Cleaning** from the pop-up menu.

(2) Click **Bottom Plate Cleaning**.

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

Paper will be ejected.

Confirm discharged paper. When dirt sticks still, carry out cleaning is carried out again.

If dirt is not removed after three times cleaning, there is a possibility that the inside of the printer is dirty.

Clean the inside of the printer in accordance with the following steps.

See [Cleaning the Protrusions inside the Printer](#)

■ Cleaning the Protrusions inside the Printer

If protrusions inside the printer are stained, wipe ink off the protrusions using a swab or the like.

Important

- Before cleaning, be sure to turned off the printer.
- Never touch the transparent tape. The printer may be faulty and unable to print data.



* Transparent tape



Photo Paper Plus Double Sided PP-101D

This paper is provided with glossy coating on both sides, ensuring superior color reproduction.

This paper is suitable for borderless printing.

See [Printing Photographs](#)

Important When using Photo Paper Plus Double Sided paper, be sure to clean the inside of the printer before printing.

If the inside of the printer is dirty, printed paper may be smudged.

See [Cleaning the Inside of the Printer](#)

This media is available in A4 / Letter and 5" x 7" / 127.0 x 177.8 mm sizes.

■ Loading

- Load only one sheet at a time.
- Set the Paper Thickness Lever (gray) to the right.
- If paper is curled, uncurl it before loading in the Auto Sheet Feeder.
- Clean the space by the side of Paper Output Slot Cover, so that neither garbage nor dirt adheres to paper.

Note To Print with Duplex Printing (In Windows)

After printing one side, load the paper in the Auto Sheet Feeder to print on the other side, according to the message shown on the screen.

■ Printer Driver Settings

- **Media Type:** Photo Paper Plus Double Sided
- **Page Size:** Ensure that the setting matches the size set in the application.

■ Handling of Printed Output

- Remove each sheet as soon as it is printed.
- After printing, dry the printouts for more than 30 minutes. When printouts need to be stacked up, allow them to dry for about 48 hours with a plain paper in the package of the media inserted between the adjacent printouts after allowing each printout to dry for about 30 minutes.
- Avoid drying printouts with a hair dryer or by exposing them to direct sunlight.
- Do not touch the surfaces of printouts or stack them up before ink dries up.

■ Storing Printed Output

- Store printouts in album or plastic files to protect them from direct exposure to air.
 - * Album or plastic files protect printouts from color fading.
- Avoid storing printouts in a hot or humid location or in direct sunlight. Store them in a normal operating environment.
- Avoid displaying or exhibiting printouts outdoors or in direct sunlight.

■ Printing Area

See [Printing Area](#)

 **Note** When creating a photograph or illustration data subject to borderless printing, select the same size as that of the paper you use and paste it in the editing window without providing any margin.

If your application software can set margins, set the left, right, top, and bottom margins to "0 mm". For how to set margins, refer to the instruction manual for your application software.



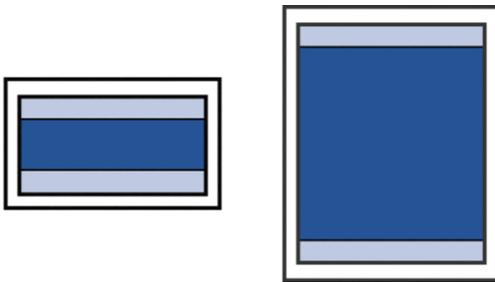
Appendix

Printing Area

To ensure the best print quality, the printer allows a margin along each edge of media. The actual printable area will be the area without these margins. By selecting Borderless Printing*, printing with no margins is possible.
* This is available in A4/Letter, 4" x 6" / 101.6 x 152.4 mm, 5" x 7" / 127.0 x 177.8 mm and Credit Card paper size.

Recommended printing area (dark blue): Canon recommends that you print within this area. ()

Printable area (light blue): The area where it is possible to print. However, printing in this area can adversely affect the print quality or the paper feed precision. ()



See [A4, B5, A5, 4" x 6", 5" x 7", Credit Card](#)

See [Letter, Legal](#)

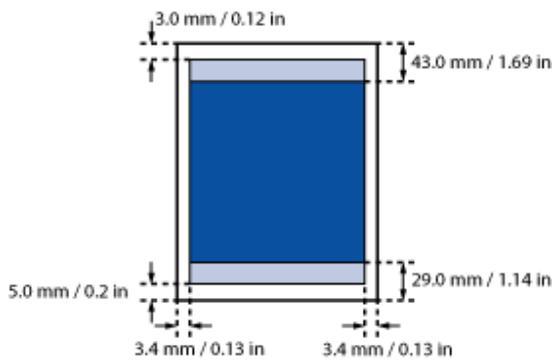
See [Envelopes](#)

■ A4, B5, A5, 4" x 6", 5" x 7", Credit Card

Size	Printable Area (width x height)
A4	203.2 x 289.0 mm / 8.0 x 11.4 in
B5	175.2 x 249.0 mm / 6.9 x 9.8 in
A5	141.2 x 202.0 mm / 5.6 x 7.9 in
4" x 6" / 101.6 x 152.4 mm	94.8 x 144.4 mm / 3.7 x 5.7 in
5" x 7" / 127.0 x 177.8 mm	120.2 x 169.8 mm / 4.7 x 6.7 in
Credit Card	47.2 x 78.0 mm / 1.86 x 3.07 in

 **Note** When Printing on Photo Paper Pro PR-101, Glossy Photo Paper GP-401, Photo Paper Plus Glossy PP-101, Photo Paper Plus Semi-Gloss SG-101, Matte Photo Paper MP-101 and Photo Paper Plus Double Sided PP-101D, selection of "Borderless Printing" enables you to make prints with no margins.

However, Borderless Printing may reduce print quality on the top and bottom edges of the paper or cause it to become smudged.



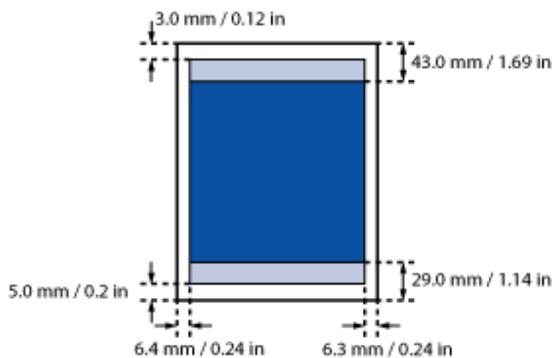
- Recommended printing area
- Printable area

■ Letter, Legal

Size	Printable Area (width x height)
Letter	203.2 x 271.4 mm / 8.0 x 10.7 in
Legal	203.2 x 347.6 mm / 8.0 x 13.7 in

Note When Printing on Photo Paper Pro PR-101, Glossy Photo Paper GP-401, Photo Paper Plus Glossy PP-101, Photo Paper Plus Semi-Gloss SG-101, Matte Photo Paper MP-101 and Photo Paper Plus Double Sided PP-101D, selection of "Borderless Printing" enables you to make prints with no margins.

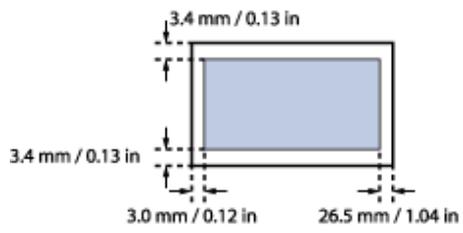
However, Borderless Printing may cause the top and bottom edges of paper to decrease in print quality or become soiled (Under certain circumstances, the edges of the reverse side may be smudged).



- Recommended printing area
- Printable area

■ Envelopes

Size	Printable Area (width x height)
European DL	190.5 x 103.2 mm / 7.5 x 4.1 in
US Com. #10	211.8 x 97.97 mm / 8.34x 3.86 in



 Printable area



Problems Relating to Windows

- [The BJ Status Monitor is Not Displayed](#)
 - [Cannot Print in Background \(In Windows Me or Windows 98\)](#)
-

■ The BJ Status Monitor is Not Displayed

- In Windows Me or Windows 98, check the bi-directional setting.
 - (1) Open the **Printer Properties** dialog box.
See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)
 - (2) Click the **Details** tab, and then click the **Spool Settings** and ensure that the Enable bi-directional support for this printer is selected.
 - Ensure that the Enable Status Monitor is selected.
 - (1) Open the **Printer Properties** dialog box.
See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)
 - (2) Click the **Maintenance** tab, and then select **Start Status Monitor**.
 - (3) Ensure that the Enable Status Monitor check box is selected in the Option menu.
-

■ Cannot Print in Background (In Windows Me or Windows 98)

- Check the amount of free space on the hard disk.

Background printing requires a certain amount of disk space. You may need to delete unnecessary files, or disable Background Printing.
- Ensure that the Background Printing is enabled.
 - (1) Open the **Printer Properties** dialog box.
See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)
 - (2) Click the **Page Setup** tab, and then click **Printer control** and select **Background printing**.



Cannot Print Properly through Infrared Communication

- [The required driver is not installed](#)
- [The installation place of the printer is not proper](#)
- [During infrared communication, infrared rays were interrupted or another infrared communication unit is operating nearby](#)
- [The requirements for infrared communications with the computer or other devices are not satisfied](#)
- [The infrared communication driver is inactive](#)
- [The printer port status is wrong \(In Windows Me or Windows 98\)](#)
- [The printer port setting is wrong](#)

■ The required driver is not installed

Check whether the driver meeting the following requirements is installed.

Windows 98 or later must be preinstalled and Microsoft Infrared Communication Driver must be installed in the computer.

For details on Microsoft Infrared Communication Driver, refer to your computer's operation manual.

For details on the requirements for infrared communication, refer to the Quick Start Guide.

■ The installation place of the printer is not proper

- Check whether the printer is installed in an appropriate place.

Place the printer at a proper distance from the computer, PDA (Personal Digital Assistants) or a mobile phone, oppose their infrared ports at a proper angle, remove obstacles between them if they exist, and retry printing. The allowable distance and angle for infrared communication depends on the functions of the computer, PDA or mobile phone and the environmental conditions. Place the printer at a distance of 31.5 inch/80 cm or shorter from the computer or PDA and adjust the infrared port angle properly. When printing from a mobile phone, place it at a distance of 7.9 inch/20 cm or shorter.

For how to print through infrared communication, refer to the Quick Start Guide.

- Check whether iP90 is detected by the computer.

- **In Windows XP, Windows 2000, or Windows Me**

(1) Check whether the Wireless Link icon is displayed on the task bar.

If not displayed, iP90 is not detected by the computer.

Ensure that the printer is turned on. Bring the printer and computer closer to each other in such a manner that their infrared ports are opposed properly.

(2) Place the mouse cursor on the Wireless Link icon.

Ensure that "iP90 is in range" is displayed.

If the name of another unit is displayed, change the orientation of this unit or turn it off.

- **In Windows 98**

(1) Click Start and select Settings and Control Panel.

(2) Double-click the Infrared icon.

If the **Infrared** icon is not displayed, the infrared communication driver may not be installed. Refer to your Windows documentation.

(3) Ensure that iP90 is displayed on the Status tab.

If not displayed, ensure that the printer is turned on. Bring the printer and computer closer to each other in such a manner that their infrared ports are opposed properly.

If the same problem persists, turn off the printer and then remove the Universal AC Adapter (remove the battery if loaded). Next, connect the Universal AC Adapter (and the battery if you use it). Next, turn on the printer and retry printing.

If the name of another unit is displayed, change the orientation of this unit or turn it off.

■ During infrared communication, infrared rays were interrupted or another infrared communication unit is operating nearby

If infrared communication between the infrared ports of the printer and computer or PDA is interrupted by any obstacle for ten and several seconds or longer during printing, the paper on which data is being printed is ejected and the printer is reset. Remove the obstacle and retry printing.

If an infrared communication unit is operating nearby, interference can occur and fail in printing the document to the end. While printing a document through infrared communication, do not operate another infrared communication unit, such as a remote controller of a TV, nearby.

For how to print through infrared communication, refer to the *Quick Start Guide*.

■ The requirements for infrared communications with the computer or other devices are not satisfied

- **Printing from the computer**

Use a computer equipped with the infrared communication port based on the IrDA version 1.1 standard.

- **Printing from the PDA or mobile phone**

Use a PDA or a mobile phone equipped with an IrDA port and which was based on the IrMC version 1.1.

■ The infrared communication driver is inactive

Check whether the infrared communication driver is active.

- **In Windows Me**

(1) Click **Start** and select **Settings** and then **Control Panel**.

(2) Ensure that the Wireless Link icon is displayed.

If the Wireless Link icon is not displayed, the infrared communication driver may not be installed. Refer to your Windows documentation.

- **In Windows 98**

(1) Click **Start** , select **Settings** , and then **Control Panel**.

(2) Double-click the **Infrared** icon.

(3) Click the **Options** tab.

(4) Select the **Enable infrared communication** check box (or select the **Enable infrared communication on** : check box).

(5) Click the **OK** button.

■ The printer port status is wrong (In Windows Me or Windows 98)

Check the printer port status.

- (1) Right-click **My Computer** and select **Properties**.
- (2) On the Device Manager sheet, click **Port (COM/LPT)** (or **Port (COM&LPT)**) and double-click **Virtual infrared LPT port** (or **Infrared printer (LPT) port**).
- (3) Check whether any device problem is displayed on the General (or Information) sheet.

If any device problem is displayed, refer to your Windows documentation.

■ The printer port setting is wrong

When printing from the computer through infrared communication, check whether the IR port is selected as the printer port (LPT3 port in Windows Me or Windows 98). If another port is selected, the printer may malfunction.

- (1) Open the **Printer Properties** dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

- (2) Click the **Ports** tab (or **Details** tab) to check the settings.



Cannot Print Properly from the Digital Camera

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

*Hereafter, a digital still camera and a digital video camcorder are collectively called a camera.



Note

- PictBridge and Bubble Jet Direct compatible cameras can be connected to the printer for direct printing.
- Error messages displayed on the camera compatible with Canon PictBridge or Canon Bubble Jet Direct are described below. Error messages and button operation may be different depending on the type of your camera.

If your camera is ready for PictBridge other than Canon PictBridge and you do not know how to recover an error from the camera, check the flashing pattern of the **POWER** lamp on the printer.

See [The POWER Lamp Flashes Orange](#)

- If the connected camera does not support PictBridge or Bubble Jet Direct, the **POWER** lamp on the printer flashes nine 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 camera is connected to this printer, a communication time error may occur and no more images can be printed. If this error occurs, disconnect the camera connection cable, press the **RESUME/CANCEL** button and then connect the cable once again. They will automatically turn on. If not, turn it on. If this error persists, select another photo and check whether it can be printed normally.
- If the print is faint or uneven, the Print Head Nozzles may be clogged.

See [When Printing Becomes Faint or Colors are Incorrect](#)

- If paper is curled or the print surface is scratched during printing, check whether the paper in use is proper. If the print surface is scratched even when proper paper is used, move the Paper Thickness Lever (gray) to the left position (Envelope).

See [Printed Surface is Scratched](#)

- For more details, also refer to the user's manual for the camera.

If there is a problem with the camera, contact a Canon service representative. For non-Canon cameras, contact a manufacturer of them.

● 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

Wait until warm-up ends. When it is ready, the printer starts printing automatically.

● No Paper/ Paper error

Reload paper in the Auto Sheet Feeder of the printer and select Continue*1 in the Error screen on the camera.

● Paper Jam

Select **Cancel** in the Error screen on the camera to cancel the print job. Remove the jammed paper, load new media, and press the **RESUME/CANCEL** button.

● Printer cover open

Close the Print Head Cover.

● No Print Head

No Print Head is installed or the Print Head is defective (The **POWER** lamp on the printer flashes five times).

Install a Print Head according to your setup guide. If a Print Head has already been installed, remove it, and then reinstall it.

If the problem still remains, the Print Head may be defective. Contact a Canon service representative.

● Waste tank (waste ink absorber*2) full

The waste ink absorber is nearly full.

Selecting **Continue***1 in the Error screen on the camera resumes printing. Printing can be continued for a while, but printing cannot be continued when the waste ink absorber becomes full. Canon recommends to contact a Canon service representative as soon as possible.

● Ink tank is empty

Printing resumes once the Print Head Cover is closed after an ink tank replacement.

You can continue printing by selecting **Continue***1 in the display on your camera with the ink tank empty.

But, it is recommended you replace it with a new one immediately after printing. It may damage the printer if you continue printing with empty ink tanks.

● Printer error

- The optional battery level is low (The **POWER** lamp on the printer flashes twelve times).

Follow the procedure below to secure the power supplies.

(1) Turn off the printer.

(2) Connect the supplied Universal AC Adapter or load a charged battery.

(3) Turn on the printer.

- An error requiring servicing has occurred (The **POWER** lamp on the printer flashes alternately orange and green).

Select **Cancel** in the Error screen on the camera to cancel the print job.

Disconnect the cable connected to the camera, turn off the printer, and unplug the power cord of the printer from the outlet. Leave the printer for a while, plug the power cord of the printer back in the outlet, turn on the printer, and connect the camera to the printer. If the error persists, contact a Canon service representative.

*1 You can press the **RESUME/CANCEL** button on the printer instead of selecting **Continue**.

*2 Ink used for cleaning is absorbed in the waste ink absorber placed in the printer. If this error occurs, replacement of the waste ink absorber and maintenance of the printer are required.



The POWER Lamp Flashes Orange

An error has occurred in the printer. The number of flashes indicates the type of error, as outlined below. Check the cause and take appropriate action.

- **Two flashes: Out of paper or paper feed error**

Reload the paper correctly and press the **RESUME/CANCEL** button.

- **Three flashes: Paper jam**

If paper has jammed in the printer, clear the jam, reload the paper in the printer correctly and press the **RESUME/CANCEL** button.

See [Paper Jams](#)

- **Four flashes: Ink tank is not installed properly**

Open the Print Head Cover and check whether an ink tank is installed. If an ink tank is installed, push the  button of the ink tank, and reinstall the ink tank properly.

- **Five flashes: No Print Head installed, or Print Head failure**

Install a Print Head.

When the error continues, contact a Canon service representative.

- **Eight flashes: Waste ink absorber almost full**

Ink used for cleaning is absorbed in a waste ink absorber placed in the printer. Eight flashes indicate that the waste ink absorber is nearly full. Press the **RESUME/CANCEL** button to cancel the error so that you can continue printing.

Important If this error occurs, replacement of the waste ink absorber and maintenance of the printer are required. Canon recommends to contact a Canon service representative as soon as possible. Once the waste ink absorber becomes completely full, it cannot be printed until the Waste ink tank is exchanged.

- **Nine flashes: A specified period of time has lapsed without receiving a response from a digital camera or digital video camcorder / The digital camera or digital video camcorder connected is not compatible with this printer**

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 digital cameras or digital video camcorders that are compatible with this printer.

- **Twelve flashes: Battery level is low**

Charge the battery. For details on how to charge the battery, refer to the manual supplied with the battery.

- **POWER lamp flashes alternate green and orange:**

An error that requires contacting a Canon service representative may have occurred.

Disconnect the printer cable from the printer, and then turn the printer off and unplug the printer from the power supply for a while. Plug the printer back in and turn the printer back on.

If the problem remains, contact a Canon service representative.

- The Power lamp repeats the illumination sequence in which it goes out twice every 5 seconds (Bluetooth communication is used)

When Bluetooth communication is used and BJ Status Monitor is active with the printer power on, the green Power lamp repeats the illumination sequence in which it goes out twice every 5 seconds even if nothing is printed. This operation is not abnormal but it indicates that Bluetooth Communication is checking the printer condition. When BJ Status Monitor ends, the Power lamp will stay lit.



Paper Does Not Feed Properly or Paper Jams

- [Paper Does Not Feed Properly](#)
- [Paper Jams](#)

■ Paper Does Not Feed Properly

- Confirm the paper conditions.
 - If using a non-Canon brand media, ensure that the paper is not too thick (less than 105 gsm/less than 28 lbs).
 - Ensure that the paper is not too thin (more than 64 gsm/more than 17 lbs).
 - Ensure that the number of sheets loaded does not exceed the recommended level.
 - Ensure that the paper is not creased, curled or wrinkled.

See [Compatible Media Types](#)

- Ensure that the left edge of the paper just touches the Paper Guide.
- When printing envelopes, refer to "[Envelopes](#)", and prepare the envelopes before printing.

Once you have prepared the envelopes, load them in the printer in portrait orientation. If the envelopes are placed in landscape orientation, they may not feed properly.

- You may need to clean the Paper Feed Roller. Follow the procedure below.

(1) Ensure that the printer is turned on.

If the paper is loaded in the printer, remove the paper.

(2) Hold down the **RESUME/CANCEL** button; when the **POWER** lamp flashes three times, release the button.

The Paper Feed Roller will rotate as it cleans.

(3) Repeat this operation one more time.

(4) Load a stack of plain paper in the printer.

(5) Hold down the **RESUME/CANCEL** button; when the **POWER** lamp flashed three times, release the button.

The paper that is loaded in the printer will feed through the printer and be ejected.

■ Paper Jams

Remove the paper according to the following procedure.

(1) Slowly pull the paper out, either from the Auto Sheet Feeder or from the Paper Output Slot, whichever is easier.

If the paper tears and a piece remains inside the printer, open the Print Head Cover and remove it.

Caution Be careful not to touch the components inside the printer.

If you cannot pull the paper out, turn the printer off and turn it back on. The paper will be ejected

automatically.

(2) After removing all paper, close the Print Head Cover.

(3) Reload the paper into the printer and press the **RESUME/CANCEL** button.

 **Note** When reloading the paper into the printer, refer to "[Paper Does Not Feed Properly](#)" to ensure that you are using the correct paper and are loading it into the printer correctly.



Printing Media

Compatible Media Types

You can use the following types of paper and other media.

■ Size

- Standard paper: From A5 size (148.0 x 210.0 mm / 5.83 x 8.27 in) to legal size (215.9 x 355.6 mm / 8.5 x 14.0 in)
- Non-standard paper: From 54.0 x 86.0 mm to 215.9 x 584.2 mm (From 2.13 x 3.39 in to 8.5 x 23.0 in)
- Others: Envelopes (European DL and US Com. #10)

Important 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
- Paper that is too thin (less than 64 gsm / 17 lb)
- Paper that is too thick *(more than 105 gsm / 28 lb)
- Picture postcards
- Postcards with an affixed photo or sticker
- Envelopes with double flap
- Envelopes with pressure seals
- Envelopes with an embossed or treated surface

* non-Canon branded paper

■ Weight

64 to 105 gsm (17 to 28 lb)

Do not use paper heavier than this (except for supported Canon-brand media), as it could jam in the paper.

■ Types

The following types of media can be used.

For more information about the media and the printing methods, refer to the specific sections.

Plain paper

Refer to your setup guide for instructions on how to print with plain papers.

See [Photo Paper Pro PR-101](#)

See [Photo Paper Plus Glossy PP-101](#)

See [Photo Paper Plus Semi-Gloss SG-101](#)

See [Matte Photo Paper MP-101](#)

See [Glossy Photo Paper GP-401](#)

See [High Resolution Paper HR-101N](#)

See [Photo Paper Plus Double Sided PP-101D](#)

See [T-Shirt Transfers TR-301](#)

See [Transparencies CF-102](#)

See [Photo Stickers PS-101](#)

See [Envelopes](#)

Important Put unused papers back into the package, and store them avoiding high temperature, humid and direct sunlight.



Photo Paper Pro PR-101

This is a thick paper with a treated surface that enhances gloss and provides superior color reproduction. It is ideal for printing high quality photographs. This media is available in A4/Letter and 4" x 6" / 101.6 x 152.4 mm sizes.

■ Loading

- Load the paper with the glossier side facing up.
- A maximum of 1 sheet of A4/Letter paper can be loaded at once. A maximum of 10 sheets of 4" x 6" / 101.6 x 152.4 mm paper can be loaded at once.
- Set the Paper Thickness Lever (gray) to the right.
- If the paper is curled, flatten it before loading.

■ Printer Driver Settings

- **Media Type:** Photo Paper Pro
- **Page Size:** Ensure that the setting matches the size set in the application.

■ Handling of Printed Output

- Do not stack more than 5 sheets in the Paper Output Slot Cover.
- Do not touch the printed surface until the ink is fixed (approx. 30 minutes).
Colors in dark images may appear indistinct at first, but become clearer after about 30 minutes.
- When printouts can be arranged without stacking them up, allow them to dry for about 24 hours. When printouts need to be stacked up, allow them to dry for about 24 hours with plain paper (e.g., copying paper) inserted between the adjacent printouts after allowing each printout to dry for about 15 minutes.
- Avoid drying printouts with a hair dryer or by exposing them to direct sunlight.

■ Storing Printed Output

- Store printouts in photo albums, plastic folders, and photo frames to protect them from direct exposure to air.

Plastic folders protect printouts from color fading.

Avoid storing printouts in an adhesive-type album, as you may not be able to remove them.

- When storing printouts in a pocket-type album, insert them in the pockets as far as they will go. The edges of the printouts may turn yellow depending on the type of pocket album.
- Avoid storing printouts in a hot or humid location or in direct sunlight. Store them in a normal operating environment.
- Avoid displaying or exhibiting printouts outdoors or in direct sunlight.

■ Printing Area

See [Printing Area](#)

 **Note** When you use Borderless Printing, create the data by using the same size as the paper size, and paste the data so that it fills the editing screen without leaving any margins. If you are using an application that allows you to set margins, set the left, right, top and bottom margins to 0 mm or 0 inches. For instructions on setting margins, refer to the user's manual for your application.



Photo Paper Plus Glossy PP-101

This is a thick paper with a glossy water-resistant coating and provides superior color reproduction. It is ideal for printing high quality photographs. This media is available in A4/Letter, 4" x 6" / 101.6 x 152.4 mm and 5" x 7" / 127.0 x 177.8 mm sizes.

■ Loading

- Load the paper with the glossier side facing up.
- A maximum of 5 sheets of A4/Letter paper can be loaded at once. A maximum of 10 sheets of 4" x 6" / 101.6 x 152.4 mm and 5" x 7" / 127.0 x 177.8 mm paper can be loaded at once.
- To prevent sheets from sticking to each other in the time of using A4/Letter paper, separate them from each other before loading them in the Auto Sheet Feeder. Load the necessary number of paper (a maximum of 5 or 10 sheets) in the Auto Sheet Feeder one at a time.
- Set the Paper Thickness Lever (gray) to the right.
- If the paper is curled, flatten it before loading.

■ Printer Driver Settings

- **Media Type:** Photo Paper Plus Glossy
- **Page Size:** Ensure that the setting matches the size set in the application.

■ Handling of Printed Output

- Do not stack more than 5 sheets in the Paper Output Slot Cover.
- When printouts can be arranged without stacking them up, allow them to dry for about 24 hours. When printouts need to be stacked up, allow them to dry for about 24 hours with plain paper (e.g., copying paper) inserted between the adjacent printouts after allowing each printout to dry for about 15 minutes.
- Avoid drying printouts with a hair dryer or by exposing them to direct sunlight.

■ Storing Printed Output

- Store printouts in photo albums, plastic folders, and photo frames to protect them from direct exposure to air.

Plastic folders protect printouts from color fading.

Avoid storing printouts in an adhesive-type album, as you may not be able to remove them.

- When storing printouts in a pocket-type album, insert them in the pockets as far as they will go. The edges of the printouts may turn yellow depending on the type of pocket album.
- Avoid storing printouts in a hot or humid location or in direct sunlight. Store them in a normal operating environment.
- Avoid displaying or exhibiting printouts outdoors or in direct sunlight.

