

Canon

Photo Printer

PIXMA mini 320 series

Direct Photo Guide

Exif Print

PictBridge

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QT51042V01

Getting Help from Canon

Help Us Help You Better

Before you contact Canon, please record the following information.

Serial Number (located on the bottom of the product): _____

Model Number (located on the top of the product): _____

Setup CD-ROM number (located on the CD-ROM): _____

Purchase Date: _____

Customer Technical Support Sequence*

1. Internet — www.canontechsupport.com

For quick and comprehensive self-help in an intuitively guided interactive troubleshooting environment, the place to start is our helpful tech support web site. In addition, the latest driver downloads, answers to frequently asked questions, product information, and “where to buy” instructions are found here.

2. Email Tech Support — www.canontechsupport.com

For individual attention to a special issue, try emailing our friendly technical support representatives, specially trained to communicate quick, easy, and logical solutions to your inquiries within 24 hours.

3. Toll-Free Live Tech Support — (1-800-828-4040)

This option provides live telephone technical support, free of service charges, Monday-Saturday (excluding holidays), during your product’s 1 year limited warranty period. Telephone Device for the Deaf (TDD) support is available at **(1-866-251-3752)**.

4. Extended Service and Support — www.canonesp.com

Canon CarePAK Extended Service Plan is a cost-attractive and easy-to-use extended service program that provides up to three full years of service and support coverage at a very attractive price. CarePAK offers toll-free Canon technical support and includes Canon’s superb InstantExchange product replacement program. For further information about extending your Canon service and support, call **(1-800-385-2155)**, or visit our Web site at www.canonesp.com. CarePAK must be purchased during your product’s warranty period.

For more information and updated program specifics, please visit our web site at www.canontechsupport.com.

*Support program specifics are subject to change without notice.

Canon

PIXMA mini 320 series

Photo Printer

Direct Photo Guide

Introduction

This *Direct Photo Guide* uses the following symbols to indicate important information. Always observe the instructions indicated by these symbols.

Warning

Instructions that, if ignored, could result in death or serious personal injury caused by incorrect operation of the equipment. These must be observed for safe operation.

Caution

Instructions that, if ignored, could result in personal injury or material damage caused by incorrect operation of the equipment. These must be observed for safe operation.

Important

Instructions that must be observed for safe operation.

Depending on your application program, operations may differ. For details, refer to the instruction manual of your application. The steps described in this manual are in Windows Vista™ operating system Ultimate Edition (hereafter referred to as "Windows Vista") and Mac® OS X v.10.4.x.

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- "xD-Picture Card" is a trademark of Fuji Film Co. Ltd.
- "MultiMediaCard" is a trademark of the MultiMediaCard Association.
- "SD Card", "miniSD Card", and "microSD Card" are trademarks of SD Association.
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Exif Print

This printer supports ExifPrint.

Exif Print is a standard for enhancing the communication between digital cameras and printers. By connecting to an Exif Print-compliant digital camera, the camera's image data at the time of shooting is used and optimized, yielding extremely high quality prints.

International ENERGY STAR® Program



As an ENERGY STAR® Partner, Canon Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

Power Requirements

Never use a power supply voltage other than that supplied in the country of purchase. Using the incorrect voltage could cause a fire or electric shock. The correct power supply voltages and frequencies are as follows:

AC 100-240 V, 50/60 Hz

About Consumables

Consumables (ink tanks / FINE Cartridges) are available for 5 years after production has stopped.

Safety Precautions

Warning

- Never attempt to plug the power cord into the power outlet or unplug the power cord when your hands are wet.
- Never damage, modify, stretch, or excessively bend or twist the power cord. Do not place heavy objects on the power cord.
- Never use any power supply other than the standard power supply available in the country of purchase. Using the incorrect voltage and frequency could cause a fire or electric shock.
- Always push the plug all the way into the power outlet.

Caution

- For safety reasons, store ink tanks out of the reach of small children.
- Do not drop or shake ink tanks as this may cause the ink to leak out and stain your clothes and hands.

Also read the "Safety Precautions" on page 50. Observe the warnings and cautions to avoid personal injury or damage to the printer.

How to Use the Documentation Provided



Printed Documentation

Setup Sheet

Be sure to read this sheet first.

This sheet explains how to setup the printer and the procedure to install the printer driver.