■ Printing Area

See [Printing Area](#)

 **Note** When you use Borderless Printing, create the data by using the same size as the paper size, and paste the data so that it fills the editing screen without leaving any margins. If you are using an application that allows you to set margins, set the left, right, top and bottom margins to 0 mm or 0 inches. For instructions on setting margins, refer to the user's manual for your application.



Photo Paper Plus Semi-Gloss SG-101

This is a matte water-resistant paper and provides superior color reproduction. It is ideal for printing high quality photographs. This media is available in A4/Letter and 4" x 6"/101.6 x 152.4 mm sizes.

■ Loading

- Load the paper with the side that does not have logos facing up.
- A maximum of 5 sheets of A4/Letter paper can be loaded at once. A maximum of 10 sheets of 4" x 6" / 101.6 x 152.4 mm paper can be loaded at once.
- To prevent sheets of paper from sticking to each other in the time of using A4/Letter paper, separate them from each other before loading them in the Auto Sheet Feeder. Load the necessary number of paper (a maximum of 5 or 10 sheets) in the Auto Sheet Feeder one at a time.
- Set the Paper Thickness Lever (gray) to the right.
- If the paper is curled, flatten it before loading.

■ Printer Driver Settings

- **Media Type:** Photo Paper Plus Glossy
- **Page Size:** Ensure that the setting matches the size set in the application.

■ Handling of Printed Output

- Do not stack more than 5 sheets in the Paper Output Slot Cover.
- When printouts can be arranged without stacking them up, allow them to dry for about 24 hours. When printouts need to be stacked up, allow them to dry for about 24 hours with plain paper (e.g., copying paper) inserted between the adjacent printouts after allowing each printout to dry for about 15 minutes.
- Avoid drying printouts with a hair dryer or by exposing them to direct sunlight.

■ Storing Printed Output

- Store printouts in photo albums, plastic folders, and photo frames to protect them from direct exposure to air.

Plastic folders protect printouts from color fading.

Avoid storing printouts in an adhesive-type album, as you may not be able to remove them.

- When storing printouts in a pocket-type album, insert them in the pockets as far as they will go. The edges of the printouts may turn yellow depending on the type of pocket album.
- Avoid storing printouts in a hot or humid location or in direct sunlight. Store them in a normal operating environment.
- Avoid displaying or exhibiting printouts outdoors or in direct sunlight.

■ Printing Area

See [Printing Area](#)

 **Note** When you use Borderless Printing, create the data by using the same size as the paper size, and paste the data so that it fills the editing screen without leaving any margins. If you are using an application that allows you to set margins, set the left, right, top and bottom margins to 0 mm or 0 inches. For instructions on setting margins, refer to the user's manual for your application.



Matte Photo Paper MP-101

This is a thick matte water-resistant paper and provides superior color reproduction. It is suitable for a variety of printing purposes such as paper crafts, calendars and photos with matte finish.

This media is available in A4/Letter sizes.

■ Loading

- Load the paper with the whiter side facing up.
- A maximum of 10 sheets of A4/Letter paper can be loaded at once.
- Set the Paper Thickness Lever (gray) to the right.

■ Printer Driver Settings

- **Media Type:** Matte Photo Paper
- **Page Size:** Ensure that the setting matches the size set in the application.

■ Handling of Printed Output

- Do not stack more than 5 sheets in the Paper Output Slot Cover.
- Colors may slightly change if papers are stacked up before the ink is completely dry. It is recommended that you allow the ink to dry for 24 hours.
- Do not attempt to dry the ink with a hair dryer or by exposing printed sheets to direct sunlight.

■ Storing Printed Output

- Do not store or display printouts in hot, damp or humid conditions. Never expose them to heat or direct sunlight.
- Store printouts in photo albums, photo frames or presentation binders to protect them from direct exposure to air or sunlight.
- Do not mount printouts in an adhesive-type album, as you may not be able to remove them.
- Be aware that some types of plastic folders and albums may cause the edges of the paper to turn yellow.

■ Printing Area

See [Printing Area](#)

 **Note** When you use Borderless Printing, create the data by using the same size as the paper size, and paste the data so that it fills the editing screen without leaving any margins. If you are using an application that allows you to set margins, set the left, right, top and bottom margins to 0 mm or 0 inches. For instructions on setting margins, refer to the user's manual for your application.



Glossy Photo Paper GP- 401

This paper is thicker than High Resolution Paper and has a glossy printing surface to produce printouts close to photograph quality. This media is available in A4/Letter, 4" x 6" / 101.6 x 152.4 mm and Credit Card sizes.

■ Loading

- Load the paper with the whiter side facing up.
- A maximum of 10 sheets can be loaded at once.
- Be sure to set the paper to portrait regardless of the direction to print.
- To prevent sheets from sticking to each other in the time of using A4/Letter paper, separate them from each other before loading them in the Auto Sheet Feeder. Load the necessary number of paper (a maximum of 10 sheets) in the Auto Sheet Feeder one at a time.
- Set the Paper Thickness Lever (gray) to the right.

■ Printer Driver Settings

- **Media Type:** Glossy Photo Paper
- **Page Size:** Ensure that the setting matches the size set in the application.

■ Handling of Printed Output

- Remove each sheet as soon as it is printed.
- Do not touch the printed surface nor stack the printed sheets until the ink is fixed (approx. two minutes).

■ Printing Area

See [Printing Area](#)

 **Note** When you use Borderless Printing, create the data by using the same size as the paper size, and paste the data so that it fills the editing screen without leaving any margins. If you are using an application that allows you to set margins, set the left, right, top and bottom margins to 0 mm or 0 inches. For instructions on setting margins, refer to the user's manual for your application.



High Resolution Paper HR-101N

This type of paper provides better color reproduction than plain paper. It is suitable for printing business documents that feature graphics, and printing photographs. This media is available in A4 / Letter size.

■ Loading

- Load the paper with the whiter side facing up.
- Do not load paper higher than the limit mark. A maximum of 10 sheets can be loaded.
- Set the Paper Thickness Lever (gray) to the right.

■ Printer Driver Settings

- **Media Type:** High Resolution Paper
- **Page Size:** Ensure that the setting matches the size set in the application.

■ Handling of Printed Output

Do not stack more than 10 sheets in the Paper Output Slot Cover. If the output paper is curled, it may prevent the next sheet being ejected. In this case, or if the ink takes a long time to dry, remove each sheet as soon as it is printed.

■ Printing Area

See [Printing Area](#)



T-Shirt Transfers TR-301

This paper is used to create iron-on transfers. The image is printed backwards when **Media Type** is set to **T-Shirt Transfers** in the printer driver.

 **Note** For the customers in the United States, use the T-Shirt Transfers TR-101.

■ Loading

- Load the paper with the side that does not have green lines facing up.
- Load only one sheet at a time.
- Set the Paper Thickness Lever (gray) to the left.
- If the T-Shirt Transfer is curled, flatten it by curling it in the opposite direction.

■ Printer Driver Settings

- **Media Type:** T-Shirt Transfers
- **Page Size:** Ensure that the setting matches the size set in the application.

■ Handling of Printed Output

- Remove each sheet as soon as it is printed.
- The T-Shirt Transfer should be used as soon as possible. Refer to the supplied instructions for details on how to use the paper.

■ Printing Area

See [Printing Area](#)



Transparencies CF-102

This film is ideal for printing presentation material for use with overhead projectors.

■ Loading

- Place one sheet of plain A4/Letter paper under the transparencies in the Auto Sheet Feeder.
- A maximum of 10 sheets can be loaded at once.
- Set the Paper Thickness Lever (gray) to the right.
- To prevent sheets from sticking to each other, separate them from each other before loading them in the Auto Sheet Feeder. Load the necessary number of paper (a maximum of 10 sheets) in the Auto Sheet Feeder one at a time.

■ Printer Driver Settings

- **Media Type:** Transparencies
- **Page Size:** Ensure that the setting matches the size set in the application.

■ Handling of Printed Output

- Remove each sheet as soon as it is printed.
- Do not touch the printed surface until the ink is fixed (approx. 15 minutes).

■ Printing Area

See [Printing Area](#)



Photo Stickers PS-101

Photo Stickers PS-101 is a peel-and-stick sheet that allows you to make your original stickers using your favorite photo. It is a glossy sheet and is highly resistant to water. On each sheet, you can print 16 photo stickers with excellent printing quality. This media is available in the size of 4" x 6" / 101.6 x 152.4 mm.

■ Loading

- Load each sheet with the glossy side up. Printing on the back side can stain the inside of the printer or your clothes.
- Place the sheet in portrait in such a manner that the top margin is larger than the bottom margin. For more information, refer to the instructions on the back of the sheet package.
- Load one sheet at a time.
- If a sheet is curled, uncurl it before loading.
- Do not use a sheet from which stickers are going to come off or you have peeled off stickers.
- Set the Paper Thickness Lever (gray) to the right.

■ Printer Driver Settings

- **Media Type:** Photo Paper Plus Glossy
- **Page Size:** 4" x 6" / 101.6 x 152.4 mm

■ Handling of Printed Output

- Remove each sheet as soon as it is printed.

 **Note** When printing a Photo Stickers (PS101) sheet, it is recommended using the PhotoRecord (v2.2 or later) provided with the printer. It is easily printed by selecting "16-Sticker Label" from "Perforated Paper" menu in the "Select Printer & Album Type" of the PhotoRecord (Windows only).



Envelopes

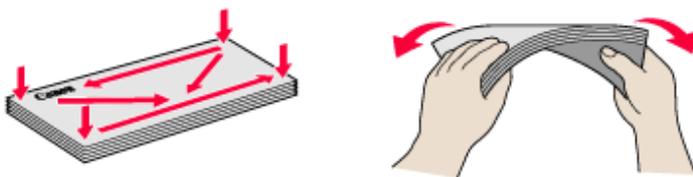
Use either European DL or US Com. #10 size envelopes.

■ Preparation for Printing

1 Press down on all four corners and edges of the envelopes to flatten them as shown in 2 below.

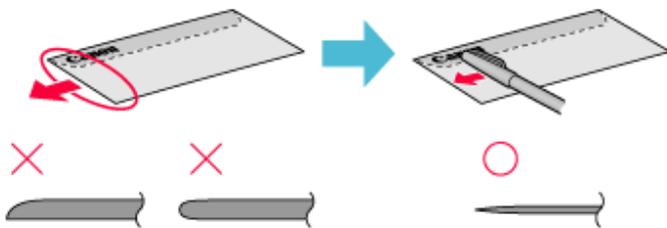
2 If the envelopes are curled, hold the opposite corners and gently bend them in the opposite direction.

Ensure that the flap of the envelope is perfectly straight.



3 If the leading edge of an envelope is puffed up or curled, use a pen to press the envelope flat and sharpen the crease.

Press the envelope completely flat, working from the middle to the edge.



* The above illustrations show a side view of the leading edge of the envelope.

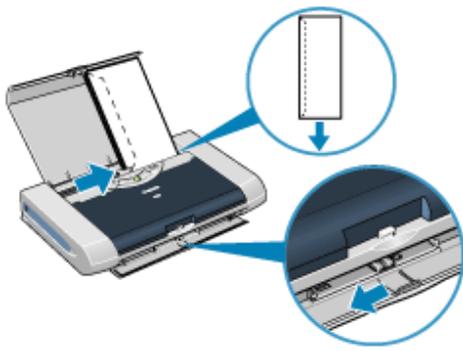
Envelopes may jam in the printer if they are not completely flat and the edges are not aligned. Ensure that no curl or puff exceeds 3 mm (0.1 in).

■ Unsuitable Envelopes

- Envelopes with an embossed or treated surface
- Envelopes with a double flap or pressure seals
- Envelopes with sticker flaps

■ Loading

- Place envelopes lengthwise with the flap to the left and the address side facing upwards.
- A maximum of 5 envelopes can be loaded at once.



- Set the Paper Thickness Lever (gray) to the left.

 **Note** If the envelopes do not feed properly, even after removing curl, clean the Paper Feed Roller.

See [Paper Does Not Feed Properly or Paper Jams](#)

Also, if you decrease the number of paper loaded, it may be fed successfully.

■ Printer Driver Settings

- **Media Type:** Envelope
- **Page Size:** Select either **DL Env.** or **#10 Env.** according to the envelope size you are using.
- **Orientation:** Landscape

■ Handling of Printed Output

Do not stack more than 5 sheets in the Paper Output Slot Cover.

■ Printing Area

See [Printing Area](#)



Checking the Status of the Printer



BJ Status Monitor Functions

The BJ Status Monitor allows you to check the status of the printer.

If an error occurs, the status monitor indicates the nature of the error and suggests an appropriate solution.

The status monitor also checks the ink tanks or battery and displays a warning message when the ink or battery charge level is low.

Note In Windows XP or Windows 2000

The BJ Status Monitor screen is not displayed when infrared communications are used.

■ Launching the BJ Status Monitor

The BJ Status Monitor launches automatically when data is sent to the printer. When launched, the BJ Status Monitor appears as an icon on the Task Bar.

1 Click the **Canon iP90** button (or **BJ Status Monitor**) on the Task Bar.



The BJ Status Monitor appears.



 **Note** To open the BJ Status Monitor when the printer is not printing, click the **Maintenance** tab in the Printer Properties dialog box and click the **Start Status Monitor** button.

See [Opening the Printer Properties Dialog Box](#)

■ When errors occur

The error message dialog is automatically displayed when an error occurs, e.g. if the printer runs out of paper or if the ink is low.

In such cases, take the appropriate action as described.

 **Note** For details on the BJ Status Monitor, select the **Help** menu and click on the topic of interest.



Printer Setup Utility (or Print Center)

The Printer Setup Utility (or Print Center) allows you to check the progress of your print job.

If you are using an OS other than Mac OS X v.10.3, you can use the Print Center to check the progress of your print job.

■ Opening the Printer Setup Utility (or Print Center)

- Opening from the Finder

1 Select Applications from the Go menu.

2 Double-click the Utilities folder, and then double-click the Printer Setup Utility icon.

If you are using an OS other than Mac OS X v.10.3, double-click the Utilities folder, and then double-click the Print Center icon.

The Printer List opens.



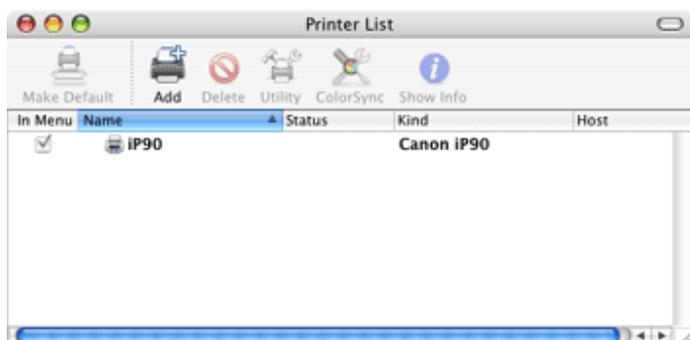
- Opening from an Application

1 Open the Print dialog box.

See [Opening the Print Dialog Box](#)

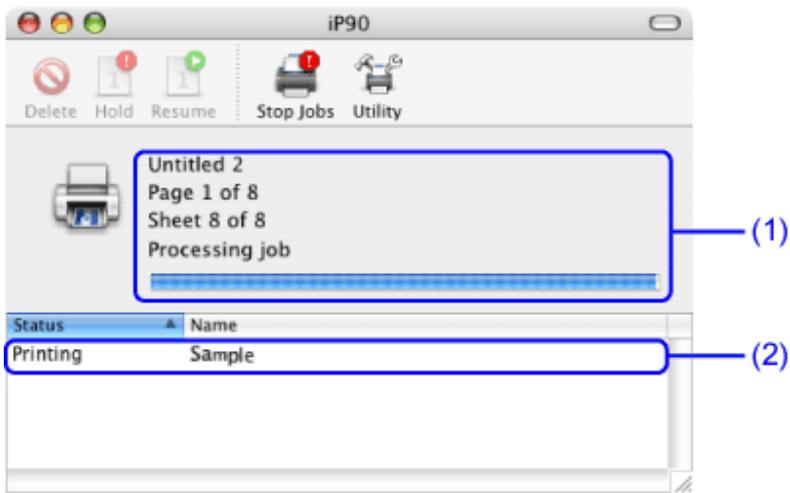
2 Select Edit Printer List from the Printer pop-up menu.

The Printer List opens.



■ Checking the Progress of Print Jobs

Double-click the printer name displayed in the Name list to check the progress of print jobs.



(1) The status of the printer and information about the document being printed are displayed.

(2) Information about the documents being printed and queued for printing is displayed.

 ...Cancels printing of the specified document.

 ...Pauses printing of the specified document.

 ...Resumes printing of the specified document.

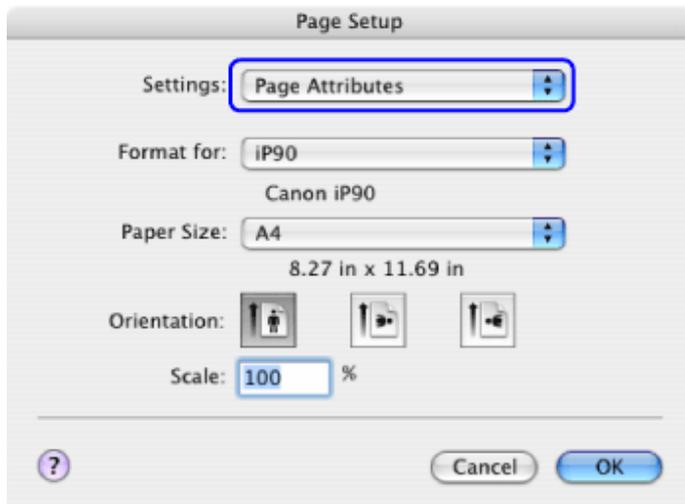
 ...Pauses printing of all documents. Upon clicking, the icon turns to  (Start Jobs), which is to resume printing of all documents.



Printer Driver Functions

■ Opening the Page Setup Dialog Box

To open the **Page Setup** dialog box, select **Page Setup** from the **File** menu in your application program.



The displays on the **Page Setup** dialog box are changed by pop-up menus that you can scroll through. From the **Settings** pop-up menu, you can select the following items.

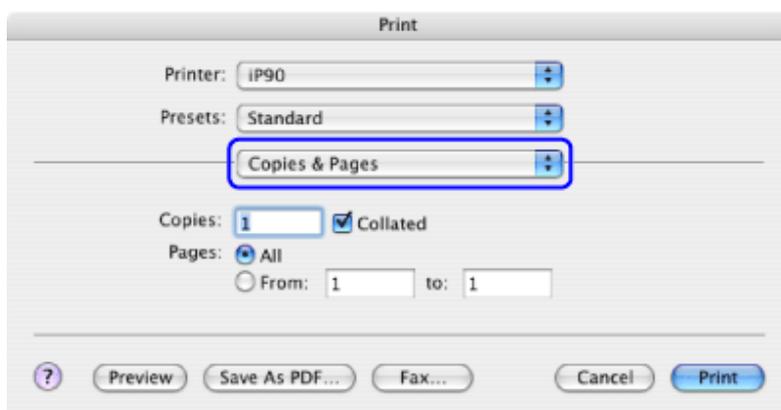
See [Page Attributes \(Page Setup Dialog Box\)](#)

See [Custom Paper Size \(Page Setup Dialog Box\)](#)

See [Summary \(Page Setup Dialog Box\)](#)

■ Opening the Print Dialog Box

To open the **Print** dialog box, select **Print** from the **File** menu in your application program.



The displays on the **Print** dialog box are changed by pop-up menus that you can scroll through. From the pop-up menus, you can select the following items.

See [Copies & Pages \(Print Dialog Box\)](#)

See [Layout \(Print Dialog Box\)](#)

See [Output Options \(Print Dialog Box\)](#)

See [Paper Handling \(Print Dialog Box\) \(Mac OS X v.10.3 Only\)](#)

See [ColorSync \(Print Dialog Box\) \(Mac OS X v.10.3 Only\)](#)

See [Quality & Media \(Print Dialog Box\)](#)

See [Color Options \(Print Dialog Box\)](#)

See [Special Effects \(Print Dialog Box\)](#)

See [Borderless Printing \(Print Dialog Box\)](#)

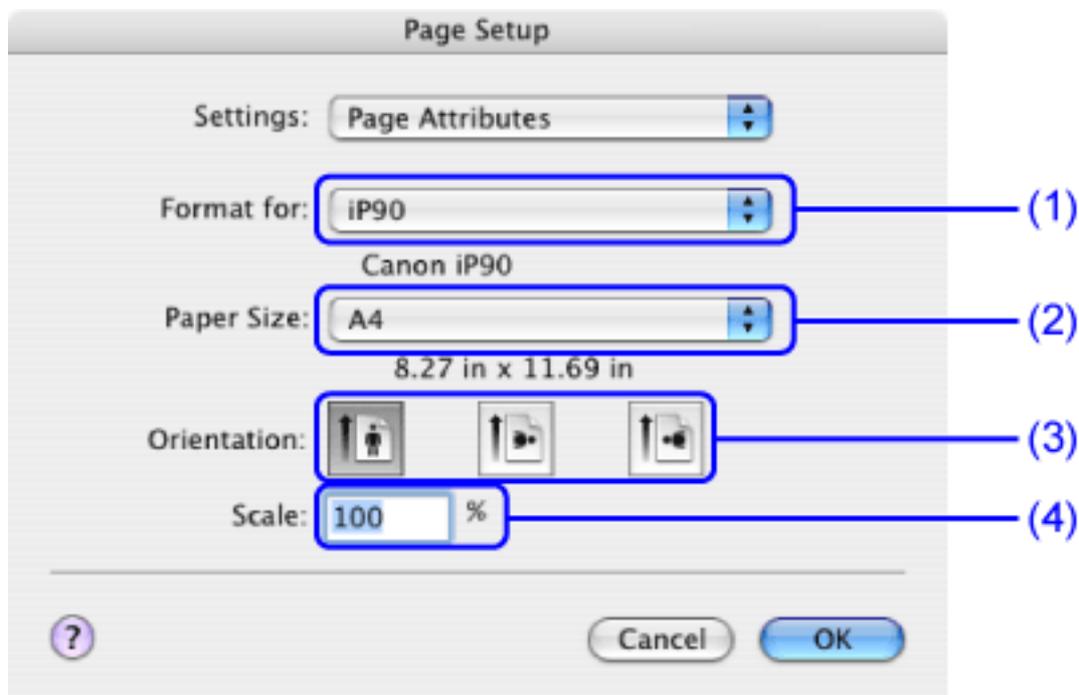
See [Margin \(Print Dialog Box\)](#)

See [Summary \(Print Dialog Box\)](#)



■ Page Attributes (Page Setup Dialog Box)

If you select **Page Attributes** from **Settings** in the **Page Setup** dialog box, you can change the paper size and scaling options.



(1) Format for

Select the name of the printer you are using.

(2) Paper Size

Select the paper size for the print job. To enter the size manually, select Custom Paper Size from Settings.

(3) Orientation

Select the direction of the print job. In the Landscape orientation, you can further select to flip the print job to match the paper you are printing on.

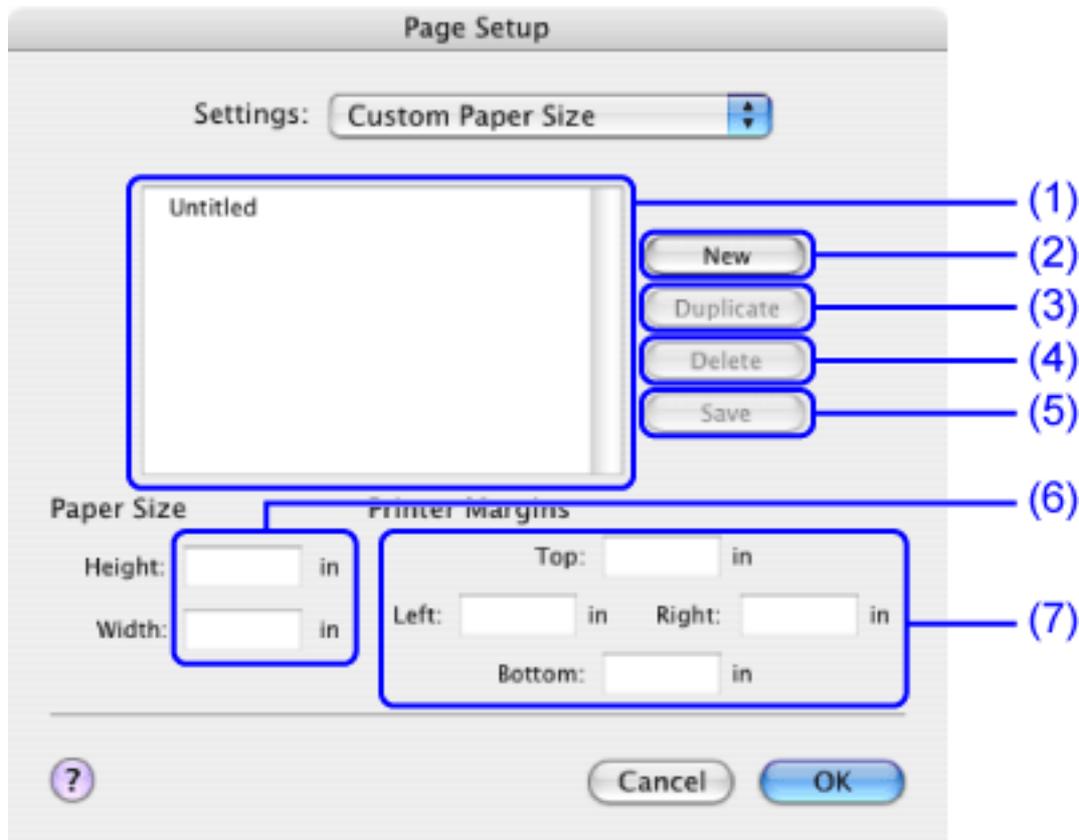
(4) Scale

Specify the scaling percentage to resize the document for printing.



■ Custom Paper Size (Page Setup Dialog Box)

If you select **Custom Paper Size** from **Settings** in the **Page Setup** dialog box, you can specify nonstandard paper sizes.



(1) Summary

A list of all saved paper sizes is displayed.

(2) New

Click to enter the name of the new paper size.

First, **Untitled** will be added to **Summary**, then you can enter any paper size name.

(3) Duplicate

Click to duplicate an existing paper size name.

(4) Delete

Click to delete unwanted paper size names. Select the paper size name from **Summary** and then click **Delete**.

(5) Save

Click to save the settings specified in this dialog box.

The saved paper size name will be registered as a **Paper Size** option in

the **Page Setup** dialog box.

(6) Paper Size

Set the height and width of the custom paper size.

The ranges your printer can handle are 3.39 to 23.0 in. (86.0 to 584.2 mm) for height and 2.13 to 8.50 in. (54.0 to 215.9 mm) for width.

(7) Printer Margins

Set the margins for the custom paper size.

The minimum margins are;

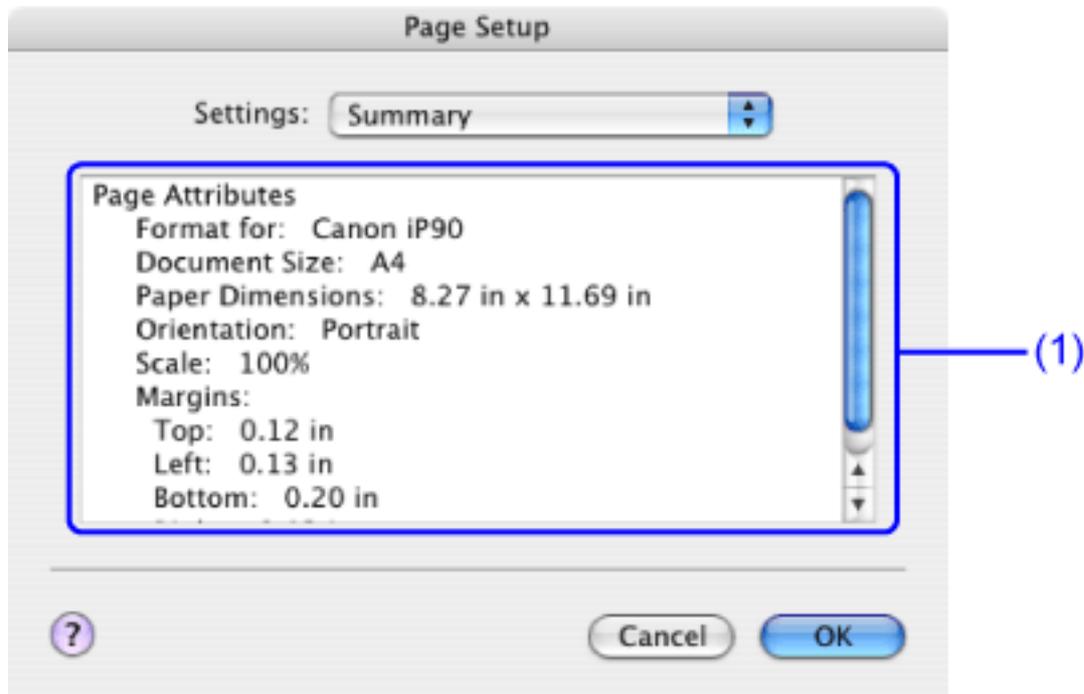
Top 0.12 in. (0.3 cm), Bottom 0.2 in. (0.5 cm), Left 0.13 in. (0.34 cm), and Right 0.13 in. (0.34cm).

Set your margins to values above these.



■ Summary (Page Setup Dialog Box)

If you select **Summary** from **Settings** in the **Page Setup** dialog box, you can check the settings of the page attributes.



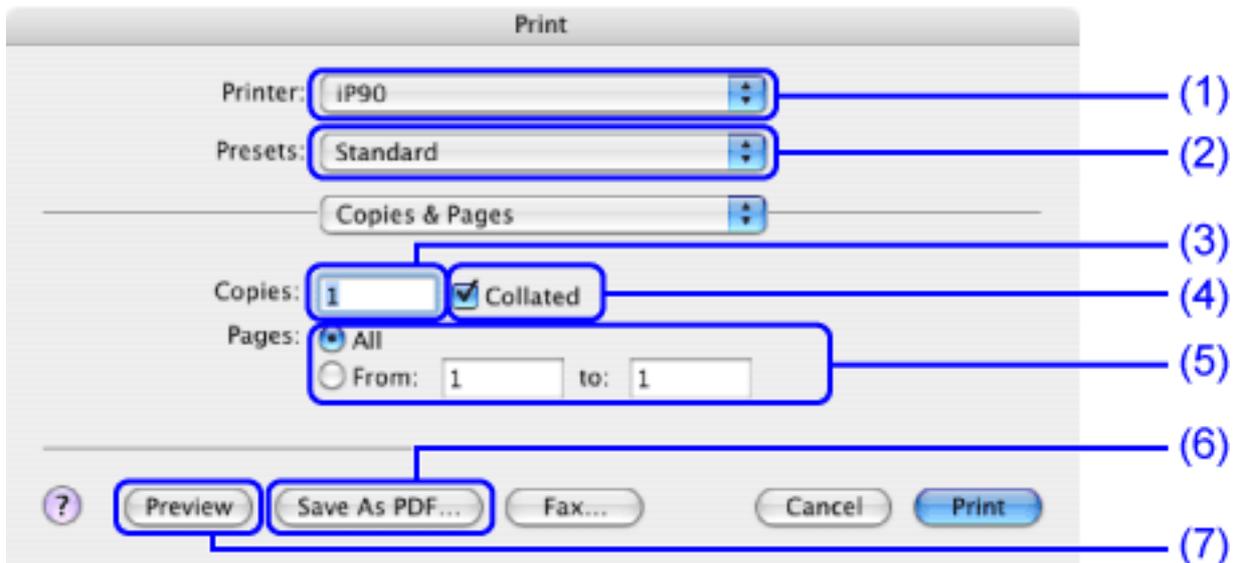
(1) Page Attributes Summary

Displays the contents of the settings specified in the **Page Setup** dialog box.



■ Copies & Pages (Print Dialog Box)

If you select **Copies & Pages** from the pop-up menu in the **Print** dialog box, you can set the number of copies to print, collated printing, and a range for printing pages.



(1) Printer

Select the name of the printer you are using.

If you select **Edit Printer List**, the Print Center starts.

(2) Presets

Save and delete **Print** dialog settings.

(3) Copies

Enter the number of copies to print.

(4) Collated

Select to print multiple copies of the document one copy at a time.

(5) Pages

To print all pages, select **All**.

To print a range of pages, enter the starting and ending pages in **From** and **to**.

(6) Save as PDF

Saves the document as a PDF (Portable Document Format) file.

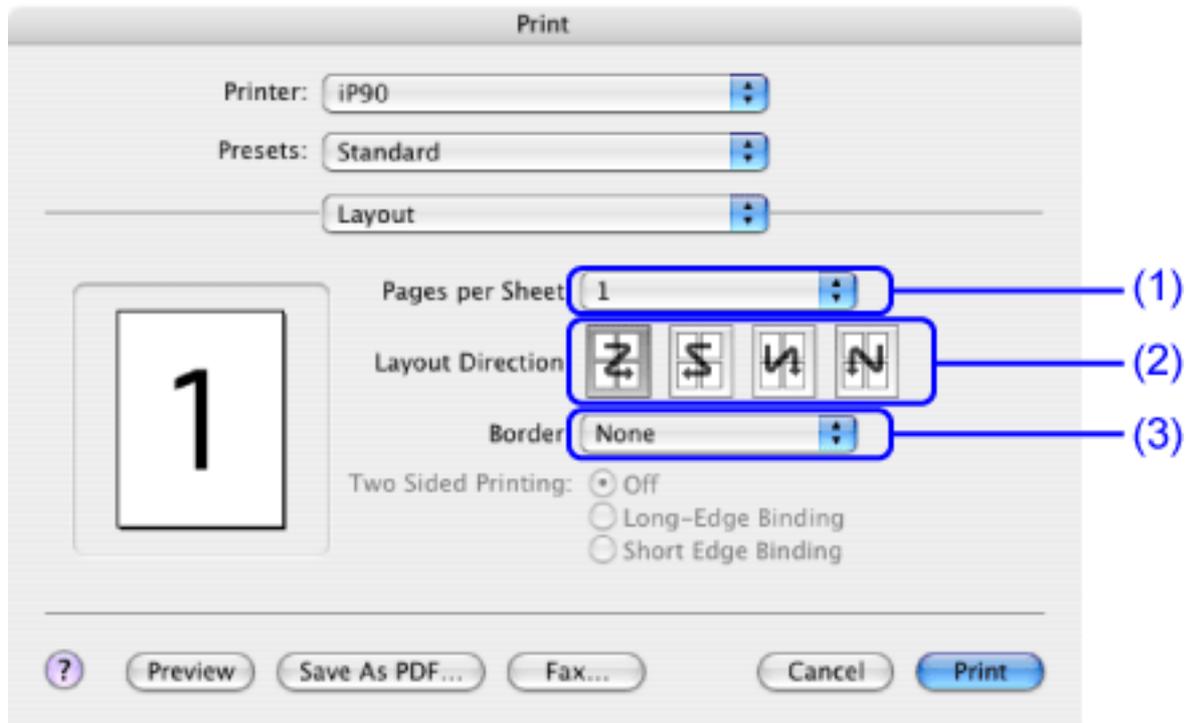
(7) Preview

Previews the appearance of the document to be printed, before printing.



■ Layout (Print Dialog Box)

If you select **Layout** from the pop-up menu in the **Print** dialog box, you can specify the page layout printing settings.



(1) Pages per Sheet

Select the number of pages of the document to appear on one page.

(2) Layout Direction

If you select more than 2 pages to be printed at a reduced size on one page, select the page order.

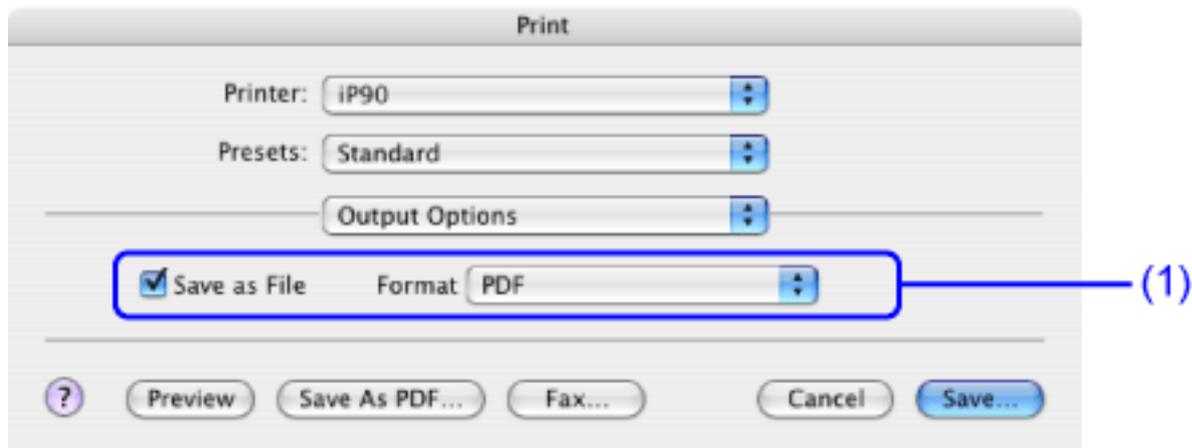
(3) Border

Select the type and width of line to create borders around the pages.



■ Output Options (Print Dialog Box)

If you select **Output Options** from the pop-up menu in the **Print** dialog box, you can save the document as a PDF (Portable Document Format) file.



(1) Save as File

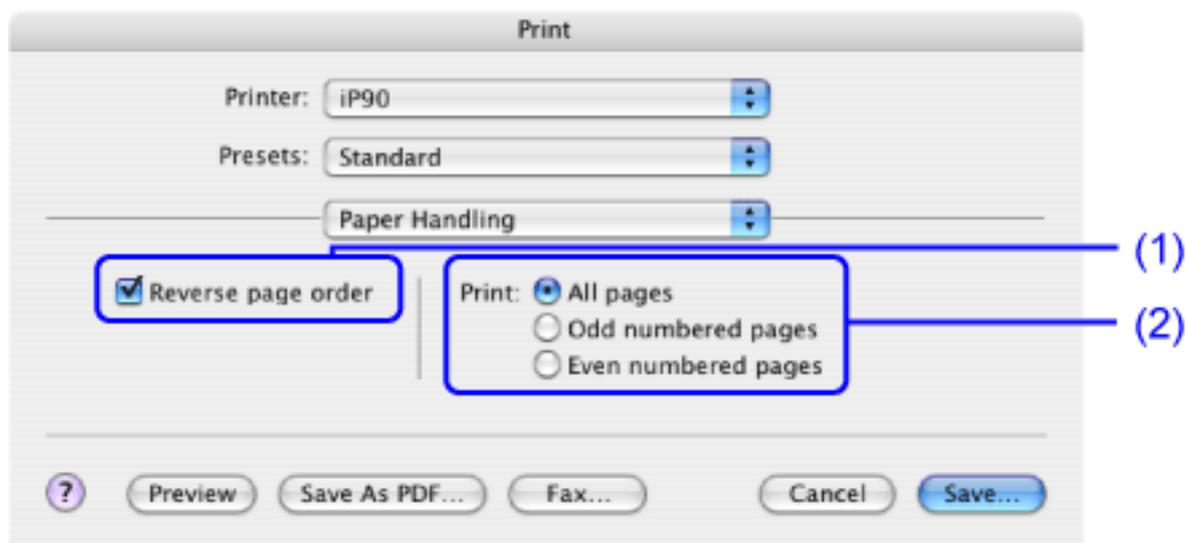
If you check the **Save as File** check box, you can select **PDF** as **Format**. When you click **Save**, a dialog box for specifying the file name and location opens.

You can also save the document as a PDF file by clicking **Save as PDF** in the **Print** dialog box.



■ Paper Handling (Print Dialog Box) (Mac OS X v.10.3 Only)

If you select **Paper Handling** from the pop-up menu in the **Print** dialog box, you can specify the page printing order and the pages to be printed out.



(1) Reverse page order

A document having multiple pages is printed starting with the last page.

(2) Print

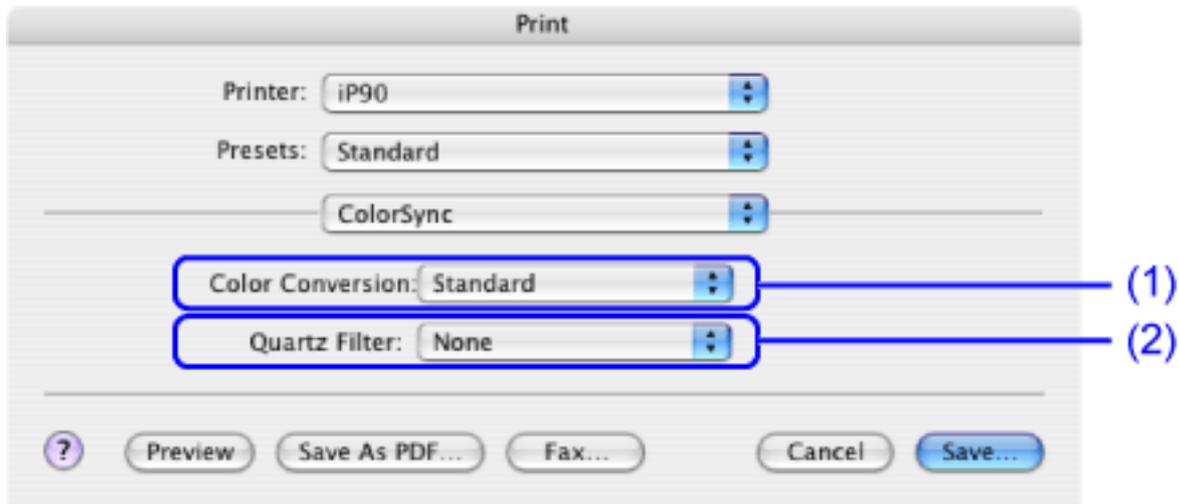
To print all pages of a document, select **All pages**.

To print only even-numbered pages or odd-numbered pages, select **Odd numbered pages** or **Even numbered pages**.



■ ColorSync (Print Dialog Box) (Mac OS X v.10.3 Only)

If you select **ColorSync** from the pop-up menu in the **Print** dialog box, you can adjust color using ColorSync.



(1) Color Conversion

Select **Standard** to perform color management with the application.
Select **In Printer** to perform color management with the printer.

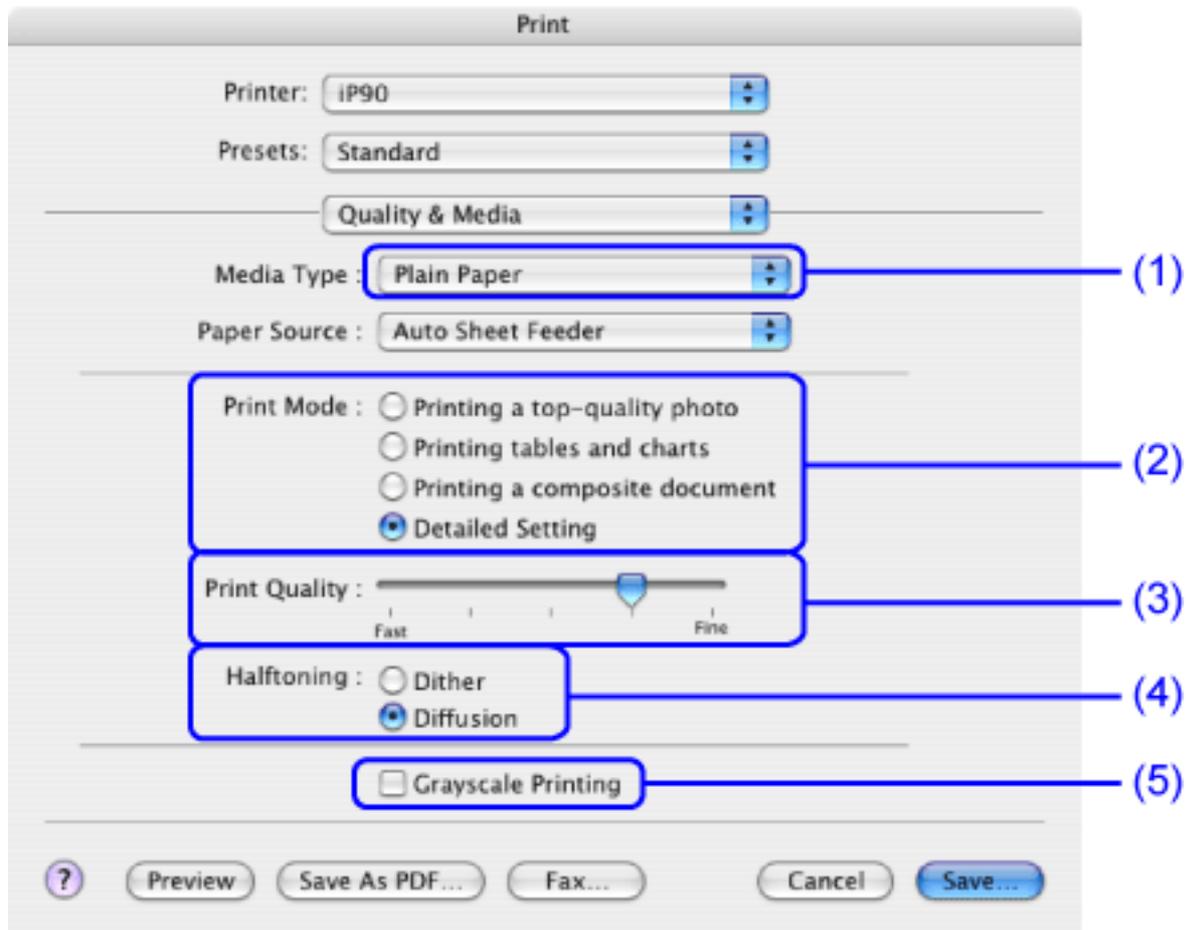
(2) Quartz Filter

Selecting a Quartz Filter allows you to change only the print result without changing the document data.



■ Quality & Media (Print Dialog Box)

If you select **Quality & Media** from the pop-up menu in the **Print** dialog box, you can specify the settings for basic printing appropriate to your printer.



(1) Media Type

Ensure that this setting matches the media loaded in the printer.

(2) Print Mode

Select the print mode appropriate to your document. If you select **Detailed Setting**, you can set **Print Quality** and **Halftoning**.

(3) Print Quality

This control appears when you select **Detailed Setting** from **Print Mode**.

Move the slide bar to adjust the balance between print quality and print speed.

Moving the bar to the right enhances print quality, and moving it to the left increases the printing speed.

(4) Halftoning

This control appears when you select **Detailed Setting** from **Print Mode**.

Set halftoning method.

Select either **Dither** or **Diffusion** ink dot configurations.

Dither is a suitable method to print pictures and graphs where you wish to clearly define the difference between colors.

Diffusion is a suitable method to print graphics and photographs where there are subtle color gradations.

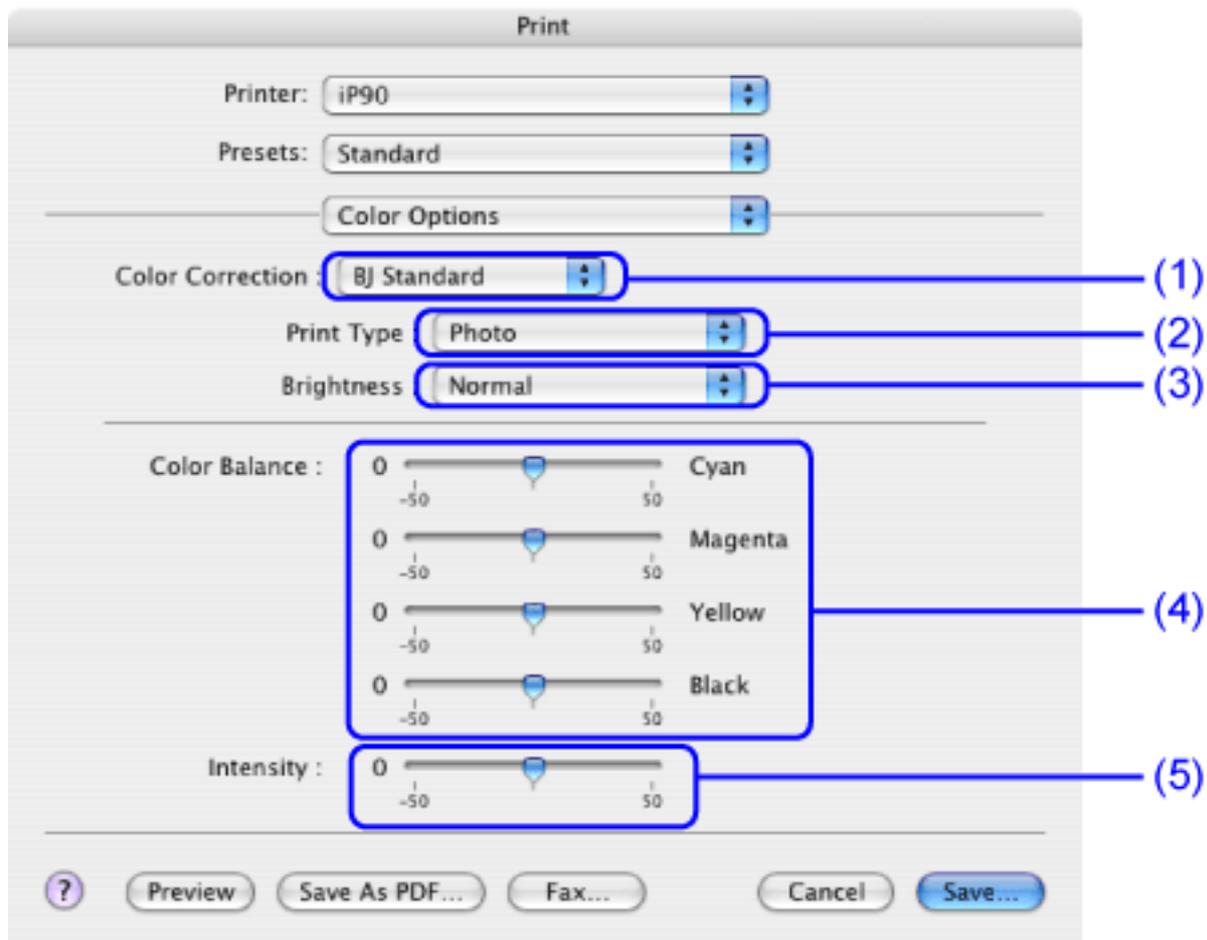
(5) Grayscale Printing

Select to print a grayscale version (black and white) of a color document.



■ Color Options (Print Dialog Box)

If you select **Color Options** from the pop-up menu in the **Print** dialog box, you can adjust the colors on your document as you like.



(1) Color Correction

Select a Color Correction method: **BJ Standard** , **ColorSync** , or **None**.

If you select **BJ Standard** , the optimum color correction for this printer will be used. This is the recommended setting.

If you select **ColorSync** , ColorSync color correction will be used. If you select None, no color correction will be used.

(2) Print Type

Select either **Photo** or **Graphic** , based on the type of your document.

(3) Brightness

Select the level of brightness to use for your document to print.

(4) Color Balance

Move the slide bar to adjust each color. Moving the bar to the right

strengthens the color, and moving it to the left weakens the color.

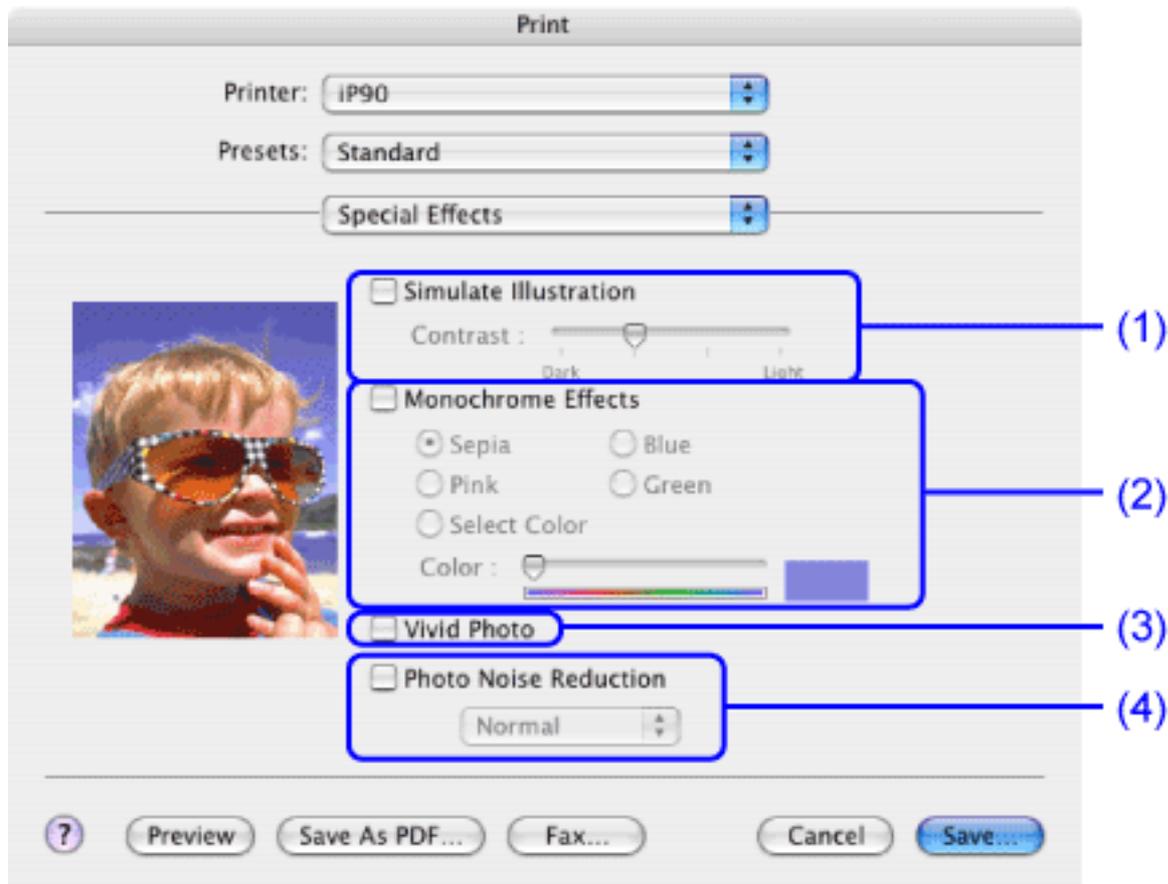
(5) Intensity

Move the slide bar to adjust the print intensity. Moving the bar to the right makes the printing darker, and moving it to the left makes the printing lighter.



■ Special Effects (Print Dialog Box)

If you select **Special Effects** from the pop-up menu in the **Print** dialog box, you can edit or optimize photos and other graphics data.



(1) Simulate Illustration

This function manipulates color images with certain effects. Adjust the brightness of the image with the Contrast slide bar.

(2) Monochrome Effects

Prints a color image in a single color. Choose a color or use a custom color using **Select Color**.