Direct Photo Guide (This guide)

Read this guide when starting to use the printer.

This guide explains how to print photos while viewing them on the LCD, and the procedure of doing the regular maintenance of the printer.



On-screen Manuals

User's Guide

Read this guide when starting to use the printer.

If you need further information about the printer, please refer to the *User's Guide*, which can be installed from the *Setup CD-ROM*. This guide provides detailed instructions for printing from your computer.

Additional guides are also available for advanced features.

PC Printing Guide

Refer to this guide for full instructions on printer driver setting.

PC Photo Printing Guide (Windows® only)

Refer to this guide for full instructions on using the various application software included on the *Setup CD-ROM*.

Printer Parts and Their Functions

Main Components

■ Front View

Paper Feed Tray

Open and fold in half before printing to support paper.

Paper Guide

Slide against the left side of the paper stack to support paper so that it feeds properly.

Printer Cover

Open by sliding the Lock Switch to replace the ink tank or remove jammed paper.

LCD Monitor

Displays menus, setting items, and photos for printing. For information on Screen-saver mode, see "Screen-saver mode" on page 7.

Open button

Press to open the Paper Feed Tray and Paper Output Tray.

Operation Panel

Changes the settings and operates the printer. See "Operation Panel" on page 5.

Paper Output Tray

The printed paper will be ejected.

Rear Tray

Load paper here.

IrDA Port

Use this port to perform wireless printing through infrared communication. See "Printing Photographs from a Wireless Communication Device" on page 25.

USB Connector (for computer)

Plug in the USB cable connecting the printer to a computer here.

Direct Print Port

Connect your PictBridge compliant device, such as a digital camera, here to print directly from it. See "Printing Photographs Directly from a Compliant Device" on page 21. You can also connect the Bluetooth Unit BU-20* to perform wireless printing through Bluetooth communication. For details, refer to the *User's Guide* on-screen manual.

Card Slot

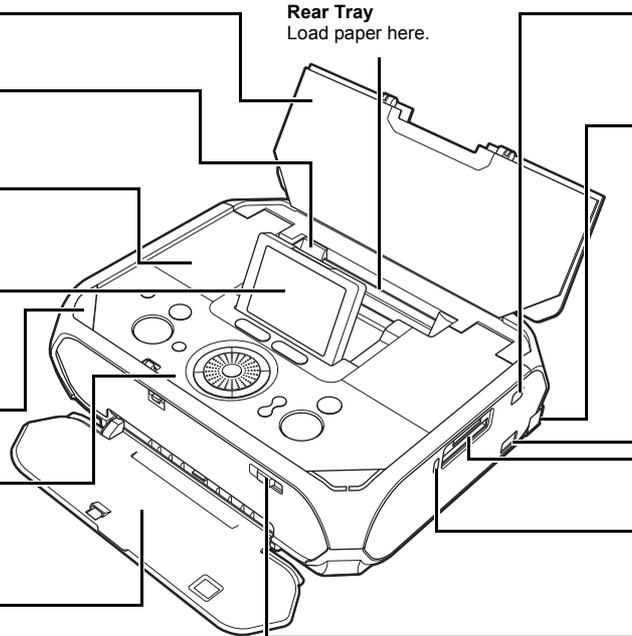
Set the memory card here. See "Using the Memory Card" on page 10.

Access lamp

Lights or flashes to indicate the status of the memory card. See "Inserting the Memory Card" on page 11.

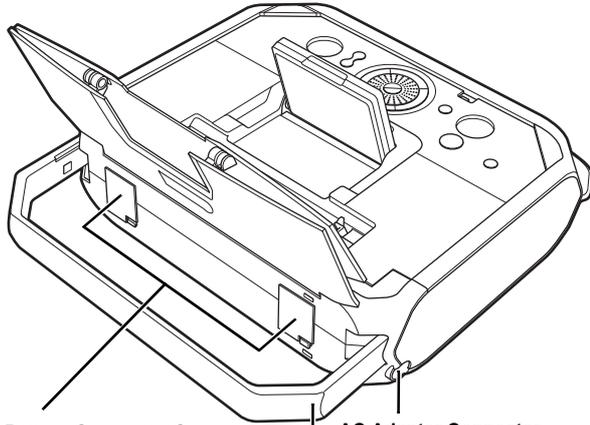
Lock Switch

Slide to the right to open the Printer Cover.