(3) Vivid Photo

By using this function, you can reproduce breathtaking sceneries, where colors, especially blues and greens, appear even more vibrant. A major feature of this function is its ability to create vivid backgrounds of fields, trees, oceans and skies, while maintaining the natural skin tones of people that appear in the images.

(4) Photo Noise Reduction

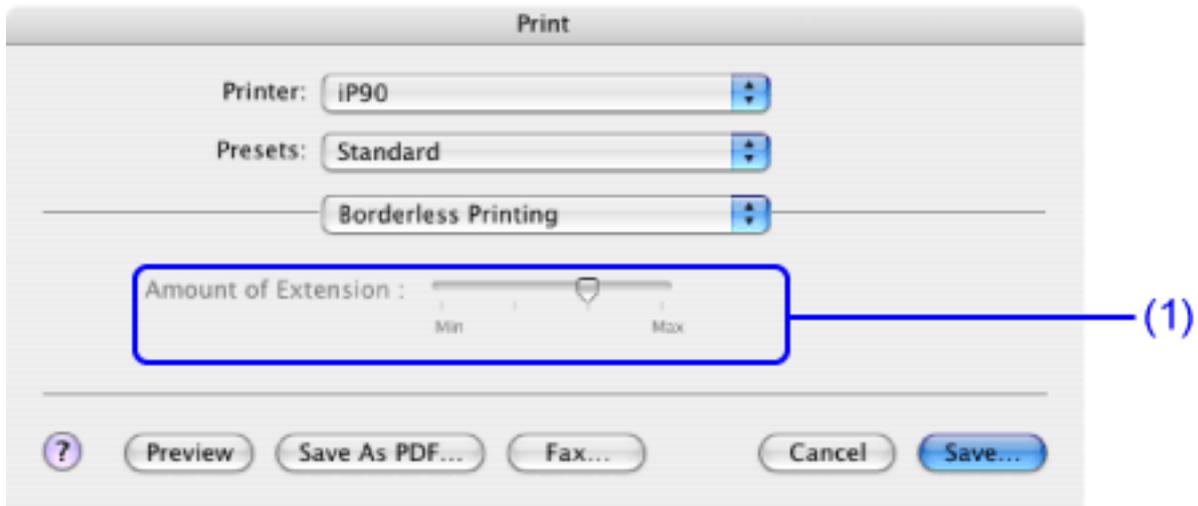
When printing images recorded with your digital cameras, blue skies may be dappled or dark appearing rough. You can reduce this effect

with the Photo Noise Reduction function. Using this function with photographs other than those taken with a digital camera may cause the images to be disturbed.



■ Borderless Printing (Print Dialog Box)

If you select **Borderless Printing** from the pop-up menu in the **Print** dialog box, you can print the entire paper surface, so that no margins are left on the four sides of the paper.



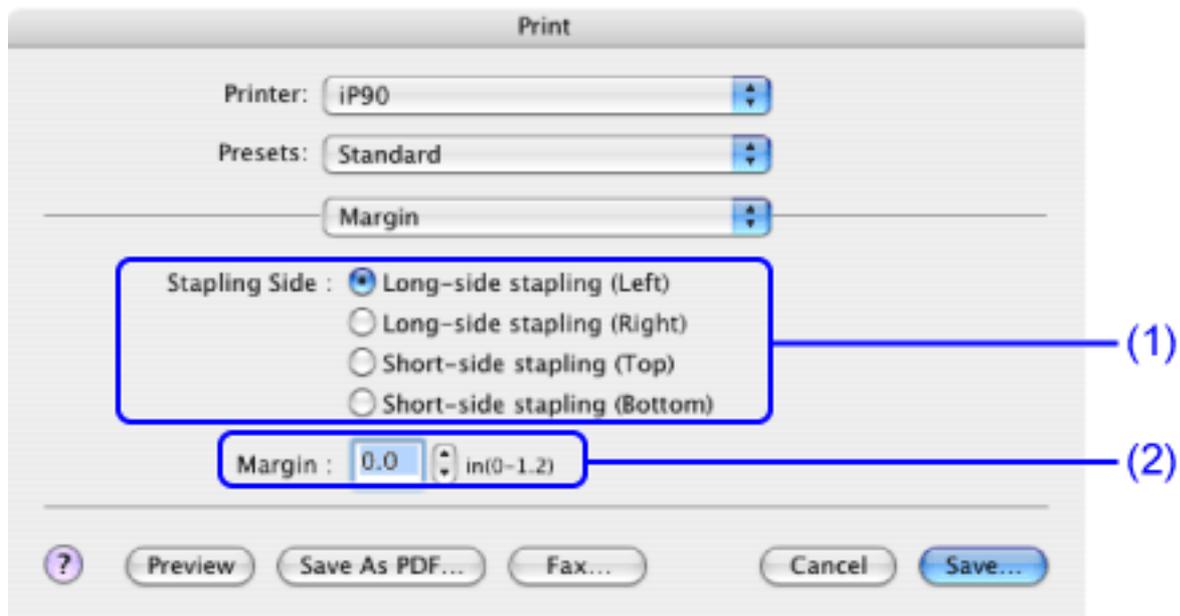
(1) Amount of Extension

When you select Borderless Printing, the sections that extend beyond the paper are not printed because the image is enlarged to a paper size slightly larger than the paper size. You can use a slide bar to adjust how much the image extends beyond the paper. Usually, you need not to adjust this setting. If you move the slide bar to the left to reduce the extension amount, a border may appear.



■ Margin (Print Dialog Box)

If you select **Margin** from the pop-up menu in the **Print** dialog box, you can set a staple margin.



(1) Stapling Side

Select a stapling side from Left, Right, Top, and Bottom.

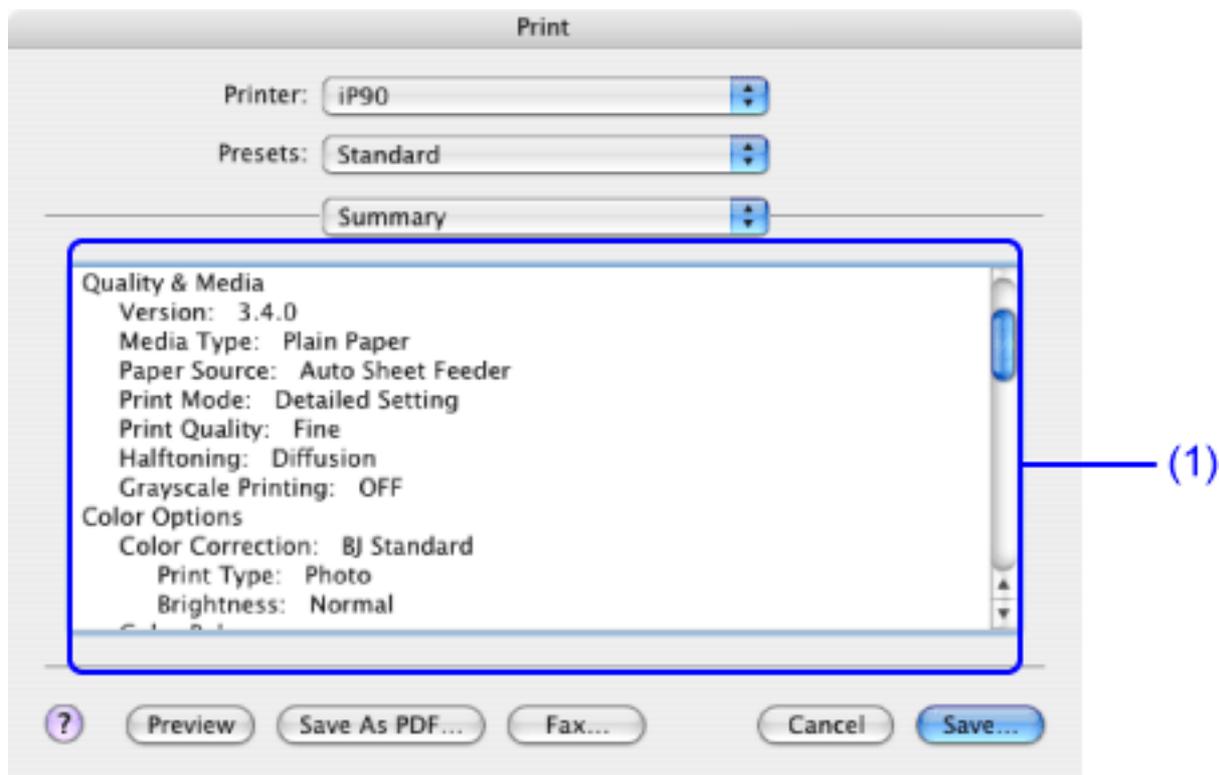
(2) Margin

Specify the staple margin with a value between 0 mm and 30 mm.



■ Summary (Print Dialog Box)

If you select **Summary** from the pop-up menu in the **Print** dialog box, you can confirm the print settings made in the **Print** dialog box.



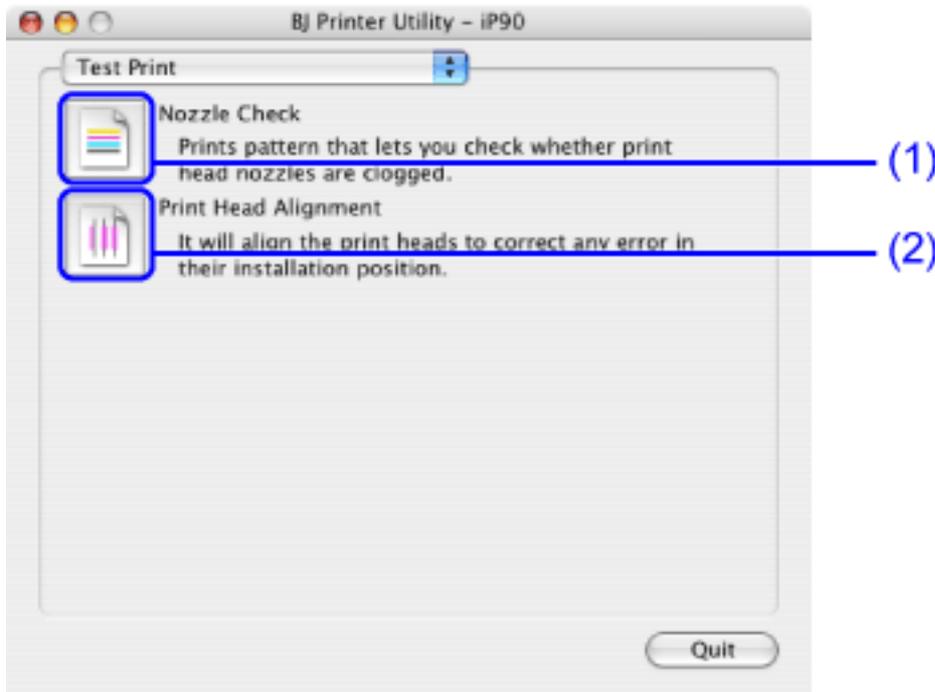
(1) Summary

A summary of the print settings is displayed.



■ Test Print

If you print the Nozzle Check pattern, you can check whether the Print Head Nozzles are ejecting ink properly. If colors are not printing properly, the Print Head Alignment may improve the problem.



(1) Nozzle Check

Prints a nozzle check pattern to ensure that the Print Head Nozzles are ejecting ink properly.

See [Printing the Nozzle Check Pattern](#)

(2) Print Head Alignment

Aligns the Print Head.

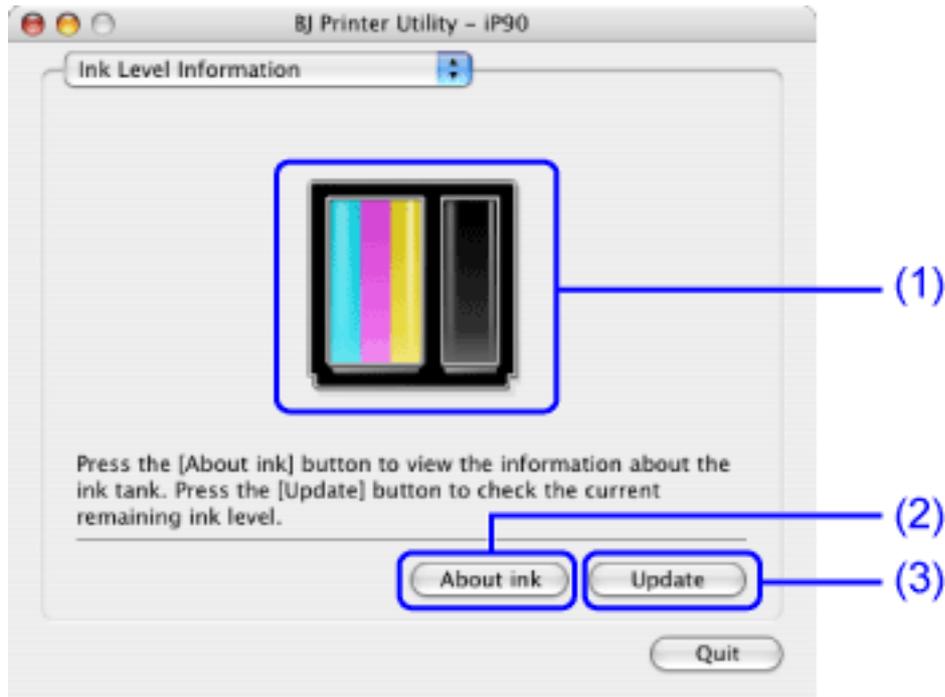
Print Head Alignment is required when the print result is unsatisfactory (e.g., displaced ruled lines).

See [Aligning the Print Head](#)



■ Ink Level Information

Displays the remaining level of ink in the printer you are using.



(1) Ink Level

Displays the ink level.

(2) About Ink

Click to display the ink tanks information of your printer.

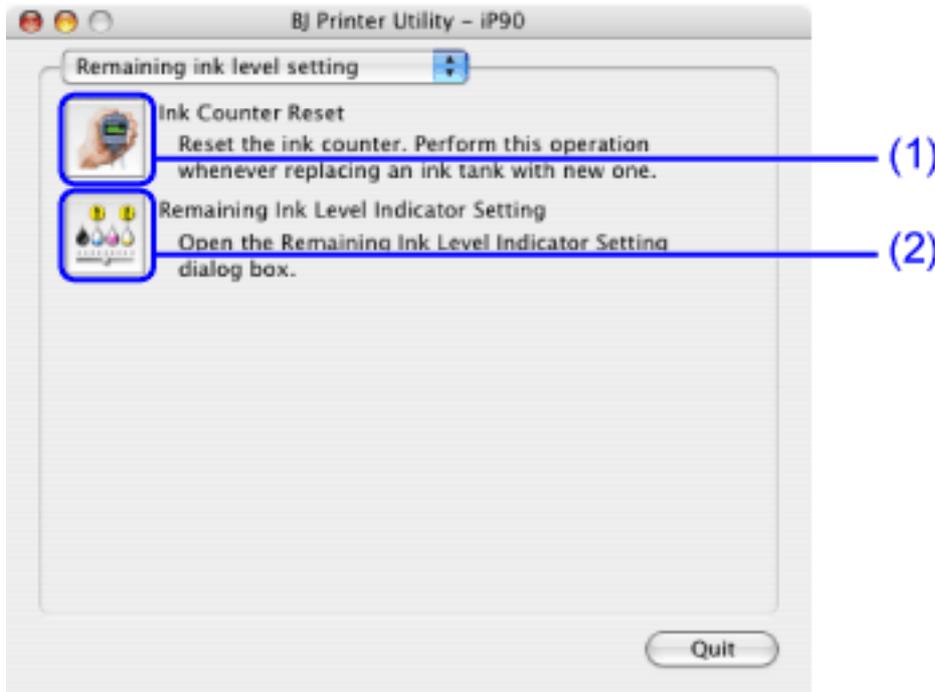
(3) Update

Click to check the current remaining ink level.



■ Remaining Ink Level Setting

When you replace the ink tank or you wish to see the Ink Level Information, follow the procedure below.



(1) Ink Counter Reset

Resets the ink counter to an initial value. If you click here, the **Ink Counter Reset** panel opens. Next, click the **Black Ink Tank** check box or **Color Ink Tank** check box and click **OK**.

Important Reset the ink counter whenever installing a new ink tank. If you do not reset the ink counter the **Ink Level Information** will not display properly.

(2) Remaining Ink Level Indicator Setting

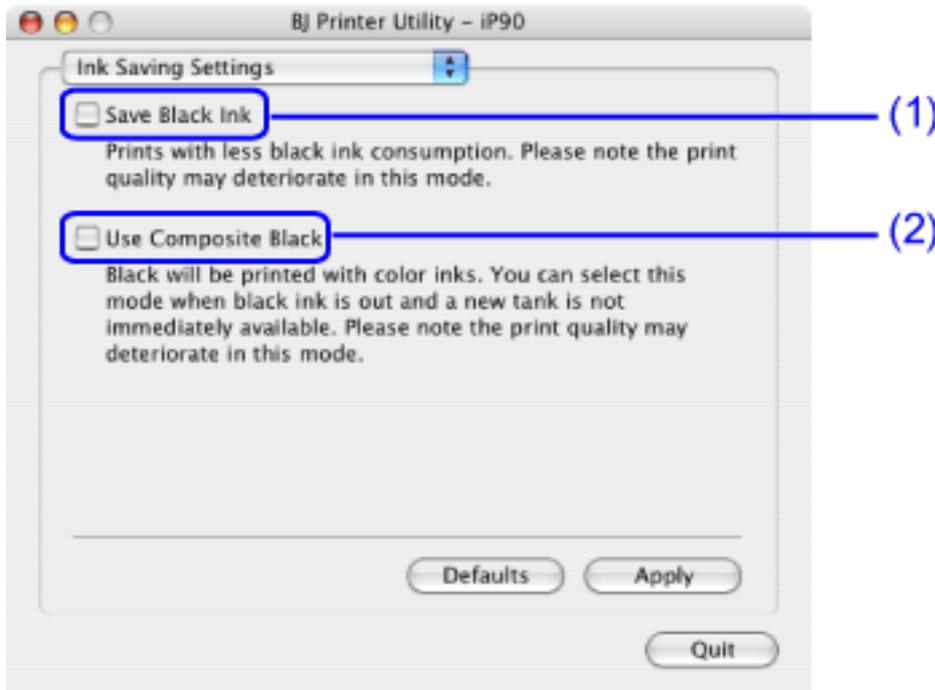
Sets whether the Ink Level Information will display or not.

Important As the default setting, **Display the Remaining Ink Level** is checked. If you uncheck this option, there is no need to reset the Ink Counter, however the remaining ink level will not display in the **Ink Level Information**.



■ Ink Saving Settings

You can be set as the mode which saves black ink. Moreover, when a black ink tank is empty and a new tank is not immediately available, you can change to the mode which can be printed only in color ink as an emergency measure.



(1) Save Black Ink

Print with less ink consumption.

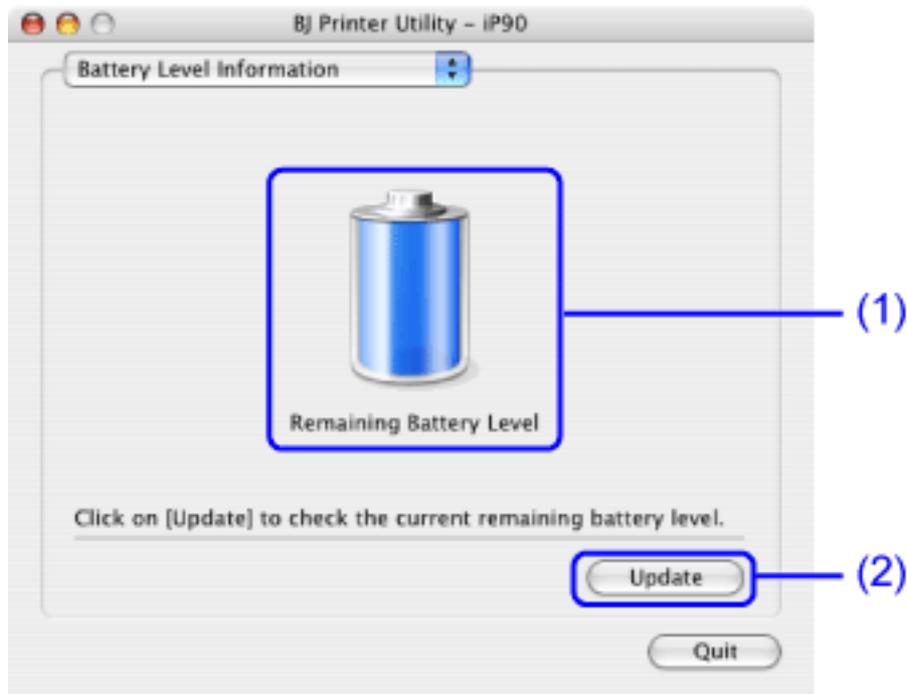
(2) Use Composite Black

Black is printed in color ink, without using black ink. This option is utilize when there is no black ink.



■ Battery Level Information

Displays the charge level of the battery in your printer.



(1) Remaining Battery Level

Displays the battery level.

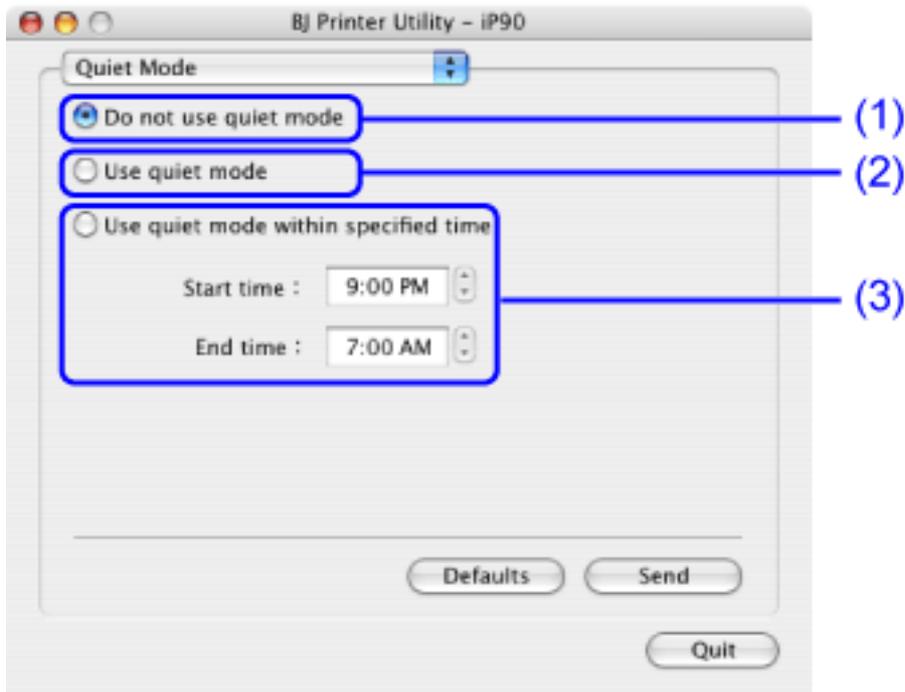
(2) Update

Click to check the current remaining battery level.



■ Quiet Mode

You can reduce the printing noise.



(1) Do not use quiet mode

The printing noise will be normal level.

(2) Use quiet mode

Reduces the printing noise.

(3) Use quiet mode within specified time

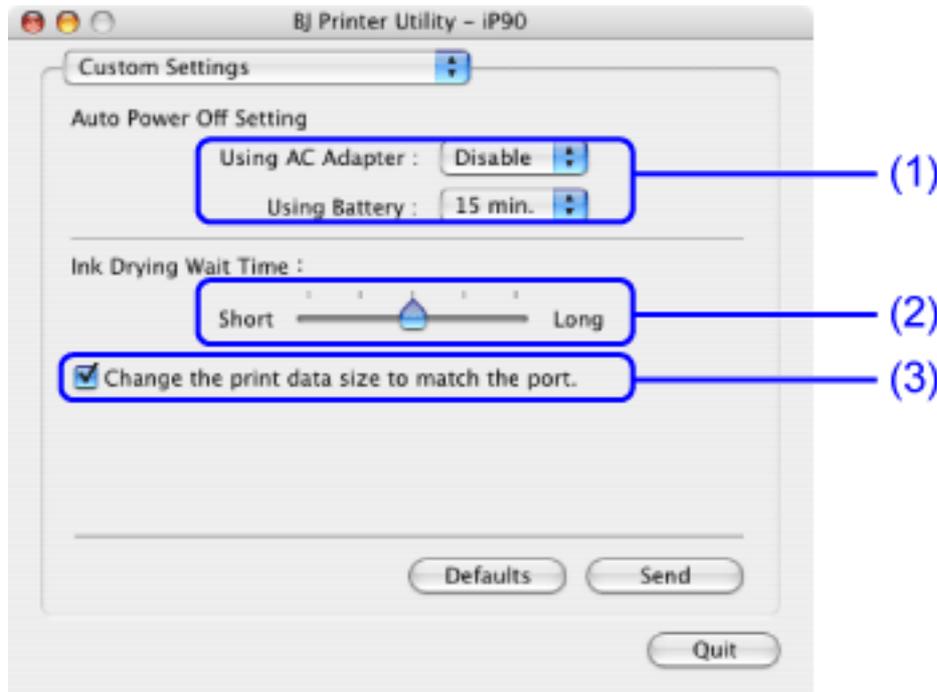
You can set the times during which the silent function is to be used.

 **Note** Sound reduction is not as effective when certain printing options are selected. If you use Quiet Mode, the print speed may be slower than normal.



■ Custom Settings

Changes the printer mode.



(1) Auto Power Off Setting

This allows you to turn the printer off when no data is sent to the printer for a certain period of time.

(2) Ink Drying Wait Time

You can set the time between printing pages. Moving the slide bar to the right lengthens the time and moving it to the left reduces the time between printing pages.

 **Note** If a printed page is not dry when the next page comes out of the printer, the back of the paper may be smudged. In this case, it may be beneficial to lengthen the time between printing pages. If you shorten the time between printing pages, print speed will increase.

(3) Change the print data size to match the port.

This setting allows you to shorten the print time. Especially if the printer is connected to a low-speed port such as an IrDA or Bluetooth option except for USB connection.



Routine Maintenance

When Printing Becomes Faint or Colors are Incorrect

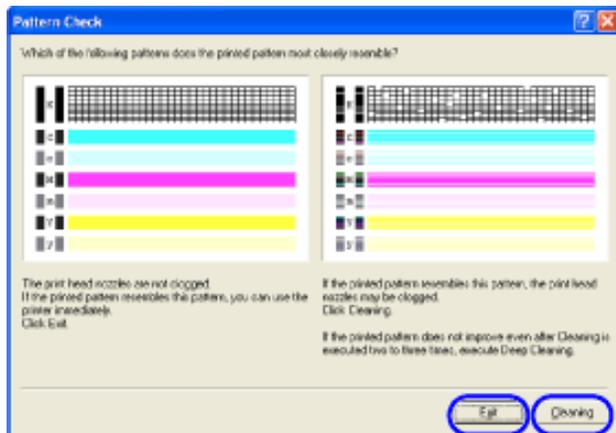
When printing becomes faint or colors are incorrect, the Print Head Nozzles are probably clogged. Follow the procedures below to clean the nozzles.

Note Before Performing Maintenance

- Push the  on the ink tank to ensure that it is firmly snapped into place.
See [Replacing an Ink Tank](#)
- Setting the Print Quality setting to High for Windows or Fine for Macintosh with the printer driver may improve the print quality.
See [Main Tab](#) (Windows), [Quality & Media \(Print Dialog Box\)](#) (Macintosh)

Step 1

See [Printing the Nozzle Check Pattern](#)



After Print Head Cleaning,
print the nozzle check pattern.

- (1) If the pattern is printed normally, click Exit.
- (2) If the print quality is poor, perform Print Head Cleaning.

Step 2

See [Print Head Cleaning](#)

If the problem remains after performing
Print Head Cleaning three times

Step 3

See [Print Head Deep Cleaning](#)

If the problem still remains

Step 4

See [Replacing an Ink Tank](#)



 **Note** • If ruled lines are printed misaligned when printed, adjust the Print Head position.

See [Aligning the Print Head](#)

• If ink tank replacement does not resolve the problem, a Print Head may be worn out. In this case, contact a Canon service representative.



Printer Does Not Start or Stops During Print Jobs

- [Printing Does Not Start](#)
- [Printing Stops Before It is Completed](#)
- [Printer Moves But The Ink Is Not Ejected](#)
- [Print Head Holder Does Not Move to the Center](#)

■ Printing Does Not Start

- Ensure that the printer is turned on.

If the **POWER** lamp is off, press the **POWER** button.

The **POWER** lamp lights green.

If the **POWER** lamp is flashing green, the printer is initializing. Wait until the **POWER** lamp stops flashing.

 **Note** When printing a large amount of data such as a photo or graphics, it takes longer than usual to begin printing. While the **POWER** lamp is flashing, the computer processes the data and sends it to the printer. Simply wait until the processing is completed.

When printing data while using the optional battery, check the battery level. For more details, refer to the manual supplied with the battery.

- Ensure that the printer is securely connected to the computer.

When printing data while using the optional battery, ensure that the battery is installed properly.

 **Note** If you are using a switch box or other device, remove and reconnect the printer directly to the computer. Try printing again.

If printing is now successful, there may be a problem with the device.

Also there could be a problem with the cable(s). Replace the cable(s) and try printing again.

- Ensure that there are no problems in the system.

Restart your computer. It may solve the problem.

Delete an undesired print job if there is any. Use the BJ Status Monitor in Windows or Printer Setup Utility in Macintosh for the deletion. If you are using an OS other than Mac OS X v.10.3, use the Print Center for deletion.



- (1) Open the **Printer Properties** dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

- (2) Click **Maintenance** tab and then **Start Status Monitor**.

- (3) Click **Display Print Queue**.

- (4) Select **Cancel All Documents** in the Printer menu.

When the confirmation message is displayed, click Yes.

The print job is deleted.

Note In Windows Me or Windows 98

Click to select an undesired document and select **Purge Print Documents** in the **Printer** menu.

Macintosh

(1) Open the **Printer Setup Utility** (or **Print Center**), and display the list of print jobs in progress. See [Printer Setup Utility \(or Print Center\)](#)

(2) Select the undesired document and click  (Delete).

The print job is deleted.

● Ensure that the correct printer driver is selected.

In Windows, ensure that the **Canon iP90** is selected in the **Print** dialog box.

In Macintosh, ensure that the **Canon iP90** is selected in the **Printer Setup Utility** (or **Print Center**).

 **Note** In Windows, you can set the **Canon iP90** as the default printer.

● Ensure that the printer port is set correctly.

Windows

Set "USBnnn" or "MPUSBPRNnn" ("n" represents a number) as the printer port.

(1) Open the **Printer Properties** dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

(2) Click the **Ports** tab (or **Details** tab) and set the printer port.

■ Printing Stops Before It is Completed

● Check the status of the POWER lamp.

When the **POWER** lamp is flashing green, the printer is processing data. Printing a large amount of data such as a photo or graphics takes time for the computer to process the data, during which the printer may appear not to be functioning.

In addition, when printing material that uses a large amount of black ink on plain paper continuously, the printer will sometimes pause. In either case, simply wait until the processing is completed.

● Cancel the print job and turn the printer off for at least 15 minutes to cool the Print Head down.

The Print Head can overheat when continuously printing for long time. To protect the Print Head, the printer will sometimes pause automatically at a line break before resuming.

In this event, interrupt the print job at a convenient time and turn the printer off for at least 15 minutes.

Furthermore, when continuously printing graphics or photos with intense colors, printing may stop to protect the Print Head. In this case, printing will not resume. Turn the printer off and wait for at least 15 minutes.

Caution Do not touch the Print Head or nearby components. Inside the printer, the area around the Print Head can become extremely hot.

■ Printer Moves But The Ink Is Not Ejected

- Print the nozzle check pattern to ensure that the ink is ejected properly.

If the nozzle check pattern is not printed correctly, clean the Print Head.

See [Printing the Nozzle Check Pattern](#)

If the problem is not resolved by cleaning the Print Head several times, replace either of ink tanks. If Print Quality still remains poor, the Print Head may be worn out. Contact a Canon service representative.

- When installing an ink tank, press the  button of the ink tank until it clicks into place.
-

■ Print Head Holder Does Not Move to the Center

- Ensure that the printer is turned on.

The Print Head Holder will not move unless the power is on. If the **POWER** lamp is off, close the Print Head Cover and turn the power on.

When the **POWER** lamp is flashing green, the printer is initializing.

When the **POWER** lamp stops flashing, open the Print Head Cover again.

- If the Print Head Cover has been left open for a while, close and reopen it.

If the Print Head Cover is left open for more than 10 minutes, the Print Head Holder moves to the right to prevent the Print Head from drying out. Close and reopen the Print Head Cover to return the holder to the center.



Print Quality is Poor

- [Cannot Print to End of Job](#)
 - [Colors are Unclear](#)
 - [Printing is Blurred/Colors are Wrong](#)
 - [Straight Lines are Misaligned](#)
 -  [Part or the whole of a line and/or an image has not been printed \(In Windows XP or Windows 2000\)](#)
 - [Printed Paper Curls or Ink Blots](#)
 - [Back of Paper is Smudged](#)
 - [Printed Surface is Scratched](#)
 - [White Streaks](#)
 - [Colors are Uneven or Streaked](#)
-

■ Cannot Print to End of Job

- Ensure that the **Page Size** setting in the printer driver matches the size of the paper loaded in the printer.

First, check the **Page Size setting** in the application.

Then ensure that the **Page Size** setting in the **Printer Properties** dialog box for Windows or the **Page Setup** dialog box for Macintosh matches the size set in the application.

- Check the amount of free space on the hard disk.

You may need to increase the amount of free space on the disk by deleting any unnecessary files.

■ Colors are Unclear

- Ensure that the **Media Type** setting in the printer driver matches the media loaded in the printer.

If you are printing a photograph or an illustration in Windows, also increase the **Print Quality** on the **Main** tab. In Macintosh, select **Quality & Media** from the pop-up menu in the Print dialog box, and then click **Printing a top-quality photo** or **Printing tables and charts**.

- If glossy photo paper other than Canon speciality media is used, select **Other Photo Paper** from **Media Type**.

It may resolve the problem.

Load one sheet at a time and remove each sheet as soon as it is printed.

- Ensure that the specified ink tank is installed.
- Ensure that there is ink left.

When an ink tank has run out of ink, replace it with a new one.

See [When Printing Becomes Faint or Colors are Incorrect](#)

 **Note** Printed colors may not match screen colors perfectly due to basic differences in the methods used to produce colors. Color control settings and environmental differences can also affect how colors appear on a screen.

■ Printing is Blurred/Colors are Wrong

- Ensure that the ink tank is installed properly.

Open the Print Head Cover and press the  button of the ink tank and install an ink tank properly.

See [Replacing an Ink Tank](#)

- Ensure that the appropriate paper is selected in the printer driver.

Ensure that the paper selected for **Media Type** in **Main** tab (Windows) or **Print Dialog Box** (Macintosh) matches the paper loaded in the printer.

- Print the nozzle check pattern to ensure that ink is ejected properly.

If the nozzle check pattern is not printed correctly, clean the Print Head.

See [Printing the Nozzle Check Pattern](#)

If the problem is not resolved after cleaning the Print Head several times, carry out a Deep Cleaning. When you still do not solve it, replace either ink tank. If print quality still remains poor, the Print Head may be worn out. Contact a Canon service representative.

- Ensure that you are printing on the correct side of the media.

You can only print on one side of certain media. Note that printing with front side or back side of the paper misused may cause ink to spread or print in the wrong color.

See [Printing Media](#)

■ Straight Lines are Misaligned

- Check whether the Paper Thickness Lever (gray) position is correct.

See [Printing Media](#)

- Align the Print Head.

Windows

- (1) Open the Printer Properties dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

- (2) Click the **Maintenance** tab.

- (3) Click **Print Head Alignment**.

Follow the on-screen instructions.

Macintosh

- (1) Open the **BJ Printer Utility**.

See [Opening the BJ Printer Utility](#)

- (2) Select **Test Print** from the pop-up menu and then click **Print Head Alignment**.

Follow the on-screen instructions.

- In the printer driver settings, select a higher Print Quality setting.

Windows

- (1) Open the **Printer Properties** dialog box.

See [Opening the Printer Properties Dialog Box from your Application Program](#)

- (2) On the **Main** tab, click **High for the Print Quality setting**.

Macintosh

- (1) Open the **Print dialog** box.

See [Opening the Print Dialog Box](#)

- (2) Select **Quality & Media** from the pop-up menu and then click **Detailed Setting**.

- (3) Drag the **Print Quality** slide bar to the Fine end.

Windows

■ Part or the whole of a line and/or an image has not been printed (In Windows XP or Windows 2000)

- On the **Main** tab, click **Print Options** , and select **Reduce spool data size**.

When the **Reduce spool data size** is set, the print quality may be degraded. Under Scaled Printing, fine lines may not be printed.

- Thin lines may not be printed when printing with the **Page Layout Printing** or **Printing with Binding Margin** function. Try making the lines of the document bolder and thicker.

■ Printed Paper Curls or Ink Blots

- 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).
- Ensure that the appropriate paper is selected in the printer driver.

Ensure that the paper selected for the **Media Type** in **Main** tab (Windows) or **Print Dialog Box** (Macintosh) matches the paper loaded in the printer.

■ Back of Paper is Smudged

- If the next page prints before the ink is dry, enable the **Pause Page** printer driver setting.

You can either remove each printed sheet from the Paper Output Slot Cover as soon as it is printed, or enable **Pause Page** to pause after each sheet has printed.

Windows

- (1) Ensure that the printer is turned on and open the Printer Properties dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

- (2) Click the **Maintenance** tab.

- (3) Click **Custom Settings** to open the **Custom Setting** dialog box.

- (4) Drag the **Ink Drying Wait Time** slide bar, and then click **Send**.

(5) When a message is displayed, click **OK**.

Macintosh

(1) Ensure that the printer is turned on and open the BJ Printer Utility.
See [Opening the BJ Printer Utility](#)

(2) Select **Custom Settings** from the pop-up menu.

(3) Drag the **Ink Drying Wait Time** slide bar, and then click **Send**.

(4) When a message is displayed, click **OK**.

● Clean the inside of the printer.

If the inside of the printer is dirty, the printed paper may be smudged. Periodically clean the inside of the printer.

See [Cleaning the Inside of the Printer](#)

● You may need to clean the Paper Feed Roller. Follow the procedure below.

(1) Ensure that the printer is turned on.

If paper is loaded in the printer, remove the paper.

(2) Hold down the **RESUME/CANCEL** button; when the **POWER** lamp flashes three times, release the button.

The Paper Feed Roller will rotate as it cleans.

(3) Repeat this operation one more time.

(4) Load a stack of plain paper in the printer.

(5) Hold down the **RESUME/CANCEL** button; when the **POWER** lamp flashes three times, release the button.

The paper that is loaded in the printer will feed through the printer and be ejected.

■ Printed Surface is Scratched

● Ensure that you are using a suitable paper.

- The paper weight must be less than 105 gsm (28 lbs).

If you use non-Canon brand paper heavier than 105 gsm (28 lbs), the Print Head may scratch the printed surface.

Print with the correct paper.

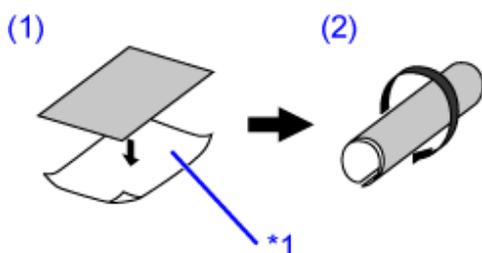
Also see [Compatible Media Types](#), and check the suitable paper for printing.

- The papers must not be curled.

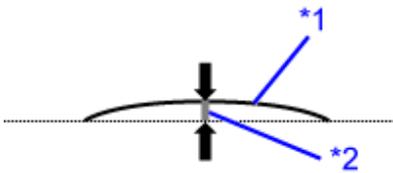
If all four corners or the printing surface of the paper is curled, the paper may become dirty or the paper may not feed properly. Use paper after correcting paper curl as follows.

(1) Face up the printing surface*1, and cover it with a non-printing regular paper to avoid damaging the surface.

(2) Roll up the paper in a direction opposite to paper curl as the figure below.



(3) Check the printing paper if paper curl is corrected within approximately 2 to 5 mm*2. It is recommended to print the curl-corrected paper one sheet at a time.



- When printing on thick paper, set the Paper Thickness Lever (gray) to the left. This widens the gap between the Print Head and the paper. If the paper is scratched even when printing on plain paper, also try this.
- Return the Paper Thickness Lever (gray) to the right position after printing.
- Reduce the Intensity setting in the printer driver and try printing again. When printing an image with high intensity, especially on plain paper, the paper may absorb too much ink and become wavy. This may cause the printed surface to become scratched.

Windows

(1) Open the **Printer Properties** dialog box.

See [Opening the Printer Properties Dialog Box from your Application Program](#)

(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.

See [Opening the Print Dialog Box](#)

(2) Select **Color Options** from the pop-up menu.

(3) Drag the **Intensity** slide bar to set the intensity.

- Ensure that you are printing within the recommended printing area.

See [Printing Area](#)

■ White Streaks

- Print the nozzle check pattern to check ink output.

If a specific color is not printed in the nozzle check pattern, clean the Print Head.

See [Printing the Nozzle Check Pattern](#)

The problem can also be resolved by aligning the Print Head. For details on Print Head Alignment, refer to "[Straight Lines are Misaligned](#)".

- Ensure that the appropriate Print Quality is selected in the printer driver.

Set **Print Quality** in the printer driver setting screen.

Windows

(1) Open the **Printer Properties** dialog box.

See [Opening the Printer Properties Dialog Box from your Application Program](#)

(2) On the **Main** tab, click **High for the Print Quality** setting.

Macintosh

(1) Open the **Print** dialog box.

See [Opening the Print Dialog Box](#)

(2) Select **Quality & Media** from the pop-up menu and then click **Detailed Setting**.

(3) Drag the **Print Quality** slide bar to the **Fine** end.

■ Colors are Uneven or Streaked

- Increase the Print Quality setting in the printer driver settings.

Windows

(1) Open the **Printer Properties** dialog box.

See [Opening the Printer Properties Dialog Box from your Application Program](#)

(2) On the **Main** tab, click **High for the Print Quality** setting.

Macintosh

(1) Open the **Print** dialog box.

See [Opening the Print Dialog Box](#)

(2) Select **Quality & Media** from the pop-up menu and then click **Detailed Setting**.

(3) Drag the **Print Quality** slide bar to the **Fine** end.



Troubleshooting

Cannot Install Printer Driver

- [Ensure the installation procedure](#)
- [Close any other applications, including anti-virus software, before installation](#)
-  [If the Installer for the printer driver does not start up automatically when you insert the *Setup Software & User's Guide CD-ROM*, click Start, select **My Computer** and then double-click the **CD-ROM icon**](#)
- [Ensure that there are no problems with the *Setup Software & User's Guide CD-ROM*](#)

■ Ensure the installation procedure

Install the printer driver following the procedures described in your setup guide.

If the printer driver was not installed correctly, delete the printer driver and restart your computer. Try to reinstall the printer driver.

See [Uninstalling Printer Drivers](#)

 **Note** If the Installer was forcibly terminated due to an error in Windows, Windows may be unstable and this will prevent the printer driver from being installed.

■ Close any other applications, including anti-virus software, before installation

Sometimes the printer driver cannot be installed because another application is running.



■ If the Installer for the printer driver does not start up automatically when you insert the *Setup Software & User's Guide CD-ROM*, click Start, select My Computer and then double-click the CD-ROM icon

For non-Windows XP users, open the **My Computer** window and then double-click the **CD-ROM icon**.

 **Note** If you are typing in the file name, you must specify the CD-ROM drive letter and the installation program ("Msetup4.exe"). The CD-ROM drive letter is computer dependent.

■ Ensure that there are no problems with the *Setup Software & User's Guide CD-ROM*

In Windows, use Explorer to ensure that the CD-ROM can be read. In Macintosh, check that the CD-ROM icon is visible. If there is a problem with the CD-ROM, contact a Canon service representative.



Uninstalling Printer Drivers

Windows

 **Note** Close applications that are running before uninstalling the printer driver.

Use the Uninstaller to delete any unwanted printer drivers. This allows you to delete the files associated with the printer driver at the same time.

Important In Windows XP and Windows 2000, when not logged on as a **computer administrator** or **Administrators**, you cannot delete printer drivers.

1 Click **Start** and select **All Programs (or Programs), Canon iP90 and Uninstall**.

2 When the confirmation message is displayed, click **Yes**.

3 When all the files have been deleted, click **OK**.

The deletion of the printer driver is complete.

If a message prompts you to restart your computer, click **OK** to restart your computer.

 **Note**

- In Windows Me or Windows 98, you can also start the **Uninstaller** by double-clicking on **Uninstall** in the **Canon iP90** folder on the desktop.
- When using Bluetooth communication, uninstall the printer driver, and delete a printer registration from the Bluetooth device, too.

Macintosh

When you want to delete printer driver or install it again, uninstall a printer driver with the following steps.

Important When a printer driver is uninstalled in this method, all the printer drivers manufactured by Canon which have already been installed in the computer are uninstalled.
Only a specific printer can not be deleted.

 **Note** When not logged on as Administrator, you cannot delete printer drivers. For further information about Administrator, refer to your Macintosh documentation.

1 Open the **Printer Setup Utility (or Print Center)**.

See [Printer Setup Utility \(or Print Center\)](#)

2 From the **Printer List** window, select all registered **BJ** printers.

3 Select **Delete Selected Printers** from the **Printer Setup Utility's Printers** menu.

4 Double-click the hard disk icon where the printer driver was installed, the **Library** folder, the **Printers** folder, the **Canon** folder, and then drag the **BJ Printer** folder into the **Trash**.

5 Restart your computer.



Deleting Selected Printers

Follow the steps described below to delete the unnecessary printer from the printer list. The printer drivers which have been installed on your computer can be left.

1 Open the Printer Setup Utility (or Print Center).

See [Printer Setup Utility \(or Print Center\)](#)

2 Select the BJ printer you want to delete on the printer list.

3 Select Delete Selected Printers from the Printer Setup Utility's Printers menu.



Uninstalling the On-screen Manual

Follow the steps described below to uninstall the installed On-screen Manuals (*Photo Application Guide, User's Guide, Bluetooth Unit BU-10 User's Guide*) from your computer.

Windows

Note that this uninstall procedure will uninstall all guides.

1 Click **Start**, select **All Programs (or Programs)**, **Canon iP90 Manual and Uninstall**.

2 When the **Confirm File Deletion** message is displayed, click **Yes**.

When the message prompting you to restart your computer is displayed, click **OK** to restart your computer.

Macintosh

1 Double-Click the **Applications** folder in the hard disk.

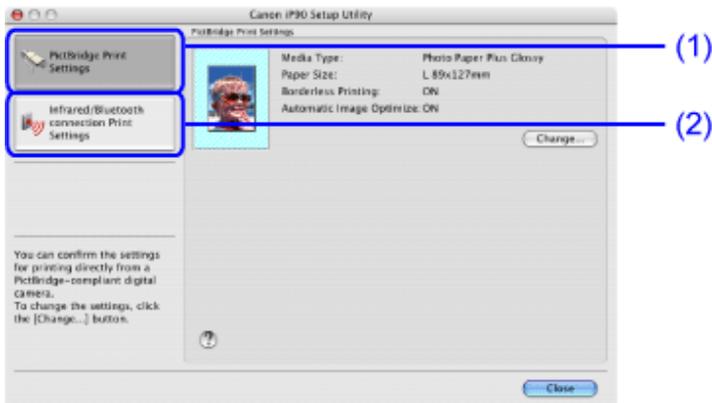
2 Double-click the **Canon Utilities**, and drag the **iP90 Manual** icon into the **Trash**.

3 Drag the **On-screen Manuals** (*iP90 Photo Application Guide, iP90 User's Guide, iP90 Bluetooth Unit BU-10 User's Guide*) on the desktop into the **Trash**.

 **Note** When the On-screen Manual was copied on the hard disk by pushing an **Open** button during the install, delete the manual directly from the place where it was copied.



Setup Utility Functions



(1) PictBridge Print Settings

You can confirm the settings for printing directly from a PictBridge compliant device.

See [PictBridge Print Settings](#)

(2) Infrared / Bluetooth connection Print Settings

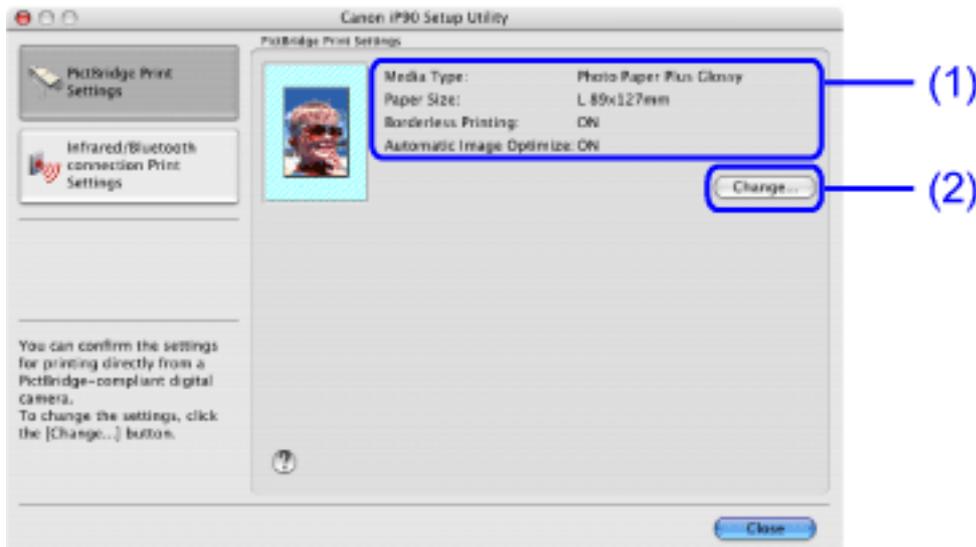
You can confirm the settings for printing via infrared and Bluetooth connection.

See [Infrared / Bluetooth Connection Print Settings](#)

-  **Note**
- The screens in this section refer to Mac OS X 10.3.4 operation. The equivalent screens may vary slightly depending on your operating system.
 - To see a description of the Canon iP90 Setup Utility, click the  button.



■ PictBridge Print Settings



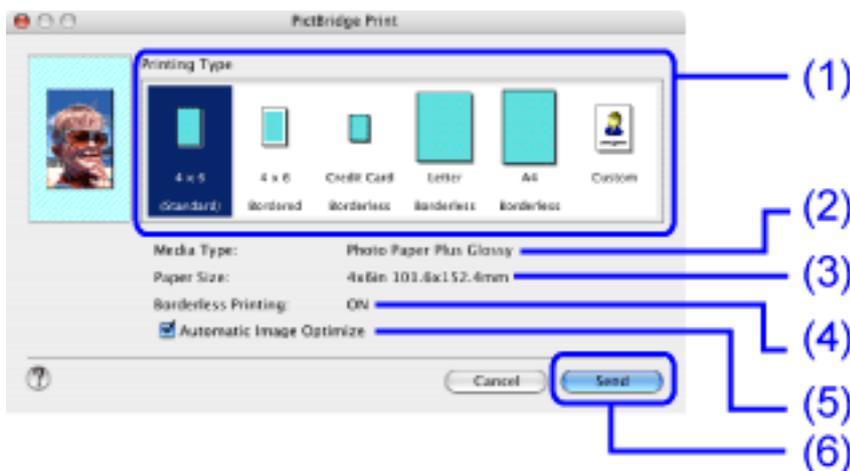
(1) PictBridge Print Settings

This field displays the media type, paper size, borderless (full) printing On/Off, and automatic image optimize On/Off for printing from a PictBridge compliant device.

(2) Change

Clicking this button displays the PictBridge dialog, allowing you to change the settings for printing from a PictBridge compliant device.

■ PictBridge Dialog



(1) Printing Type

Select a type (layout) of print to be made using a PictBridge compliant device. To specify a media type, paper size, borderless (full) printing On/Off, and automatic image optimize On/Off, select **Custom**.

(2) Media Type

The media type selected in Printing Type is displayed. If you selected Custom in Printing Type, you can select a media type from among Photo Paper Pro, Photo Paper Plus Glossy and Plain Paper.

(3) Paper Size

The paper size selected in Printing Type is displayed. If you selected Custom in Printing Type, you can select a paper size from among 4 x 6 in 101.6 x 152.4 mm, 5 x 7 in 127.0 x 177.8 mm, Letter, Credit Card and A4 size.

(4) Borderless Printing

Whether Borderless Printing (full) is selected is indicated. If you selected Custom in Printing Type, check-marking this item allows you to print an image on the media with no margin left around the image.

(5) Automatic Image Optimize

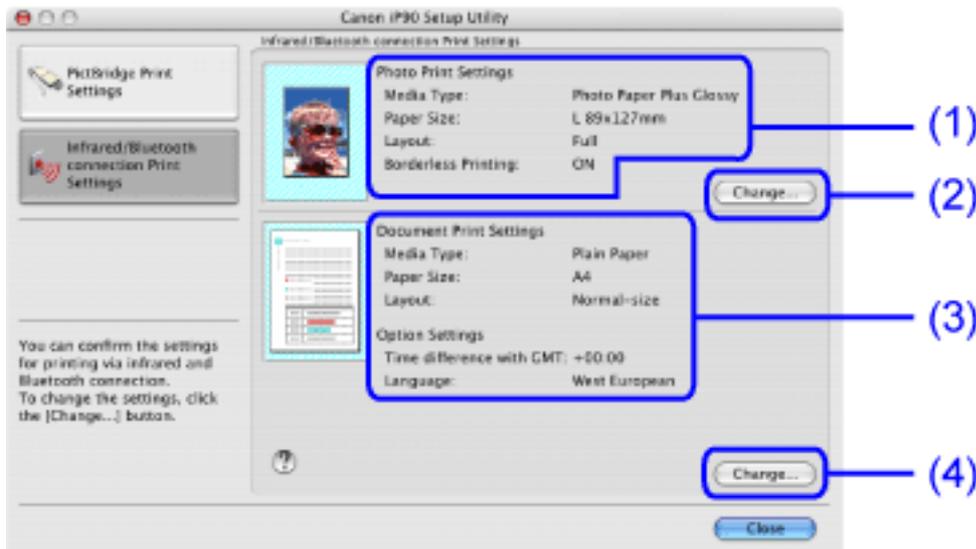
Check-marking this item automatically adjusts coloring and brightness by correcting sections of the photograph that may be either too dark or too bright.

(6) Send

The settings you have made are sent to the printer.



■ Infrared/Bluetooth connection Print Settings



(1) Photo Print Settings

This field displays the media type, paper size, layout, and borderless (full) printing On/Off selected for printing via infrared and Bluetooth communication.

(2) Change

Clicking this button displays the Photo Printing dialog, allowing you to change the settings for photo printing.