*The Bluetooth unit is not available in some countries or regions depending on the local laws and regulations. For details, contact your local Canon Service representative.

■ Rear View



Battery Connector Cover

Remove each cover to attach the optional Portable Kit. To attach the optional Portable Kit, refer to the instruction manual provided with the Portable Kit.

AC Adapter Connector

Connector used to connect the supplied AC Adapter plug.

Carrying Handle

Pull out this handle to carry the printer.

■ Interior

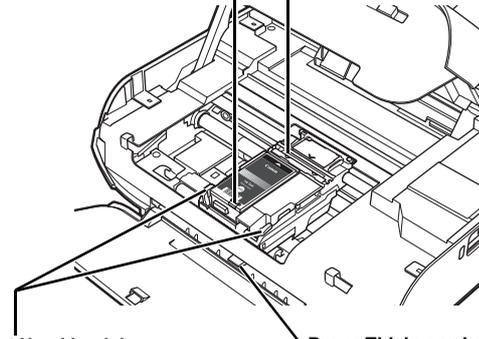
Ink lamp

Lights or flashes red to indicate the status of the ink tank.

See "Replacing an Ink Tank" on page 31.

Print Head Holder

The print head is installed in advance.



Print Head Lock Lever

Locks the Print Head.

⚠ Important

Do not pull this lever up. If you have accidentally pulled them up, adjust the print head position. See "Aligning the Print Head" on page 29.

Paper Thickness Lever

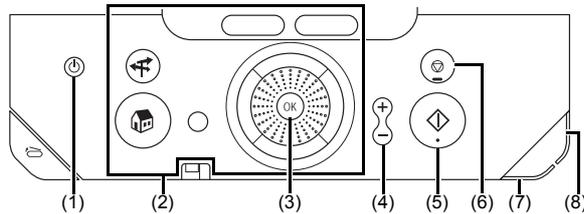
☐ Move to the right when printing.

☐ Move to the left if ink smudges or the printed surface is stained. Return to the right after printing. See "The Paper Thickness Lever position is incorrect." on page 42.

📖 Note

For information on how to install the ink tank, refer to your setup sheet.

■ Operation Panel



(1) ON/OFF button

Turns the printer on and off.
See “Turning On/Off the Printer” on page 6.

(2) Buttons to be used to navigate menus on the LCD

See “How to Navigate Menus on the LCD” on right column.

(3) OK button

Finalizes your selection for the menu or setting item. See “How to Navigate Menus on the LCD” on right column.
Dismisses the error message and resumes the printer's normal operation after resolving a printing error or removing jammed paper.

(4) [+][-] buttons

Specifies the number of copies to print.

(5) Print button

Press to start printing according to the settings displayed on the LCD.

(6) Stop/Reset button

Cancels a print job in progress.

(7) Power lamp

Lights or flashes blue to indicate the power status.

(8) Alarm lamp

Lights or flashes orange when an error, such as paper-out or ink-out, occurs.

📖 Note

Power lamp indicates the power status.

Off: The printer is turned off.

Lighting: The printer is ready to print, is currently printing, or is in operation.

Flashing: The printer is preparing to turn on or off.

How to Navigate Menus on the LCD

(1) Home screen

(2) Left Function button

(3) Right Function button

(4) NAVI button

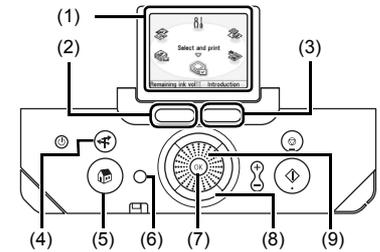
(5) HOME button

(6) Back button

(7) OK button

(8) ▲, ▼, ◀, and ▶ buttons

(9) Easy-Scroll Wheel



■ Basic Operation

This section describes the operation to navigate menus with the **Easy-Scroll Wheel**, ▲, ▼, ◀, and ▶ buttons, and the **OK** button, taking the **HOME** screen as an example.

1 Press the **HOME** button.

The **HOME** screen will appear.

2 Turn the **Easy-Scroll Wheel** to select the menu, then press the **OK** button.

You can turn the **Easy-Scroll Wheel** left or right. You can also use the ◀ or ▶ button to select setting items.