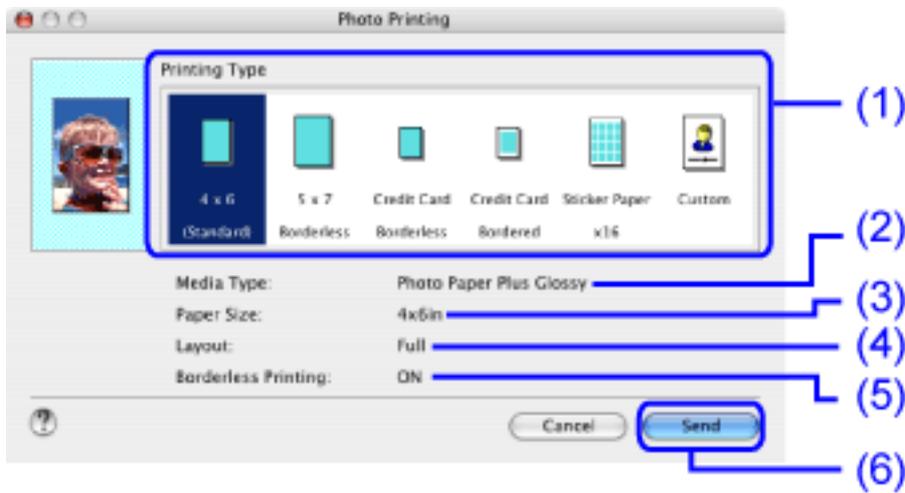
(3) Document Print Settings

This field displays the media type, paper size, and layout selected to print a document via infrared communication. It also displays optional settings such as a time difference and language.

(4) Change

Clicking this button displays the Document Printing dialog, allowing you to change the settings for document printing.

■ Photo Printing Dialog



(1) Printing Type

Select a type (layout) of print to be made via infrared and Bluetooth communication. To specify a media type, paper size, and borderless (full) printing On/Off individually, select Custom.

(2) Media Type

The media type selected in Printing Type is displayed. If you selected Custom in Printing Type, you can select a media type from among Photo Paper Pro and Photo Paper Plus Glossy.

(3) Paper Size

The paper size selected in Printing Type is displayed. If you selected Custom in Printing Type, you can select a paper size from among 4 x 6 in 101.6 x 152.4 mm, 5 x 7 in 127.0 x 177.8 mm, A4, Letter, Credit Card and Sticker Paper.

(4) Layout

The number of image divisions laid out on a sheet (sticker paper, etc.) is displayed. If you selected Custom in Printing Type, you can select a layout from among Full, x2, x4 and x8.

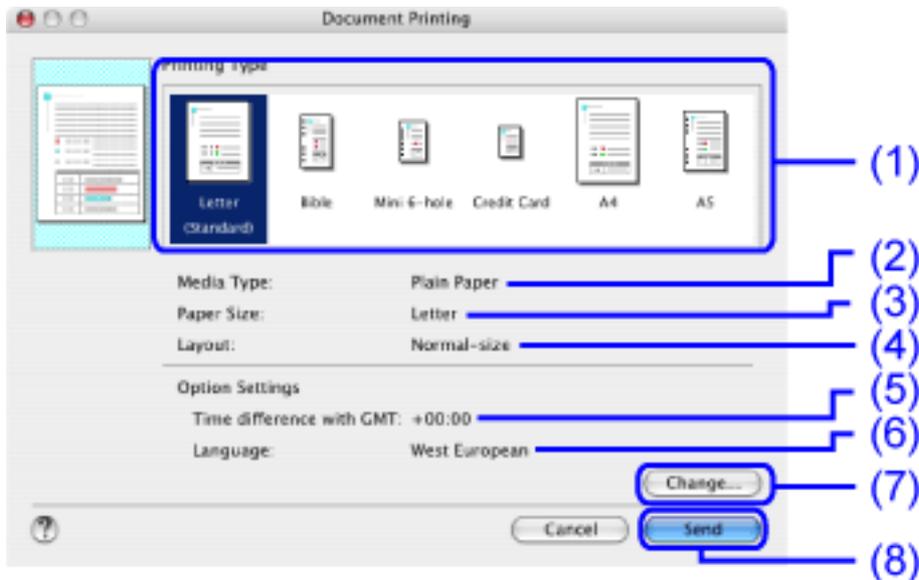
(5) Borderless Printing

Whether Borderless Printing (full) is selected is indicated. If you selected Custom in Printing Type, check-marking this item allows you to print an image on the media with no margin left around the image.

(6) Send

The settings you have made are sent to the printer.

■ Document Printing Dialog



(1) Printing Type

Select a type (layout) of document to be printed via infrared and Bluetooth communication.

(2) Media Type

Plain paper is selected for document printing.

(3) Paper Size

The paper size selected in Printing Type is displayed.

(4) Layout

Normal-size is selected for document printing.

(5) Time difference with GMT

The difference in time between the standard time in your district and GMT is indicated. You can change this setting in Option Settings.

(6) Language

The language selected in Option Settings dialog is displayed.

(7) Change

Clicking this item displays the Option Settings dialog, allowing you to change the above settings 5 to 6.

(8) Send

The settings you have made are sent to the printer.

■ Option Settings Dialog



(1) Time difference with GMT

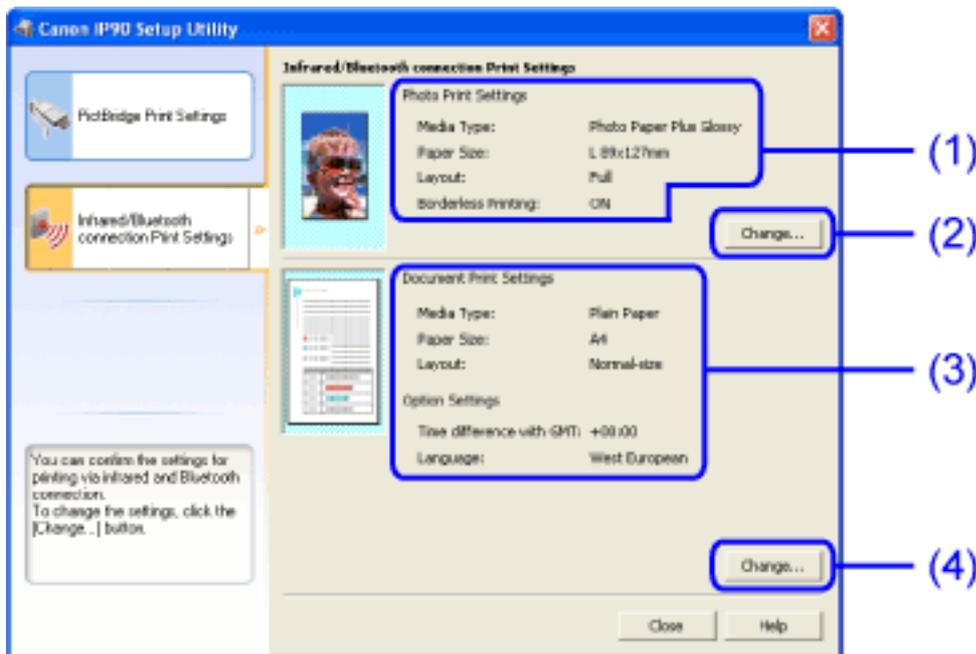
You can change the time difference with GMT.

(2) Language

You can select a printing language from among West European, East European and Cyrillic.



■ Infrared/Bluetooth connection Print Settings



(1) Photo Print Settings

This field displays the media type, paper size, layout, and borderless (full) printing On/Off selected for printing via infrared and Bluetooth communication.

(2) Change

Clicking this button displays the Photo Printing dialog, allowing you to change the settings for photo printing.

(3) Document Print Settings

This field displays the media type, paper size, and layout selected to print a document via infrared communication. It also displays optional settings such as a time difference and language.

(4) Change

Clicking this button displays the Document Printing dialog, allowing you to change the settings for document printing.

■ Photo Printing Dialog



(1) Printing Type

Select a type (layout) of print to be made via infrared and Bluetooth communication. To specify a media type, paper size, and borderless (full) printing On/Off individually, select Custom.

(2) Media Type

The media type selected in Printing Type is displayed. If you selected Custom in Printing Type, you can select a media type from among Photo Paper Pro and Photo Paper Plus Glossy.

(3) Paper Size

The paper size selected in Printing Type is displayed. If you selected Custom in Printing Type, you can select a paper size from among 4 x 6 in 101.6 x 152.4 mm, 5 x 7 in 127.0 x 177.8 mm, A4, Letter, Credit Card and Sticker Paper.

(4) Layout

The number of image divisions laid out on a sheet (sticker paper, etc.) is displayed. If you selected Custom in Printing Type, you can select a layout from among Full, x2, x4 and x8.

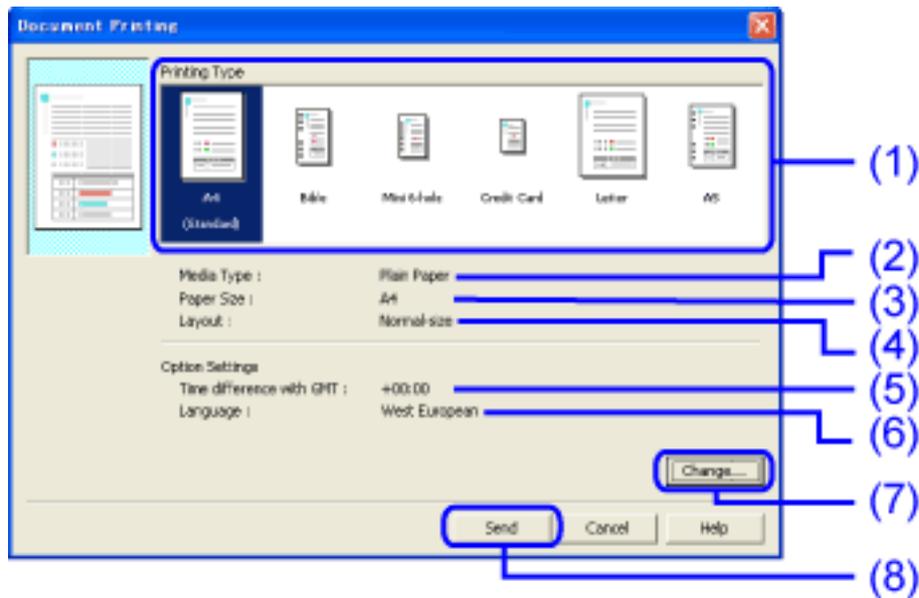
(5) Borderless Printing

Whether Borderless Printing (full) is selected is indicated. If you selected Custom in Printing Type, check-marking this item allows you to print an image on the media with no margin left around the image.

(6) Send

The settings you have made are sent to the printer.

■ Document Printing Dialog



(1) Printing Type

Select a type (layout) of the document to be printed via infrared and Bluetooth communication.

(2) Media Type

Plain paper is selected for document printing.

(3) Paper Size

The paper size selected in Printing Type is displayed.

(4) Layout

Normal-size is selected for document printing.

(5) Time difference with GMT

The difference in time between the standard time in your district and GMT is indicated. You can change this setting in Option Settings.

(6) Language

The language selected in Option Settings dialog is displayed.

(7) Change

Clicking this item displays the Option Settings dialog, allowing you to change the above settings 5 to 6.

(8) Send

The settings you have made are sent to the printer.

■ Option Settings Dialog



(1) Time difference with GMT

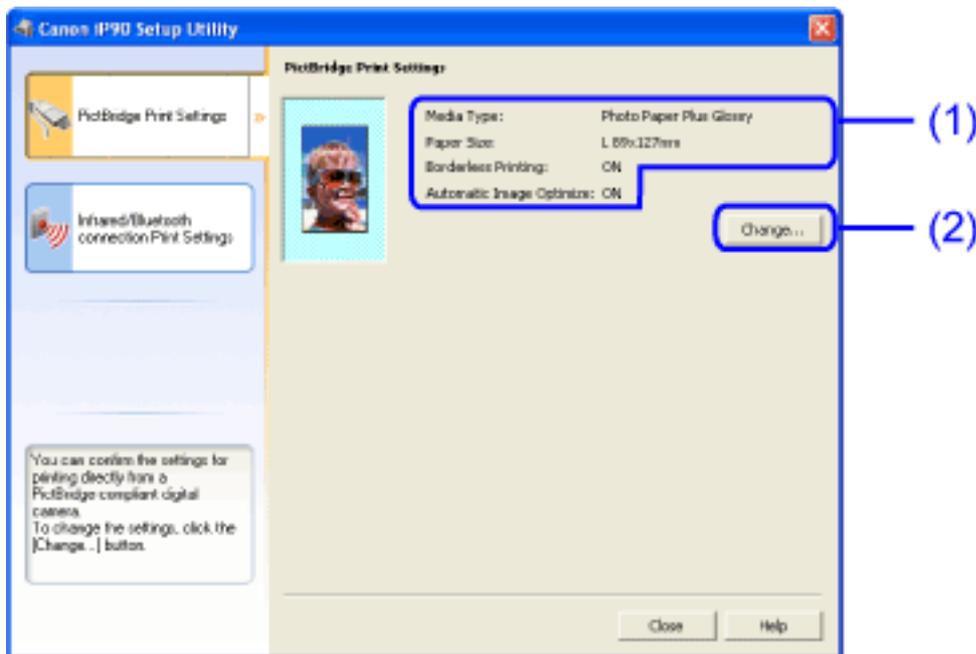
You can change the time difference with GMT.

(2) Language

You can select a printing language from among West European, East European and Cyrillic.



■ PictBridge Print Settings



(1) PictBridge Print Settings

This field displays the media type, paper size, borderless (full) printing On/Off, and automatic image optimize On/Off for printing from a PictBridge compliant device.

(2) Change

Clicking this button displays the PictBridge dialog, allowing you to change the settings for printing from a PictBridge compliant device.

■ PictBridge Dialog



(1) Printing Type

Select a type (layout) of print to be made using a PictBridge compliant device. To specify a media type, paper size, borderless (full) printing

On/Off, and automatic image optimize On/Off, select **Custom**.

(2) Media Type

The media type selected in Printing Type is displayed. If you selected Custom in Printing Type, you can select a media type from among Photo Paper Pro, Photo Paper Plus Glossy and Plain Paper.

(3) Paper Size

The paper size selected in Printing Type is displayed. If you selected Custom in Printing Type, you can select a paper size from among 4 x 6 in 101.6 x 152.4 mm, 5 x 7 in 127.0 x 177.8 mm, Letter, Credit Card and A4 size.

(4) Borderless Printing

Whether Borderless Printing (full) is selected is indicated. If you selected Custom in Printing Type, check-marking this item allows you to print an image on the media with no margin left around the image.

(5) Automatic Image Optimize

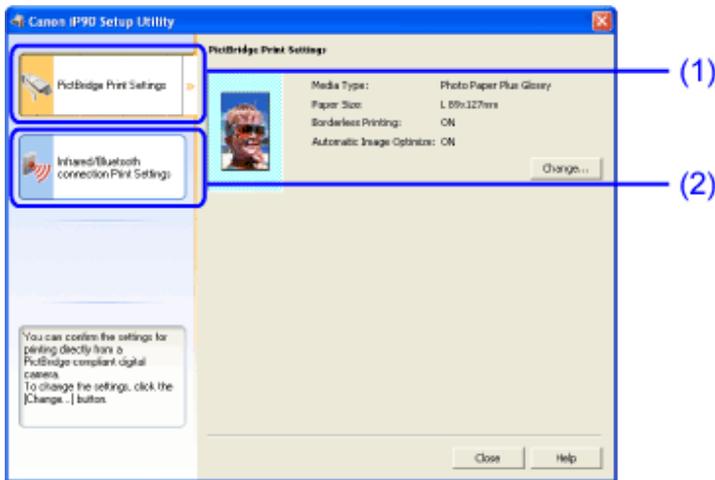
Check-marking this item automatically adjusts coloring and brightness by correcting sections of the photograph that may be either too dark or too bright.

(6) Send

The settings you have made are sent to the printer.



Setup Utility Functions



(1) PictBridge Print Settings

You can confirm the settings for printing directly from a PictBridge compliant device.

See [PictBridge Print Settings](#)

(2) Infrared / Bluetooth connection Print Settings

You can confirm the settings for printing via infrared and Bluetooth connection.

See [Infrared / Bluetooth Connection Print Settings](#)

-  **Note**
- The screens in this section refer to Windows XP SP2 operation. The equivalent screens may vary slightly depending on your operating system.
 - To see a description of the Canon iP90 Setup Utility, click the Help button.



Using the Canon iP90 Setup Utility

Function of the Canon iP90 Setup Utility

The Canon iP90 Setup Utility is used to set up the media type, size and print layout to print via infrared communication or PictBridge compliant devices.

Installing the printer driver using the **Easy Install** button in the *Setup Software & User's Guide CD-ROM* will automatically install the Canon iP90 Setup Utility.

 **Note** The Canon iP90 Setup Utility can also set up the print setting via Bluetooth communication.

For more information on settings for printing via Bluetooth communication, refer to the *Bluetooth Unit BU-10 User's Guide*.

Starting the Canon iP90 Setup Utility

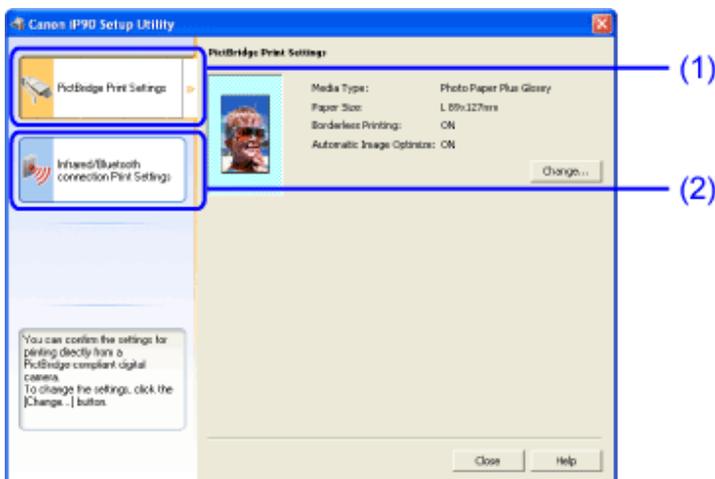


1 Check that the printer is connected with the computer by USB cable, and that the **POWER Lamp is on**.

2 Click **Start** and select **All Programs** , **Canon Utilities** , **Canon iP90 Setup Utility** and **Canon iP90 Setup Utility**.

Or, double-click the **Canon iP90 Setup Utility** icon on the desktop.

3 Click the mode setting tab on the screen.



(1) Select to change the default settings when you print from a PictBridge compliant device.

(2) Select to set up the print settings when you print via an infrared and Bluetooth communication.

**Note**

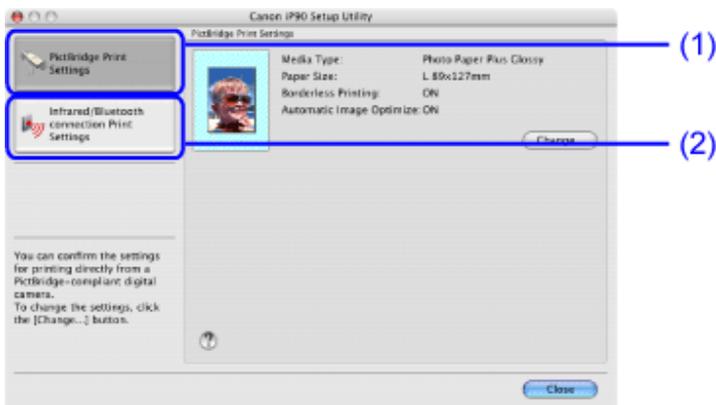
- About the settings for printing with PictBridge.
See [PictBridge Print Settings](#)
- About the settings for printing with infrared communication.
See [Infrared / Bluetooth Connection Print Settings](#)

Macintosh

1 Check that the printer is connected with the computer by USB cable, and that the **POWER Lamp** is on.

2 Double-Click the **Applications** folder in the hard disk where the printer driver is installed, then **Canon iP90 Setup Utility** folder, and then **Canon iP90 Setup Utility** icon.

3 Click the mode setting tab on the screen.



(1) Select to change the default settings when you print from a PictBridge compliant device.

(2) Select to set up the print settings when you print via an infrared and Bluetooth communication.

**Note**

- About the settings for printing with PictBridge.
See [PictBridge Print Settings](#)
- About the settings for printing with infrared communication.
See [Infrared / Bluetooth Connection Print Settings](#)



An Error Message is Displayed on the Screen

-  [Error Writing/Output to USBnnn or MPUSBPRNnn](#)
-  [Have you replaced an ink tank with a new one? is Displayed](#)
- [Low Ink Warning Displays Ink Tank with '?'](#)
- [Other Error Messages](#)



■ Error Writing/Output to USBnnn or MPUSBPRNnn

- Ensure that the printer is turned on.

If the **POWER** lamp is off, turn the printer on.

When the **POWER** lamp is flashing green, the printer is initializing. Wait until the **POWER** lamp stops flashing.

- Ensure that paper is loaded.

There is a possibility that the "No paper" error has not been reset. Load paper and press the **RESUME /CANCEL** button.

- Ensure that the printer port setting corresponds to the printer interface connection.

(1) Open the **Printer Properties** dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

(2) Click the **Ports** tab (or **Details** tab), and then select **MPUSBPRNnn (Canon iP90)** or **USBnnn (Canon iP90)** ("n" represents a number) in the Print to the following port.

- Ensure that the printer is securely connected to the computer.

 **Note** If you are using a switch box or other devices, remove and reconnect the printer directly to the computer and try printing again.

If printing is now successful, there may be a problem with the device.

Also there could be a problem with the cable(s). Replace the cable(s) and try printing again.

- Verify the printer port status.

(1) Right-click **My Computer** and select **Properties**.

(2) Click the **Hardware** tab, **Device Manager**, and double-click **Universal serial bus controller**, **USB Printing Support**.

In Windows Me or Windows 98, click **Universal serial bus controller** on the **Device Manager** tab, and then double-click **Canon iP90**.

(3) On the **General** tab, ensure that there is any indication of a problem with the device.

- If spooling action is abnormal, disable it to send the print data directly to the printer and try printing again. (In Windows Me or Windows 98)

(1) Open the **Printer Properties** dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

(2) Click the **Details** tab.

(3) Click **Spool Settings**, and then select **Print directly to the printer**.

● There may be a problem in the printer driver. Uninstall the printer driver and then reinstall it.

See [Uninstalling Printer Drivers](#)



■ Have you replaced an ink tank with a new one? is Displayed

If an ink tank is removed, a confirmation message of ink tank replacement may be displayed before the next print job.

● If an ink tank has been replaced with a new one:

Click **Yes** and select the replaced ink tank to reset the ink counter.

● If the ink tank has not been replaced with a new one:

Click **No** to close the dialog box.

You can choose to disable the display of a confirmation message.

(1) Ensure that the printer is turned on.

(2) Open the **Printer Properties** dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

(3) Click the **Maintenance** tab and then click **Low Ink Warning Setting** icon.

(4) Clear the check box of **Display a confirmation message of ink tank replacement** off and click **Send**.

■ Low Ink Warning Displays Ink Tank with '?'

If the following icons are displayed in BJ Status Monitor, the ink level and ink counter are not matched.



● Reset the ink counter from the printer driver when you replace the ink tank.

See [Resetting the Ink Counter](#)

 **Note** When **Display a confirmation message of ink tank replacement** is selected, a message asking whether or not the ink tank has been replaced is automatically displayed whenever the ink tank is replaced.



● Turn the low ink warning off until you replace the ink tank to stop the warning message.

(1) Ensure that the printer is turned on.

(2) Open the **Printer Properties** dialog box.

See [Opening the Printer Properties Dialog Box Directly from the Start Menu](#)

- (3) Click the **Maintenance** tab and then click **Low Ink Warning Setting** icon.
- (4) Clear the check box of **Display low ink warning** off and click **Send**.
- (5) When the confirmation message is displayed, click **OK**.

Macintosh

● Clear the check box of **Display the Remaining Ink Level** to stop displaying the ink level.

(1) Ensure that the printer is turned on.

(2) Open the **BJ Printer Utility**.

See [Opening the BJ Printer Utility](#)

(3) Select **Remaining ink level setting** from the pop-up menu.

(4) Clear the check box of **Display the Remaining Ink Level** and click **Send**.

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

■ Other Error Messages

Windows

● If the BJ Status Monitor is displayed, follow the on-screen instructions.

If an error occurs during printing, the error dialog with the BJ Status Monitor is displayed. Follow the dialog message instructions.

Refer to "[Low Ink Warning Displays Ink Tank with '?'](#)" as it is in the case.

Windows

● If one of the following messages is displayed outside of the BJ Status Monitor:

- **Could not spool successfully due to insufficient disk space**

Increase the amount of free space on the disk by deleting any unnecessary files.

- **Could not spool successfully due to insufficient memory**

Increase available memory by closing any other applications currently running. If you still cannot print, restart Windows and try printing again.

- **Printer driver could not be found**

Uninstall the printer driver and then reinstall it.

See [Uninstalling Printer Drivers](#)

- **Background printing failed (In Windows Me or Windows 98)**

Restart Windows and try printing again.

- **Could not print Application name - File name**

Try printing again once the current job is finished.

Macintosh

● If a message with the format "Error No.: n" is displayed:

Error No.: 300

Ensure that the printer is turned on, and that the printer and the computer are securely connected. If the problem remains, verify the Printer Setup Utility (or Print Center) setting. If you are using an OS other than Mac OS X v.10.3, start Print Center and verify the setting.

(1) Open the **Printer Setup Utility** (or **Print Center**).

See [Printer Setup Utility \(or Print Center\)](#)

(2) Ensure that the iP90 is displayed in the Printer List.

Error No.:1700

The printer has a built-in waste ink absorber* to hold the ink used during Print Head cleaning. Eight flashes indicates that this absorber is nearly full.

Press the **RESUME/CANCEL** button to clear the error so you can continue printing. Before the waste ink absorber becomes completely full, contact a Canon service representative.

*The waste ink absorber absorbs ink used during cleaning, for example. When you experience this error, you will need to call for servicing to replace the waste ink absorber and to check the printer for proper operation.

Error No.:2001

Disconnect the camera cable, press the **RESUME/CANCEL** button to the printer and reconnect the cable.

If the error is still unresolved, the digital camera or digital video camcorder that is not supported by this printer. Use a digital camera or digital video camcorder compatible with this printer.



Transporting Printer

When relocating the printer or storing the printer for a long period of time, pack the printer using the original packing materials.

If you do not have the original packing materials, pack the printer carefully using in protective material and place inside a sturdy box.

1 Turn the printer off and unplug the printer.

Important Do not unplug the printer while the **POWER** lamp is lit or flashing to protect the printer from the damage.

2 Close the Paper Rest and Paper Output Slot Cover.

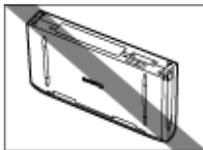
3 Disconnect the printer cable from the computer and from the printer, and then disconnect the Universal AC Adapter from the printer.

 **Note** When the battery is connected to the printer but is not used for a long period of time (6 months or longer), remove the battery pack from the battery charger. For details on how to remove the battery pack, refer to the manual supplied with the battery.

4 Pack the printer in a plastic bag.

 **Note**

- Do not carry or store the printer with the round side down. A failure can result.



- Clearly label the box as "Fragile", if using a transporting company.



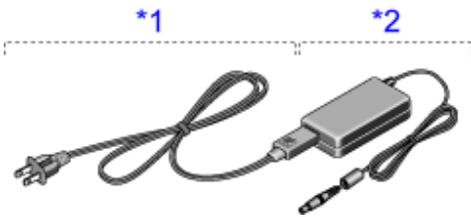
Traveling Abroad with the Printer

Before traveling abroad with the printer, ensure that the following notes.

■ About Universal AC Adapter and Power Cord

The Universal AC Adapter can be used abroad to power the printer from power supplies ranging from AC 100 V to 240 V. However, the specification of the Power Cord differs for each country, please purchase the Power Cord suitable for the specification of each country.

For details, call for Canon service representative.



*1 Power Cord

*2 Universal AC Adapter

Universal AC Adapter is not dependent on the specification of each country. It is common also abroad and can use.

■ Fill Out the CIWS Card

Fill out the CIWS Card (Canon International Warranty System) with the date of purchase and the name of where the printer was purchased. Carry this warranty card with you when you travel, so you can request repairs or servicing of the printer at your destination. For details, refer to the CIWS card.

■ The cautions when carrying printer

- Pack up firmly in the case of carrying bag. For details, refer to [Transporting Printer](#).
- Do not place any heavy object on the printer.
Strong vibration and shock could cause the printer's malfunction or leak of ink.
- When you remove the Power Cord, check that the POWER lamp is off completely. If the Power Cord is pulled out while the POWER lamp is on or flashing, it will become the failure.

 **Note** X-ray and any other baggage inspection devices have no adverse effect on this printer.



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 * *Print speed may vary with the content of the document and the processing speed of the host computer.	Black printing Max Speed (Custom Setting 5): 16 ppm Standard: 12.7 ppm Color printing Max Speed (Custom Setting 5): 12 ppm Standard: 7.2 ppm
Print width:	203.2 mm max. (8.0 in) (for Borderless Printing: 215.9 mm/8.5 in)
Resident print control mode:	Canon extended mode
Receive buffer:	42 KB
Interface:	USB/IrDA Ver.1.1/Direct Print Port/Bluetooth Ver.1.1 (option)
Acoustic noise level:	Approx. 40 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 100-240 V, 50/60 Hz
Power consumption:	Standby: 1 W or lower Printing: Approx. 10 W OFF: Approx. 0.2 W
Dimensions (with a Paper Support and Paper Output Slot Cover retracted):	310 (W) X 174 (D) X 51.8 (H) mm 12.20 (W) X 6.85 (D) X 2.04 (H) in
Weight:	Approx. 1.8 kg (4 lb.)
Print Head:	Black: 160 X 2 nozzles (600 dpi) Cyan, Magenta, Yellow: 128 X 2 X 3 nozzles per each color (600 dpi)
Ink Tanks:	Capacity (pages): Black (BCI-15 Black) approx. 185 ^{*1} , approx. 450 ^{*2} Color (BCI-16 Color) approx. 100 ^{*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

Universal AC adapter

Dimensions:	118 (W) x 58 (D) x 25.8 (H) mm 4.65 (W) X 2.28 (D) X 1.02 (H) in
Weight:	Approx. 200 g (0.44 lb.)
Rated input:	AC 100 to 240 V
Rated output:	DC 16 V, 1.8 A

Camera Direct Print

• **Canon "Bubble Jet Direct"**

Compatible Paper	Card #1 (Photo Paper Pro 4" x 6"/101.6 x 152.4 mm), Card #2 (Photo Paper Plus Glossy, Photo Paper Plus Semi-Gloss, or Glossy Photo Paper 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, Photo Paper Plus Glossy, Photo Paper Plus Semi-Gloss, or Glossy Photo Paper Letter size) A4 (Photo Paper Pro, Photo Paper Plus Glossy, Photo Paper Plus Semi-Gloss, or Glossy Photo Paper A4 size)
Layout Print	Standard: Borderless / with border, Index Print: 6-80 images (Depending on the size of print media)
Print Quality	Standard
Effect	Exif Print compatible
DPOF Version	Ver. 1.00 compatible (Index print, number of copies, select images, print special characters (date))

• **PictBridge**

Paper size	Default (Photo Paper Plus Glossy 10 x 15 cm / 4" x 6"), 10 x 15 cm / 4" x 6" (Photo Paper Plus Glossy, Photo Paper Pro, Photo Paper Plus Semi-Gloss, Glossy Photo Paper, or Photo Stickers), 13 x 18 cm / 5" x 7" (Photo Paper Plus Glossy)*, A4 / 8.5" x 11" (Photo Paper Plus Glossy A4/Letter, Photo Paper Pro A4 / Letter, Photo Paper Plus Semi-Gloss A4 / Letter, Glossy Photo Paper A4 / Letter, Plain Paper A4 / Letter), Credit Card (Glossy Photo Paper) *If using a Canon PictBridge-compatible camera, you can select it.
Paper type	Default (Photo Paper Plus Glossy), Photo (Photo Paper Plus Glossy), Fast Photo (Photo Paper Pro), Plain Paper

Layout	Default (Borderless), Borderless, Bordered, 2-up/4-up/9-up/16-up* *When 4" x 6" is selected from "Paper Size", these options may be available in "Layout". For details on "Layout", see Quick Start Guide.
Trimming	Off (No trimming)
Image optimize	Default (Exif Print), "VIVID"* , "NR" (Noise Reduction)*, "VIVID+NR"* *If using a Canon PictBridge-compatible camera, you can select it.
Date print	Default (Off: No printing)

BJ Printer Driver System Requirements

<p>Windows</p> <ul style="list-style-type: none"> • Use a computer equipped on which Windows XP, Windows 2000, Windows Me, Windows 98 can operate. • USB interface or IrDA Ver 1.1 • CD-ROM drive • Available hard-disk space for printer driver installation (including temporary files) Windows XP/Windows 2000: 150 MB Windows Me/Windows 98: 65 MB <p>USB operation can only be guaranteed on a PC with pre-installed Windows XP, Windows 2000, Windows Me, or Windows 98.</p>	<p>Macintosh</p> <ul style="list-style-type: none"> • Use a Macintosh series computer equipped with USB interface on which Mac OS X v.10.2.1 or later. • Available hard-disk space for printer driver installation Mac OS X v.10.2.1 or later: 340 MB • USB interface • CD-ROM drive • The following functions are not supported: <ul style="list-style-type: none"> - Duplex Printing - Poster Printing - Fit to Page Printing - Booklet Printing - Reverse Order Printing (except for Mac OS X v.10.3.x) - Photo Optimizer Pro
---	---

Additional System Requirements for Electric Manual

<ul style="list-style-type: none"> • 15MB free hard disk space • Windows: Microsoft® Internet Explorer 5.0 or later • Macintosh: Microsoft® Internet Explprer 5.0 or later, Safari 1.0 or later
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Index

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#)

A

- [About Ink](#)
- [AC Adapter Connector](#)
- [Add to Profiles](#)
- [Aligning the Print Head](#)
- [Amount of Extension \(Printer Driver Functions \(Macintosh\)\)](#)
- [Amount of Extension \(Printer Driver Functions \(Windows\)\)](#)
- [Auto Power Off Setting \(BJ Printer Utility \(Macintosh\)\)](#)
- [Auto Power \(Printer Driver Functions \(Windows\)\)](#)
- [Auto Sheet Feeder](#)
- [Automatic Image Optimize \(Macintosh\)](#)
- [Automatic Image Optimize \(Windows\)](#)

B

- [Background](#)
- [Background first page only](#)
- [Background printing](#)
- [Battery Level Information](#)
- [BJ Printer Utility](#)
- [BJ Status Monitor \(BJ Status Monitor Functions\)](#)
- [BJ Status Monitor \(Problems Relating to Windows\)](#)
- [Bluetooth Settings \(Macintosh\)](#)
- [Bluetooth Settings \(Windows\)](#)
- [Bluetooth unit connector](#)
- [Booklet Printing](#)
- [Border](#)
- [Borderless Printing \(Photo Printing Dialog \(Macintosh\)\)](#)
- [Borderless Printing \(Photo Printing Dialog \(Windows\)\)](#)
- [Borderless Printing \(PictBridge Dialog \(Macintosh\)\)](#)
- [Borderless Printing \(PictBridge Dialog \(Windows\)\)](#)
- [Borderless Printing \(Printer Driver Functions \(Macintosh\)\)](#)
- [Borderless Printing \(Printer Driver Functions \(Windows\)\)](#)
- [Bottom Plate Cleaning \(BJ Printer Utility \(Macintosh\)\)](#)
- [Bottom Plate Cleaning \(Printer Driver Functions \(Windows\)\)](#)
- [Brightness](#)

C

- [Change the print data size to match the port.](#)
- [Charger Connector](#)
- [Cleaning \(BJ Printer Utility \(Macintosh\)\)](#)
- [Cleaning \(Printer Driver Functions \(Windows\)\)](#)
- [Cleaning the Inside of the Printer](#)
- [Collate](#)
- [Collated](#)
- [Color Adjustment](#)
- [Color Balance](#)
- [Color Conversion](#)
- [Color Correction](#)
- [Compatible Media Types](#)

[Copies](#)

[Custom Settings \(BJ Printer Utility \(Macintosh\)\)](#)

[Custom Settings \(Printer Driver Functions \(Windows\)\)](#)

D

[Deep Cleaning \(BJ Printer Utility \(Macintosh\)\)](#)

[Deep Cleaning \(Print Head Deep Cleaning\)](#)

[Deep Cleaning \(Printer Driver Functions \(Windows\)\)](#)

[Define Stamp](#)

[Delete \(Printer Driver Functions \(Macintosh\)\)](#)

[Delete \(Printer Driver Functions \(Windows\)\)](#)

[Deleting Selected Printers](#)

[Description](#)

[Details](#)

[Digital camera](#)

[Digital video camcorder](#)

[Direct Print Port](#)

[Do not use quiet mode](#)

[Document Print Settings \(Macintosh\)](#)

[Document Print Settings \(Windows\)](#)

[Duplex Printing](#)

[Duplicate](#)

E

[Easy-PhotoPrint](#)

[Effects Tab](#)

[Envelopes](#)

[Error Message](#)

[Examining the Nozzle Check Pattern](#)

F

[Fit-to-Page Printing](#)

[Format for](#)

G

[Glossy Photo Paper GP-401](#)

[Grayscale Printing \(Printer Driver Functions \(Macintosh\)\)](#)

[Grayscale Printing \(Printer Driver Functions \(Windows\)\)](#)

H

[Halftoning](#)

[High Resolution Paper HR-101N](#)

I

[Image Optimizer](#)

[Infrared / Bluetooth connection Print Settings \(Macintosh\)](#)

[Infrared / Bluetooth connection Print Settings \(Windows\)](#)

[Ink Counter Reset \(Printer Driver Functions \(Macintosh\)\)](#)

[Ink Counter Reset \(Printer Driver Functions \(Windows\)\)](#)

[Ink Drying Wait Time](#)

[Ink Level](#)

[Ink Tank](#)

[Ink Usage Control](#)

[Intensity](#)

[IrDA Interface Port](#)

L

[Language \(Option Setting Dialog \(Macintosh\)\)](#)

[Language \(Option Setting Dialog \(Windows\)\)](#)

[Layout \(Document Printing Dialog \(Macintosh\)\)](#)
[Layout \(Document Printing Dialog \(Windows\)\)](#)
[Layout \(Photo Printing Dialog \(Macintosh\)\)](#)
[Layout \(Photo Printing Dialog \(Windows\)\)](#)
[Layout Direction](#)
[Low Ink Warning Setting \(How Low Ink Warning Setting Works\)](#)
[Low Ink Warning Setting \(Printer Driver Functions \(Windows\)\)](#)

M

[Main Tab](#)
[Maintenance Tab](#)
[Margin](#)
[Matte Photo Paper MP-101](#)
[Media Type \(Document Printing Dialog \(Macintosh\)\)](#)
[Media Type \(Document Printing Dialog \(Windows\)\)](#)
[Media Type \(Photo Printing Dialog \(Macintosh\)\)](#)
[Media Type \(Photo Printing Dialog \(Windows\)\)](#)
[Media Type \(PictBridge Dialog \(Macintosh\)\)](#)
[Media Type \(PictBridge Dialog \(Windows\)\)](#)
[Media Type \(Printer Driver Functions \(Macintosh\)\)](#)
[Media Type \(Printer Driver Functions \(Windows\)\)](#)
[Monochrome Effects \(Printer Driver Functions \(Macintosh\)\)](#)
[Monochrome Effects \(Printer Driver Functions \(Windows\)\)](#)

N

[New](#)
[Normal-size Printing](#)
[Nozzle Check \(BJ Printer Utility \(Macintosh\)\)](#)
[Nozzle Check \(Printer Driver Functions \(Windows\)\)](#)

O

[Opening the Printer Properties Dialog Box](#)
[Operation Panel](#)
[Orientation \(Printer Driver Functions \(Macintosh\)\)](#)
[Orientation \(Printer Driver Functions \(Windows\)\)](#)

P

[Page Attributes Summary](#)
[Page Layout Printing](#)
[Page Setup Tab](#)
[Page Size](#)
[Pages](#)
[Pages per Sheet](#)
[Paper Guide](#)
[Paper Output Slot Cover](#)
[Paper Size \(Custom Paper Size \(Macintosh\)\)](#)
[Paper Size \(Document Printing Dialog \(Macintosh\)\)](#)
[Paper Size \(Document Printing Dialog \(Windows\)\)](#)
[Paper Size \(Page Attributes \(Macintosh\)\)](#)
[Paper Size \(Photo Printing Dialog \(Macintosh\)\)](#)
[Paper Size \(Photo Printing Dialog \(Windows\)\)](#)
[Paper Size \(PictBridge Dialog \(Macintosh\)\)](#)
[Paper Size \(PictBridge Dialog \(Windows\)\)](#)
[Paper Support](#)
[Paper Thickness Lever](#)
[Photo Noise Reduction \(Printer Driver Functions \(Macintosh\)\)](#)
[Photo Noise Reduction \(Printer Driver Functions \(Windows\)\)](#)

[Photo Optimizer PRO](#)
[Photo Paper Plus Double Sided PP-101D](#)
[Photo Paper Plus Glossy PP-101](#)
[Photo Paper Plus Semi-Gloss SG-101](#)
[Photo Paper Pro PR-101](#)
[Photo Print Settings \(Macintosh\)](#)
[Photo Print Settings \(Windows\)](#)
[Photo Stickers PS-101](#)
[PictBridge Print Settings \(Macintosh\)](#)
[PictBridge Print Settings \(Windows\)](#)
[Place stamp over text](#)
[Poster Printing](#)
[POWER Button](#)
[POWER Lamp](#)
[Power Off](#)
[Presets](#)
[Preview](#)
[Preview before printing](#)
[Print](#)
[Print Advisor](#)
[Print Center](#)
[Print Head Alignment \(BJ Printer Utility \(Macintosh\)\)](#)
[Print Head Alignment \(Printer Driver Functions \(Windows\)\)](#)
[Print Head Cleaning](#)
[Print Head Cover](#)
[Print Head Deep Cleaning](#)
[Print Head Holder](#)
[Print Head Lock Lever](#)
[Print Mode](#)
[Print Options](#)
[Print Quality \(Printer Driver Functions \(Macintosh\)\)](#)
[Print Quality \(Printer Driver Functions \(Windows\)\)](#)
[Print Type](#)
[Printable area](#)
[Printer](#)
[Printer Driver \(Macintosh\)](#)
[Printer Driver \(Windows\)](#)
[Printer Margins](#)
[Printer Setup Utility](#)
[Printing Area](#)
[Printing Photographs](#)
[Printing Profiles](#)
[Printing the Nozzle Check Pattern](#)
[Printing Type \(Document Printing Dialog \(Macintosh\)\)](#)
[Printing Type \(Document Printing Dialog \(Windows\)\)](#)
[Printing Type \(Photo Printing Dialog \(Macintosh\)\)](#)
[Printing Type \(Photo Printing Dialog \(Windows\)\)](#)
[Printing Type \(PictBridge Dialog \(Macintosh\)\)](#)
[Printing Type \(PictBridge Dialog \(Windows\)\)](#)
[Printing Type \(Printer Driver Functions\)](#)
[Profiles Tab](#)

Q

[Quartz Filter](#)
[Quiet Mode \(BJ Printer Utility \(Macintosh\)\)](#)

[Quiet Mode \(Printer Driver Functions \(Windows\)\)](#)

R

[Remaining Battery Level](#)

[Remaining Ink Level Indicator Setting](#)

[Replacing an Ink Tank](#)

[RESUME/CANCEL Button](#)

[Retrieve from Profiles](#)

[Reverse Order](#)

[Reverse page order](#)

S

[Safety Precautions](#)

[Save](#)

[Save as File](#)

[Save as PDF](#)

[Save Black Ink](#)

[Scale](#)

[Scaled Printing](#)

[Select Background](#)

[Setup Utility \(Macintosh\)](#)

[Setup Utility \(Windows\)](#)

[Simulate Illustration \(Printer Driver Functions \(Macintosh\)\)](#)

[Simulate Illustration \(Printer Driver Functions \(Windows\)\)](#)

[Specifications](#)

[Specify Margin](#)

[Stamp](#)

[Stamp first page only](#)

[Stamp/Background Tab](#)

[Staple Side](#)

[Stapling Side](#)

[Start Status Monitor](#)

[Summary \(Page Setup Dialog Box \(Macintosh\)\)](#)

[Summary \(Print Dialog Box \(Macintosh\)\)](#)

T

[Time difference with GMT \(Option Setting Dialog \(Macintosh\)\)](#)

[Time difference with GMT \(Option Setting Dialog \(Windows\)\)](#)

[Transparencies CF-102](#)

[Transporting Printer](#)

[Traveling Abroad with the Printer](#)

[T-Shirt Transfers TR-301](#)

U

[Uninstalling Printer Drivers](#)

[Uninstalling the On-screen Manual](#)

[Update \(Battery Level Information\)](#)

[Update \(Ink Level Information\)](#)

[USB Port](#)

[Use Composite Black](#)

[Use quiet mode](#)

[Use quiet mode within specified time](#)

V

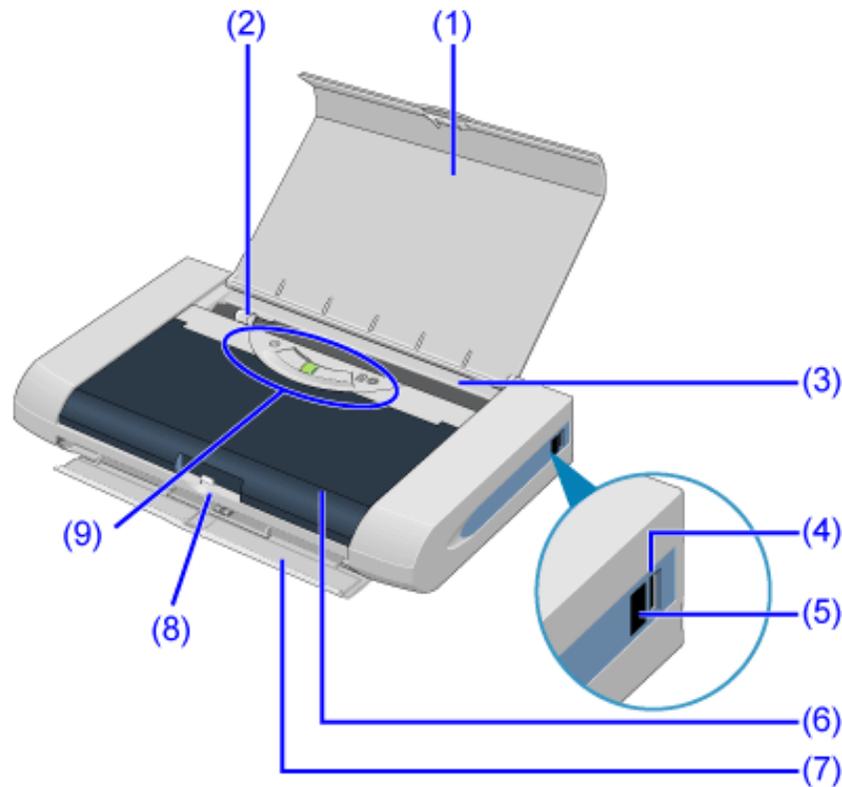
[Vivid Photo \(Printer Driver Functions \(Macintosh\)\)](#)

[Vivid Photo \(Printer Driver Functions \(Windows\)\)](#)

W

Printer Parts and Their Function

Front View



(1) Paper Support

Open before printing to support paper.

(2) Paper Guide

[Table of Contents](#)

[How to Use This Manual](#)

[Safety Precautions](#)

▼ [Printer Parts and Their Function](#)

● [Front View](#)

● [Operation Panel](#)

● [Rear View](#)

● [Inside the Printer](#)

▶ [Further Printing Techniques](#)

▶ [Printing Media](#)

▶ [Checking the Status of the Printer](#)

▶ [Routine Maintenance](#)

▶ [Using the Canon iP90 Setup Utility](#)

▶ [Troubleshooting](#)

▶ [Appendix](#)

[Index](#)

When loading paper, ensure the left edge just touches this guide.
To move the Paper Guide, slide it in the appropriate direction.

(3) Auto Sheet Feeder

Load paper here. Paper feeds automatically, one sheet at a time.

(4) Direct Print Port

Connects the printer to a Canon digital camera/PictBridge compliant camera.

(5) IrDA Interface Port

Connects the printer to a computer through a wireless IrDA connection.

(6) Print Head Cover

Open to replace the ink tanks.

(7) Paper Output Slot Cover

Printed paper ejects here.

(8) Paper Thickness Lever

Adjusts the gap between the Print Head and surface of the printing paper. Move the lever to the correct position for the media in use.

(9) Operation Panel

See [Operation Panel](#)



[Table of Contents](#)[How to Use This Manual](#)[Safety Precautions](#)[▶ Printer Parts and Their Function](#)[▼ Further Printing Techniques](#)[● Printing Photographs](#)[Windows](#)[● Printer Driver Functions](#)[Macintosh](#)[● Printer Driver Functions](#)[Macintosh](#)[● BJ Printer Utility](#)[▶ Printing Media](#)[▶ Checking the Status of the Printer](#)[▶ Routine Maintenance](#)[▶ Using the Canon iP90 Setup Utility](#)[▶ Troubleshooting](#)[▶ Appendix](#)[Index](#)

Further Printing Techniques

Printing Photographs

Using Easy-PhotoPrint allows you to make borderless (full page) prints from images you took with a digital camera.

Easy-PhotoPrint supports Exif Print.

The image captured with an Exif Print-compliant digital camera can be optimized using data, such as camera settings (white balance, exposure time), etc. stored at the time of shooting, yielding extremely high-quality prints.

- The photo applications are included in the *Setup Software & User's Guide CD-ROM* that comes with the printer. You can install the Easy-PhotoPrint program. Just go to your setup guide and follow the instructions.
- This chapter describes the steps used to print borderless photos with Easy-PhotoPrint under Windows XP. The steps used under Macintosh are basically the same. You can edit images taken with a digital camera by using the Red-Eye Correction and Digital Face Smoothing functions, and then print them with Easy-PhotoPrint.
- Easy-PhotoPrint can handle only JPEG files (file name extension: .jpg and .jpeg).

Note Media Types Suitable for Borderless Printing

- Photo Paper Plus Glossy (Letter/A4, 4" x 6" / 101.6 x 152.4 mm, 5" x 7" / 127.0 x 177.8 mm)
- Photo Paper Plus Semi-Gloss (Letter/A4, 4" x 6" / 101.6 x 152.4 mm)
- Photo Paper Plus Double Sided (Letter/A4, 5" x 7" / 127.0 x 177.8 mm)
- Photo Paper Pro (Letter/A4, 4" x 6" / 101.6 x 152.4 mm)
- Matte PhotoPaper (Letter/A4)
- Glossy Photo Paper (Letter/A4, 4" x 6" / 101.6 x 152.4 mm, Credit Card)

■ **Printing Photographs**

1 Start Easy-PhotoPrint.

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

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

(2) Windows

Click **Start** , select **All Programs** (or **Programs**), **Canon Utilities** , **Easy-PhotoPrint** , and then **Easy-PhotoPrint**.

Macintosh

Double-click the hard disk icon, the **Applications** folder, the **Easy-PhotoPrint** folder, and then double-click the **Easy-PhotoPrint** icon.

The  **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.

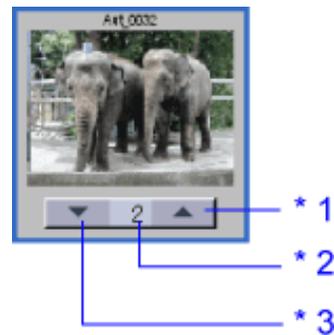


*1 Guidance

*2 Thumbnail

*3 Folder window

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



*1 Increases the number of copies.

*2 Displays the specified number of copies.

*3 Decreases the number of copies.

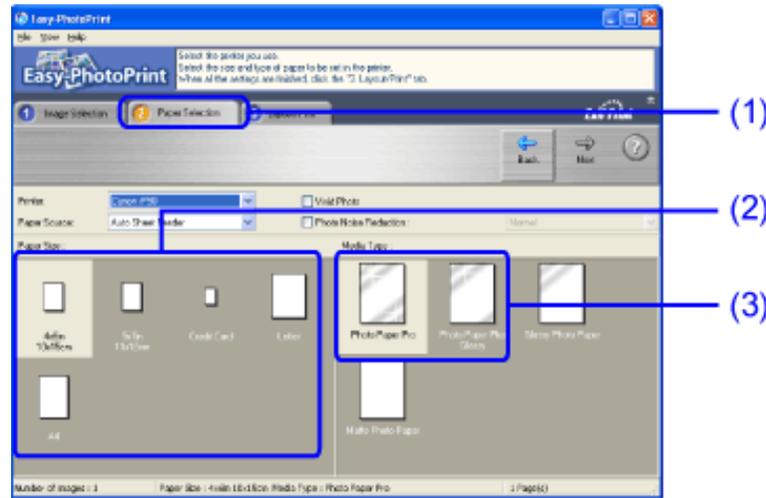


Note

Clicking the **Correct/Enhance** button on the **1 Image Selection** tab allows you to edit and enhance the photos to be printed. For more information, refer to the *Photo Application Guide*.

3 Select the paper.

- (1) Click the **2** Paper Selection tab.
- (2) Select the size of the paper you use from **Paper Size**.
- (3) Select the type of the paper you use from **Media Type**.



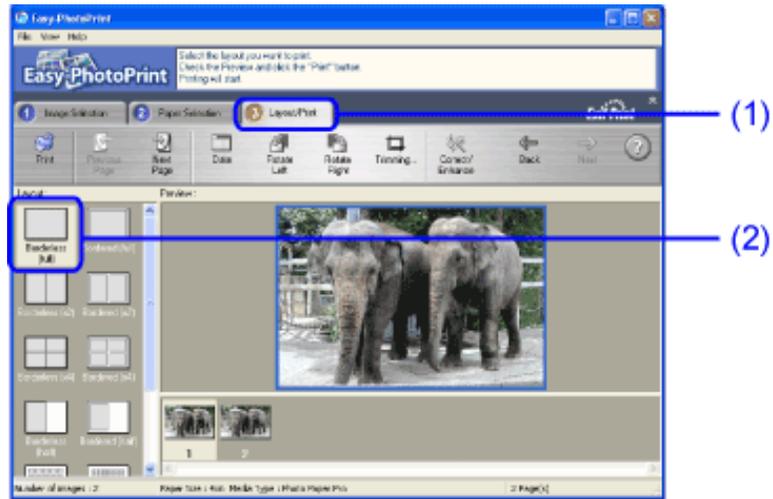
4 Select the layout.

- (1) Click the **3** Layout/Print tab.
- (2) Select **Borderless (full)**.