Move the icon of the desired menu to position (A).

The selected menu screen will appear.

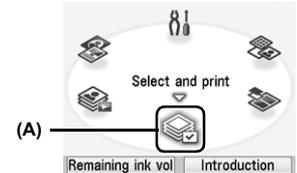
You can select the following menus on the **HOME** screen:

Select and print:

You can print the photos saved on a memory card while displaying on the LCD, and specify the number of copies for each photo listed. See “Selecting Photographs to Print—Select and print” on page 12.

Layout print:

You can print your favorite photo in the specified layout. See “Printing Multiple Photos on One Sheet of Media—Layout print” on page 13.



Create item:

You can create your own items such as stickers or calendars using selected photo, or print your favorite photo with a frame. See "Using Other Useful Printing Function" on page 16.

Special photo print:

You can print all photos saved on a memory card and print photos according to the settings on the camera. You can also print a list of all photos and the photo information when you shot. See "Using Other Useful Printing Function" on page 16.

Settings:

You can perform the maintenance or change the various settings of the printer. See "When Printing Becomes Faint or Colors Are Incorrect" on page 27 or "Changing the Printer Settings" on page 33.

Slide show:

You can display photos saved on a memory card on the LCD sequentially.

■ Operation of Other Buttons

● Function buttons (2), (3)

Two Function buttons enable you to select the menu displayed at the bottom of the LCD.

The screen that appears when you press a Function button depends on the screen that is displayed and which Function button you press.

Left Function button (2): When you press the left Function button on the **HOME** screen, the remaining ink volume screen is displayed.

Right Function button (3): When you press the right Function button on the **HOME** screen, the introductions for the selected menu functions are displayed.

When you press them on the other than the **HOME** screen, the operation procedure or the menus is displayed.

● Back button (6)

You can return the LCD to the previous screen.

● NAVI button (4)

When you do not know how to use the print function for the frequent use or how to load paper, you can easily get the explanation from the navigation menu.

Turning On/Off the Printer

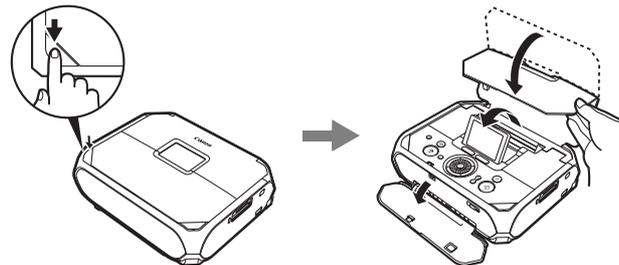
This section describes the method to turn on/off the printer.

■ Turning On the Printer

Note

If the ink tank is not installed, refer to your setup sheet to install it.

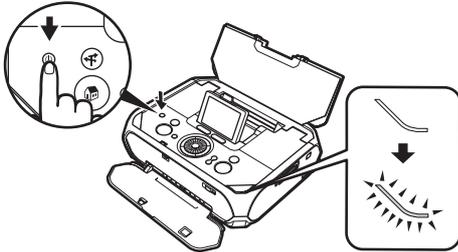
- 1 Plug in the AC Adapter and connect the other end to a power outlet.
- 2 Press the Open button, then open the Paper Feed Tray and the Paper Output Tray, and then fold the Paper Feed Tray in half.



Note

Pull the LCD Monitor up and adjust its angle to a position where you can see it clearly.

- 3 Press the **ON/OFF** button to turn the printer on.



The **Power** lamp flashes, then changes to steady (non-flashing).
The **HOME** screen appears on the LCD.

Note

If the **Alarm** lamp is lit orange and an error message is displayed on the LCD, see "Error Message Is Displayed on the LCD" on page 35.

■ **Turning Off the Printer**

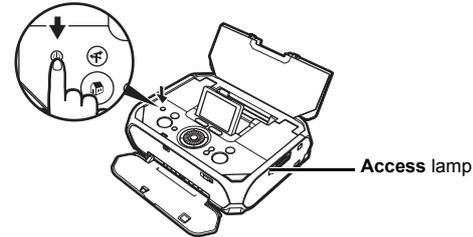
Check the following before turning off the printer.

- The **Access** lamp of the memory card is not flashing.
- The printer is not operating.

Important

The **Access** lamp flashes while the printer is reading or writing data from/to the memory card. Removing the memory card or turning off the printer while the **Access** lamp is flashing may damage the data saved on the memory card.

- 1 Turn off the printer by pressing the **ON/OFF** button.



The **Power** lamp goes out and the power will be turned off.
Push down the LCD Monitor.

- 2 Close the Paper Feed Tray and then the Paper Output Tray.

Note

Power cord

Before unplugging the power cord, turn off the printer and ensure that the **Power** lamp has gone out. You may not be able to print afterward if you unplug the power cord when the **Power** lamp is lit or flashing.

■ **Screen-saver mode**

If you leave the printer more than about 5 minutes without using any button on the operation panel when the printer is turned on, the LCD goes into Screen-saver mode automatically.

Press the **OK** button to resume the LCD.

Note

When using the optional battery, the printer will be turned off automatically after about 5 minutes from when the LCD goes into Screen-saver mode.

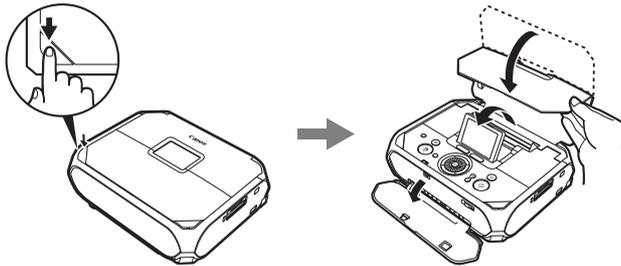
Loading Printing Paper

This section describes the available page size and media type, and how to load paper.

Loading paper

- 1 Turn on the printer.
See "Turning On the Printer" on page 6.

- (1) Press the Open button, then open the Paper Feed Tray and Paper Output Tray, and fold the Paper Feed Tray in half.



Note

Pull up the LCD Monitor and adjust its angle in the position where you can see it clearly.

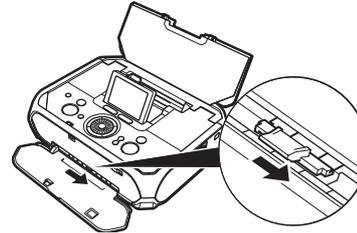
- (2) Press the **ON/OFF** button.

- 2 Flatten the four corners of the paper before loading it.

Note

If paper is curled, gently bend the corners in the opposite direction until the paper becomes flat. See "Paper is curled." on page 42.

- 3 Ensure that the Paper Thickness Lever is set to the right.

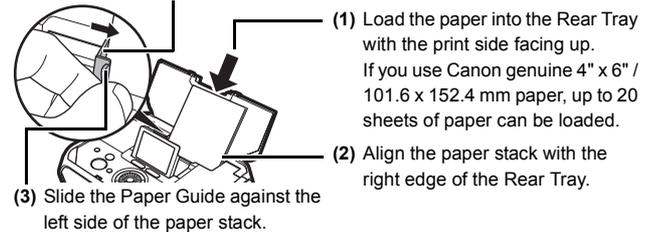


Note

When printing, set the Paper Thickness Lever to the right. Set the Paper Thickness Lever to the left only if ink smudges or the printed surface is stained. Return the Paper Thickness Lever to the right after printing.

- 4 Load the paper.

Do not load higher than the Paper Guide's thickness.



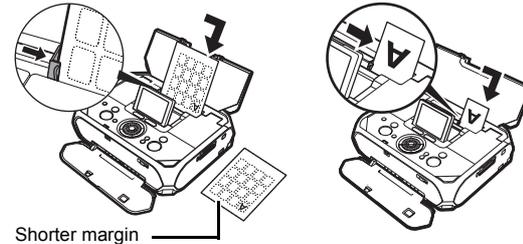
- (1) Load the paper into the Rear Tray with the print side facing up.
If you use Canon genuine 4" x 6" / 101.6 x 152.4 mm paper, up to 20 sheets of paper can be loaded.

- (2) Align the paper stack with the right edge of the Rear Tray.

- (3) Slide the Paper Guide against the left side of the paper stack.

- Photo stickers

- 4" x 6" or Card



Important

Always load paper in portrait orientation.

Printing Media

This section describes the available page size and media type for direct printing. For information of page size and media type when printing from a computer, refer to the *User's Guide* on-screen manual.