Note

Clicking the **Correct/Enhance** button on the **3** **Layout/Print** tab allows you to edit and enhance the photos to be printed. For more information, refer to the *Photo Application Guide*.



(3) Load the media specified in the **2** **Paper Selection** tab.

(4) **Windows**

Click **Print**.

Macintosh

Click **Print**. When the confirmation message is displayed, click **OK**. Click **Print** in the **Print** dialog box.



[Table of Contents](#)[How to Use This Manual](#)[Safety Precautions](#)[▶ Printer Parts and Their Function](#)[▶ Further Printing Techniques](#)[▼ Printing Media](#)[● Compatible Media Types](#)[● Photo Paper Pro PR-101](#)[● Photo Paper Plus Glossy PP-101](#)[● Photo Paper Plus Semi-Gloss SG-101](#)[● Matte Photo Paper MP-101](#)[● Glossy Photo Paper GP-401](#)[● High Resolution Paper HR-101N](#)[● Photo Paper Plus Double Sided PP-101D](#)[● T-Shirt Transfers TR-301](#)[● Transparencies CF-102](#)[● Photo Stickers PS-101](#)[● Envelopes](#)[▶ Checking the Status of the Printer](#)[▶ Routine Maintenance](#)[▶ Using the Canon iP90 Setup Utility](#)[▶ Troubleshooting](#)[▶ Appendix](#)[Index](#)

Printing Media

Compatible Media Types

You can use the following types of paper and other media.

■ Size

- Standard paper: From A5 size (148.0 x 210.0 mm / 5.83 x 8.27 in) to legal size (215.9 x 355.6 mm / 8.5 x 14.0 in)
- Non-standard paper: From 54.0 x 86.0 mm to 215.9 x 584.2 mm (From 2.13 x 3.39 in to 8.5 x 23.0 in)
- Others: Envelopes (European DL and US Com. #10)

Important 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
- Paper that is too thin (less than 64 gsm / 17 lb)
- Paper that is too thick *(more than 105 gsm / 28 lb)
- Picture postcards
- Postcards with an affixed photo or sticker
- Envelopes with double flap
- Envelopes with pressure seals
- Envelopes with an embossed or treated surface

* non-Canon branded paper

■ Weight

64 to 105 gsm (17 to 28 lb)

Do not use paper heavier than this (except for supported Canon-brand media), as it could jam in the paper.

■ Types

The following types of media can be used.

For more information about the media and the printing methods, refer to the specific sections.

Plain paper

Refer to your setup guide for instructions on how to print with plain papers.

See [Photo Paper Pro PR-101](#)

See [Photo Paper Plus Glossy PP-101](#)

See [Photo Paper Plus Semi-Gloss SG-101](#)

See [Matte Photo Paper MP-101](#)

See [Glossy Photo Paper GP-401](#)

See [High Resolution Paper HR-101N](#)

See [Photo Paper Plus Double Sided PP-101D](#)

See [T-Shirt Transfers TR-301](#)

See [Transparencies CF-102](#)

See [Photo Stickers PS-101](#)

See [Envelopes](#)

Important Put unused papers back into the package, and store them avoiding high temperature, humid and direct sunlight.



[Table of Contents](#)[How to Use This Manual](#)[Safety Precautions](#)[▶ Printer Parts and Their Function](#)[▶ Further Printing Techniques](#)[▶ Printing Media](#)[▼ Checking the Status of the Printer](#)**Windows**[● BJ Status Monitor Functions](#)**Macintosh**[● Printer Setup Utility \(or Print Center\)](#)[▶ Routine Maintenance](#)[▶ Using the Canon iP90 Setup Utility](#)[▶ Troubleshooting](#)[▶ Appendix](#)[Index](#)

Checking the Status of the Printer

Windows

BJ Status Monitor Functions

The BJ Status Monitor allows you to check the status of the printer.

If an error occurs, the status monitor indicates the nature of the error and suggests an appropriate solution.

The status monitor also checks the ink tanks or battery and displays a warning message when the ink or battery charge level is low.

Note In Windows XP or Windows 2000

The BJ Status Monitor screen is not displayed when infrared communications are used.

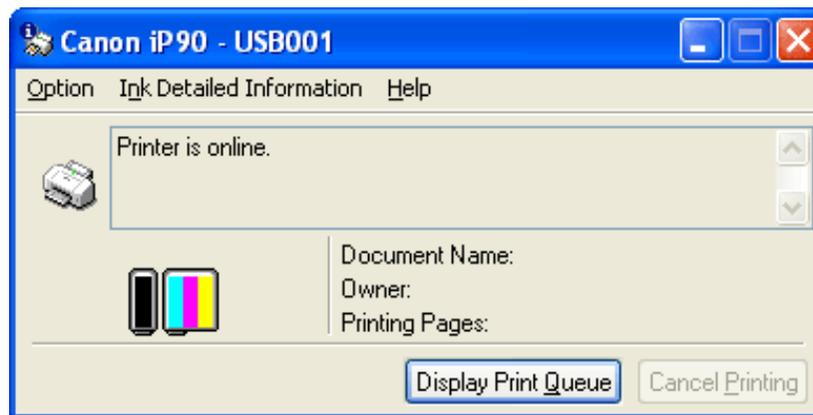
■ Launching the BJ Status Monitor

The BJ Status Monitor launches automatically when data is sent to the printer. When launched, the BJ Status Monitor appears as an icon on the Task Bar.

1 Click the Canon iP90 button (or BJ Status Monitor) on the Task Bar.



The BJ Status Monitor appears.



 **Note** To open the BJ Status Monitor when the printer is not printing, click the **Maintenance** tab in the Printer Properties dialog box and click the **Start Status Monitor** button.

See [Opening the Printer Properties Dialog Box](#)

■ When errors occur

The error message dialog is automatically displayed when an error occurs, e.g. if the printer runs out of paper or if the ink is low.

In such cases, take the appropriate action as described.

 **Note** For details on the BJ Status Monitor, select the **Help** menu and click on the topic of interest.



- [Table of Contents](#)
- [How to Use This Manual](#)
- [Safety Precautions](#)
- ▶ [Printer Parts and Their Function](#)
- ▶ [Further Printing Techniques](#)
- ▶ [Printing Media](#)
- ▶ [Checking the Status of the Printer](#)
- ▼ [Routine Maintenance](#)
 - [When Printing Becomes Faint or Colors are Incorrect](#)
 - [Printing the Nozzle Check Pattern](#)
 - [Print Head Cleaning](#)
 - [Print Head Deep Cleaning](#)
 - [Aligning the Print Head](#)
 - [Replacing an Ink Tank](#)
- ▶ [Using the Canon iP90 Setup Utility](#)
- ▶ [Troubleshooting](#)
- ▶ [Appendix](#)
- [Index](#)

Routine Maintenance

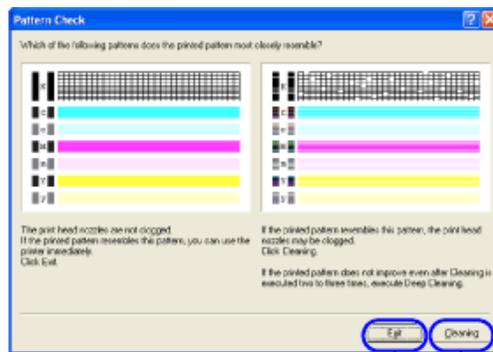
When Printing Becomes Faint or Colors are Incorrect

When printing becomes faint or colors are incorrect, the Print Head Nozzles are probably clogged. Follow the procedures below to clean the nozzles.

Note Before Performing Maintenance

- Push the  on the ink tank to ensure that it is firmly snapped into place.
See [Replacing an Ink Tank](#)
- Setting the Print Quality setting to High for Windows or Fine for Macintosh with the printer driver may improve the print quality.
See [Main Tab](#) (Windows), [Quality & Media \(Print Dialog Box\)](#) (Macintosh)

Step 1
See [Printing the Nozzle Check Pattern](#)



- (1) If the pattern is printed normally, click Exit.
- (2) If the print quality is poor, perform Print Head Cleaning.

Step 2
See [Print Head Cleaning](#)

After Print Head Cleaning,
print the nozzle check pattern.

If the problem remains after performing
Print Head Cleaning three times

Step 3

See [Print Head Deep Cleaning](#)

If the problem still remains

Step 4

See [Replacing an Ink Tank](#)



Note

- If ruled lines are printed misaligned when printed, adjust the Print Head position.

See [Aligning the Print Head](#)

- If ink tank replacement does not resolve the problem, a Print Head may be worn out. In this case, contact a Canon service representative.



[Table of Contents](#)[How to Use This Manual](#)[Safety Precautions](#)[▶ Printer Parts and Their Function](#)[▶ Further Printing Techniques](#)[▶ Printing Media](#)[▶ Checking the Status of the Printer](#)[▶ Routine Maintenance](#)[▼ Using the Canon iP90 Setup Utility](#)[● Function of the Canon iP90 Setup Utility](#)[● Starting the Canon iP90 Setup Utility](#)**Windows**[● Setup Utility Functions](#)**Macintosh**[● Setup Utility Functions](#)[▶ Troubleshooting](#)[▶ Appendix](#)[Index](#)

Using the Canon iP90 Setup Utility

Function of the Canon iP90 Setup Utility

The Canon iP90 Setup Utility is used to set up the media type, size and print layout to print via infrared communication or PictBridge compliant devices.

Installing the printer driver using the **Easy Install** button in the *Setup Software & User's Guide CD-ROM* will automatically install the Canon iP90 Setup Utility.

 **Note** The Canon iP90 Setup Utility can also set up the print setting via Bluetooth communication.

For more information on settings for printing via Bluetooth communication, refer to the *Bluetooth Unit BU-10 User's Guide*.

Starting the Canon iP90 Setup Utility

Windows

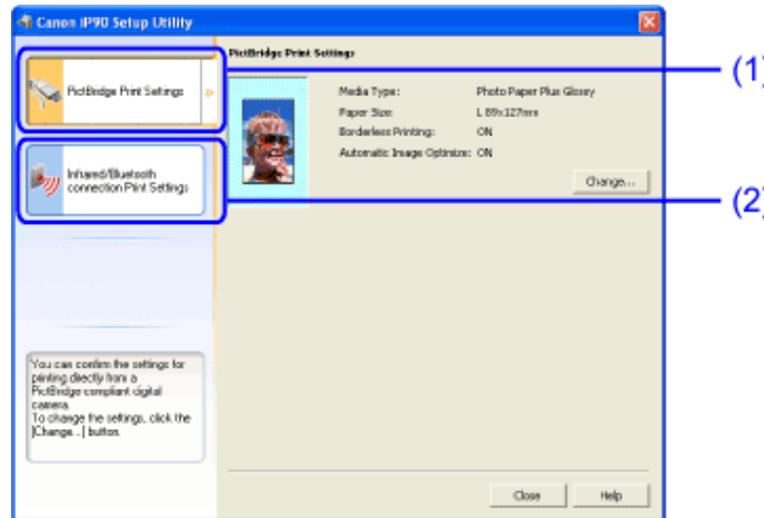
1 Check that the printer is connected with the computer by USB cable, and that the **POWER Lamp** is on.

2 Click Start and select All Programs , Canon Utilities , Canon iP90 Setup Utility and

Canon iP90 Setup Utility.

Or, double-click the **Canon iP90 Setup Utility** icon on the desktop.

3 Click the mode setting tab on the screen.



(1) Select to change the default settings when you print from a PictBridge compliant device.

(2) Select to set up the print settings when you print via an infrared and Bluetooth communication.



Note

- About the settings for printing with PictBridge.
See [PictBridge Print Settings](#)
- About the settings for printing with infrared communication.
See [Infrared / Bluetooth Connection Print Settings](#)

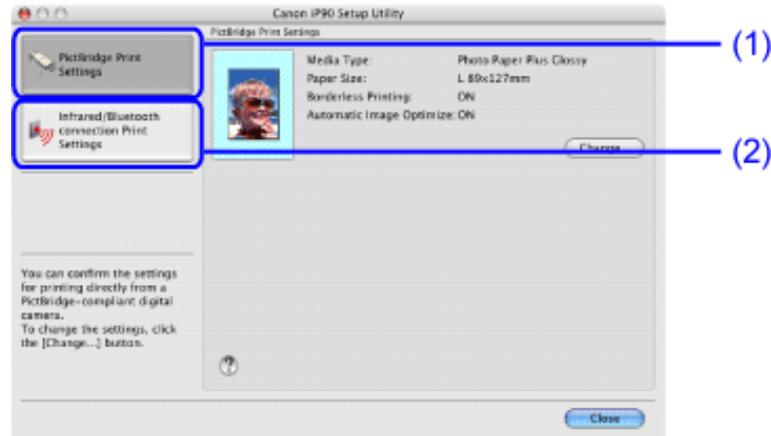
Macintosh

1 Check that the printer is connected with the computer by USB cable, and that the **POWER Lamp** is on.

2 Double-Click the **Applications** folder in the hard disk where the printer driver is

installed, then Canon iP90 Setup Utility folder, and then Canon iP90 Setup Utility icon.

3 Click the mode setting tab on the screen.



(1) Select to change the default settings when you print from a PictBridge compliant device.

(2) Select to set up the print settings when you print via an infrared and Bluetooth communication.



Note

- About the settings for printing with PictBridge.

See [PictBridge Print Settings](#)

- About the settings for printing with infrared communication.

See [Infrared / Bluetooth Connection Print Settings](#)



[Table of Contents](#)[How to Use This Manual](#)[Safety Precautions](#)[▶ Printer Parts and Their Function](#)[▶ Further Printing Techniques](#)[▶ Printing Media](#)[▶ Checking the Status of the Printer](#)[▶ Routine Maintenance](#)[▶ Using the Canon iP90 Setup Utility](#)[▼ 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 Displayed on the Screen](#)[● Cannot Print Properly from the Digital Camera](#)[Windows](#)[● Cannot Print Properly through Infrared Communication](#)[Windows](#)[● Problems Relating to Windows](#)[▶ Appendix](#)[Index](#)

Troubleshooting

Cannot Install Printer Driver

- [Ensure the installation procedure](#)
- [Close any other applications, including anti-virus software, before installation](#)
-  [If the Installer for the printer driver does not start up automatically when you insert the *Setup Software & User's Guide CD-ROM*, click Start, select **My Computer** and then double-click the **CD-ROM icon**](#)
- [Ensure that there are no problems with the *Setup Software & User's Guide CD-ROM*](#)

■ Ensure the installation procedure

Install the printer driver following the procedures described in your setup guide.

If the printer driver was not installed correctly, delete the printer driver and restart your computer. Try to reinstall the printer driver.

See [Uninstalling Printer Drivers](#)

 **Note** If the Installer was forcibly terminated due to an error in Windows, Windows may be unstable and this will prevent the printer driver from being installed.

■ Close any other applications, including anti-virus software, before installation

Sometimes the printer driver cannot be installed because another application is running.



■ **If the Installer for the printer driver does not start up automatically when you insert the *Setup Software & User's Guide CD-ROM*, click Start, select My Computer and then double-click the CD-ROM icon**

For non-Windows XP users, open the **My Computer** window and then double-click the **CD-ROM** icon.

 **Note** If you are typing in the file name, you must specify the CD-ROM drive letter and the installation program ("Msetup4.exe"). The CD-ROM drive letter is computer dependent.

■ **Ensure that there are no problems with the *Setup Software & User's Guide CD-ROM***

In Windows, use Explorer to ensure that the CD-ROM can be read. In Macintosh, check that the CD-ROM icon is visible. If there is a problem with the CD-ROM, contact a Canon service representative.



[Table of Contents](#)
[How to Use This Manual](#)
[Safety Precautions](#)
[▶ Printer Parts and Their Function](#)
[▶ Further Printing Techniques](#)
[▶ Printing Media](#)
[▶ Checking the Status of the Printer](#)
[▶ Routine Maintenance](#)
[▶ Using the Canon iP90 Setup Utility](#)
[▶ Troubleshooting](#)
[▼ Appendix](#)

- [Printing Area](#)

- **Macintosh**

- [Deleting Selected Printers](#)

- [Uninstalling Printer Drivers](#)

- [Uninstalling the On-screen Manual](#)

- [Cleaning the Inside of the Printer](#)

- [Transporting Printer](#)

- [Traveling Abroad with the Printer](#)

- [Specifications](#)

[Index](#)

Appendix

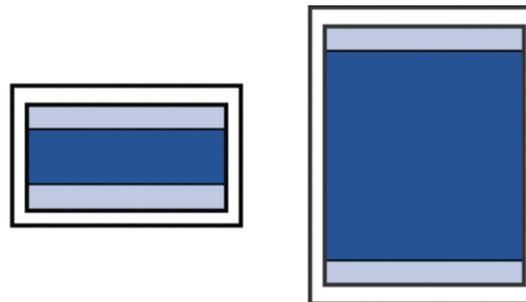
Printing Area

To ensure the best print quality, the printer allows a margin along each edge of media. The actual printable area will be the area without these margins. By selecting Borderless Printing*, printing with no margins is possible.

* This is available in A4/Letter, 4" x 6" / 101.6 x 152.4 mm, 5" x 7" / 127.0 x 177.8 mm and Credit Card paper size.

Recommended printing area (dark blue): Canon recommends that you print within this area. ()

Printable area (light blue): The area where it is possible to print. However, printing in this area can adversely affect the print quality or the paper feed precision. ()



See [A4, B5, A5, 4" x 6", 5" x 7", Credit Card](#)

See [Letter, Legal](#)

See [Envelopes](#)

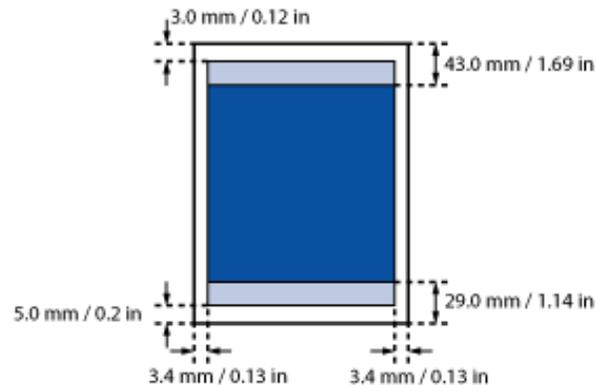
■ A4, B5, A5, 4" x 6", 5" x 7", Credit Card

Size	Printable Area (width x height)
A4	203.2 x 289.0 mm / 8.0 x 11.4 in

B5	175.2 x 249.0 mm / 6.9 x 9.8 in
A5	141.2 x 202.0 mm / 5.6 x 7.9 in
4" x 6" / 101.6 x 152.4 mm	94.8 x 144.4 mm / 3.7 x 5.7 in
5" x 7" / 127.0 x 177.8 mm	120.2 x 169.8 mm / 4.7 x 6.7 in
Credit Card	47.2 x 78.0 mm / 1.86 x 3.07 in

 **Note** When Printing on Photo Paper Pro PR-101, Glossy Photo Paper GP-401, Photo Paper Plus Glossy PP-101, Photo Paper Plus Semi-Gloss SG-101, Matte Photo Paper MP-101 and Photo Paper Plus Double Sided PP-101D, selection of "Borderless Printing" enables you to make prints with no margins.

However, Borderless Printing may reduce print quality on the top and bottom edges of the paper or cause it to become smudged.



-  Recommended printing area
-  Printable area

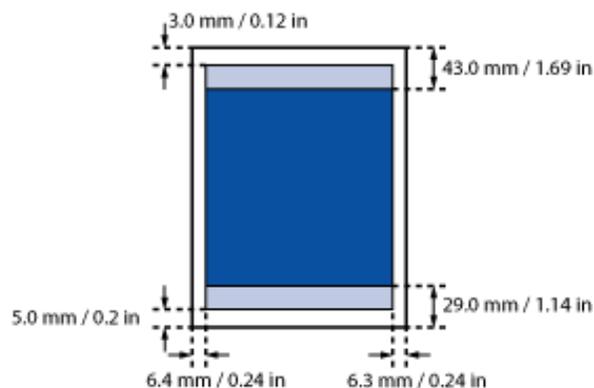
■ Letter, Legal

Size	Printable Area (width x height)
Letter	203.2 x 271.4 mm / 8.0 x 10.7 in

Legal 203.2 x 347.6 mm / 8.0 x 13.7 in

Note When Printing on Photo Paper Pro PR-101, Glossy Photo Paper GP-401, Photo Paper Plus Glossy PP-101, Photo Paper Plus Semi-Gloss SG-101, Matte Photo Paper MP-101 and Photo Paper Plus Double Sided PP-101D, selection of "Borderless Printing" enables you to make prints with no margins.

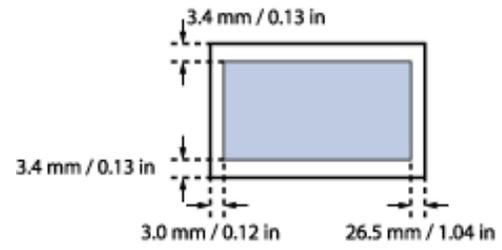
However, Borderless Printing may cause the top and bottom edges of paper to decrease in print quality or become soiled
(Under certain circumstances, the edges of the reverse side may be smudged).



- Recommended printing area
- Printable area

■ Envelopes

Size	Printable Area (width x height)
European DL	190.5 x 103.2 mm / 7.5 x 4.1 in
US Com. #10	211.8 x 97.97 mm / 8.34x 3.86 in



 Printable area



FAQS

- [Printing is Blurred/Colors are Wrong](#)
- [Printer Moves But The Ink Is Not Ejected](#)
- [Cannot Install Printer Driver](#)
- [Printing Does Not Start](#)
- [The POWER Lamp Flashes Orange](#)
- [Error Writing/Output to USBnnn or MPUSBPRNnn](#)
- [Colors are Unclear](#)
- [Paper Jams](#)
- [Paper Does Not Feed Properly](#)
- [White Streaks](#)

[Table of Contents](#)[How to Use This Manual](#)[Safety Precautions](#)[▶ Printer Parts and Their Function](#)[▶ Further Printing Techniques](#)[▶ Printing Media](#)[▶ Checking the Status of the Printer](#)[▶ Routine Maintenance](#)[▶ Using the Canon iP90 Setup Utility](#)[▶ Troubleshooting](#)[▶ Appendix](#)[Index](#)

How to Use This Manual

This manual is written in HTML (Hyper Text Markup Language), the language used to display texts and images on Worldwide Web Pages.

Various Web browsers are available for seeing HTML view and therefore the same text or image may appear different depending on the browser you use. This manual has been prepared on the assumption that it would be displayed and read under the following conditions:

Windows

- Web browser: Microsoft® Internet Explorer 5.0 or later.
- Web browser screen: Full screen
- Resolution of display (Desktop): 800 x 600 pixels or above
- Color amount of display: 16 bit or more

Macintosh

- Web browser: Microsoft® Internet Explorer 5.0 or later, Safari 1.0 or later.
- Web browser screen: Full screen
- Resolution of display (Desktop): 800 x 600 pixels or above
- Color amount of display: 32,000 or more

This manual refers to Windows XP Service Pack 2 (hereafter, called Windows XP SP2) and Mac OS X v.10.3.x operation. The operations may vary slightly depending on your operating system.

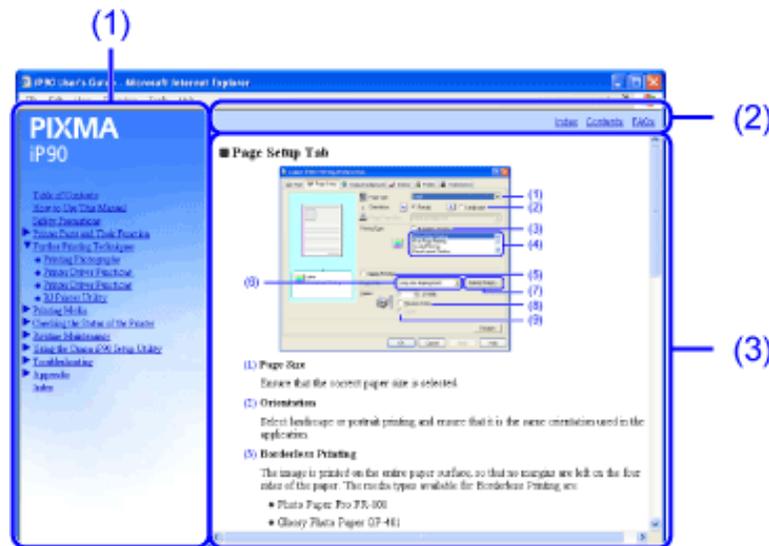
 **Note** The Bluetooth unit is not available to some regions due to the law of the countries or the regulations. For details, contact your local Canon service representative.

How to Read This Manual

Let's take a look at how to read this manual. For instructions on how to use the browser, refer to the User's Guide or Help topics of the browser you use.

■ Manual Configuration

This manual consists of three screens: Contents, Menu, and Description screen.



(1) Contents screen

(2) Menu screen

(3) Description screen

■ Using The Contents Screen

Clicking a title on the Contents screen will display the associated title page on the Description screen.

The title with the ► mark is displayed in two layers. Clicking the ► button will change the mark to the ▼ and the titles in the lower layer displayed.

PIXMA iP90

[Table of Contents](#)
[How to Use This Manual](#)
[Safety Precautions](#)
▶ [Printer Parts and Their Function](#)
▶ [Further Printing Techniques](#)
▶ [Printing Media](#)
▶ [Checking the Status of the Printer](#)
▶ [Routine Maintenance](#)
▶ [Using the Canon iP90 Setup Utility](#)
▶ [Troubleshooting](#)
▶ [Appendix](#)
[Index](#)

PIXMA iP90

[Table of Contents](#)
[How to Use This Manual](#)
[Safety Precautions](#)
▶ [Printer Parts and Their Function](#)
▶ [Further Printing Techniques](#)
▶ [Printing Media](#)
▶ [Checking the Status of the Printer](#)
▼ [Routine Maintenance](#)

- [When Printing Becomes Faint or Colors are Incorrect](#)
- [Printing the Nozzle Check Pattern](#)
- [Print Head Cleaning](#)
- [Print Head Deep Cleaning](#)
- [Aligning the Print Head](#)
- [Replacing an Ink Tank](#)
- [Replacing an Ink Tank](#)
- [Resetting the Ink Counter](#)
- [How Low Ink Warning Setting Works](#)

▶ [Using the Canon iP90 Setup Utility](#)
▶ [Troubleshooting](#)
▶ [Appendix](#)
[Index](#)

■ Using The Menu Screen



- (1) Index: Clicking this option will display a list of indexes in the Description screen.
- (2) Contents: Clicking this option will display a complete contents of titles of this manual.
- (3) FAQs: Clicking this option will display frequently asked questions.

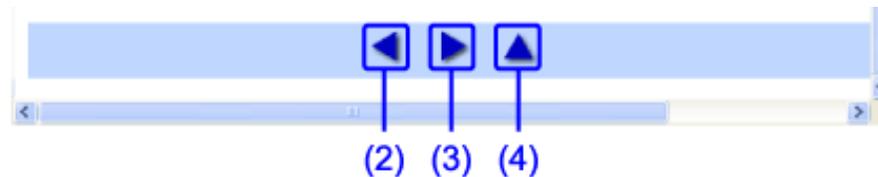
■ Using the Description Screen

Replacing an Ink Tank

If the print result is not improved after maintenance such as Print Head cleaning, an ink tank runs out of ink. Replace the ink tank with a new one. 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.



(1) Clicking the character string with a blue underline allows you to jump to the associated page.



(2)  : Clicking this button allows you to jump to the previous page.

(3)  : Clicking this button allows you to jump to the next page.

(4)  : Clicking this button allows you to jump to the beginning of this page.

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