Compatible Media Type

Media Type and Model	Printer Setting for Media Type
Glossy Photo Paper GP-401	Glossy Photo Paper
Glossy Photo Paper "Everyday Use" GP-501	Glossy Photo Paper
Photo Paper Glossy GP-502	Glossy Photo Paper
Photo Paper Plus Semi-gloss SG-101, SG-201 ^{*1}	Photo Plus Glossy
Photo Paper Plus Glossy PP-101 ^{*1}	Photo Plus Glossy
Photo Paper Pro PR-101 ^{*1}	Photo Paper Pro
Matte Photo Paper MP-101	Matte Photo Paper
Photo Stickers PS-101 ^{*2}	—

^{*1} When loading a stack of paper, the printed side may become marked as it is fed in. In this case, load paper one sheet at a time.

^{*2} When printing on sticker paper, select **Sticker print** on the **Create item** screen. See "Printing Stickers with a Photo Saved on a Memory Card—Sticker print" on page 17.

Important

- Put unused paper back into the package, and store them avoiding heat, humidity, and direct sunlight.
- Do not touch the printed surface nor stack the printed sheets until the ink is fixed.

Note

- You may not be able to purchase some Canon genuine papers depending on the country or region of purchase.
- For information on the page sizes available for each Canon genuine paper, visit our website.

Paper Support Load Limit

5" x 7" / 127.0 x 177.8 mm: 10 sheets

4" x 6" / 101.6 x 152.4 mm, Wide, and Credit card: 20 sheets

Photo Stickers: 1 sheet

Paper Output Tray Load Limit

We recommend that you remove the previously printed sheet from the Paper Output Tray before continuously printing to avoid blurs and discoloration.

Selectable Page Size

Printer Setting for Page Size	Width x Height
Credit card	2.13 x 3.39 inches / 54.0 x 86.0 mm
4"x6"(101.6x152.4)	4.00 x 6.00 inches / 101.6 x 152.4 mm
5"x7"(127.0x177.8)	5.00 x 7.00 inches / 127.0 x 177.8 mm
Wide 4 x 7.1(101x180)	4.00 x 7.10 inches / 101.6 x 180.6 mm

Paper Handling

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. Also, do not use a cut paper or memo pad.

- Folded, curled, or wrinkled paper
- Damp paper
- Paper that is too thin (weighing less than 17 lb / 64 gsm)
- Picture postcards
- Postcards affixed with photos or stickers
- Any type of paper with holes
- Paper that is not rectangular
- Paper bound with staples or glue
- Paper with adhesives
- Paper decorated with glitter, etc.

Printing from a Memory Card

Using the Memory Card

This section describes the memory cards compatible with this printer, and how to insert and remove them.

■ Memory Cards Supported by this Printer

The following memory cards are compatible with this printer.

Memory cards that can be directly inserted into the Card Slot:	
	<ul style="list-style-type: none"> ● SD Secure Digital memory card ● SDHC memory card ● MultiMediaCard
	<ul style="list-style-type: none"> ● Compact Flash (CF) Card Supports Type I/II (3.3 V) ● Microdrive
	<ul style="list-style-type: none"> ● MEMORY STICK ● MEMORY STICK PRO

Memory cards that can be inserted in the Card Slot using the adapter:	
<p>Important</p> <p>If a memory card is inserted without an adapter, you may not be able to remove the card. Be sure to attach it to the adapter before inserting to the Card Slot.</p>	
	● miniSD Card* ¹
	● microSD Card* ²
	● xD-Picture Card* ³
	<ul style="list-style-type: none"> ● MEMORY STICK Duo*¹ ● MEMORY STICK PRO Duo*¹
	● RS-MMC* ¹

*¹ Use the special adapter provided with the card.

*² Use "SD Card Adapter" provided with the card.

*³ Requires purchase of a separate compact flash card adapter for xD-Picture card.

Important

- If you shot or saved photos on a type of memory card that is not guaranteed operation to be used on your digital camera, the image may be unreadable on this printer. Attempting to read such data on this printer may damage the data. For information on memory cards that your digital camera guarantees operation, refer to the manuals supplied with your digital camera.
- Format the memory card with a digital camera. The memory card may not be usable with the printer if formatted on a computer.
- Do not insert more than one memory card at a time.

■ Printable Image Data

This printer supports JPEG and TIFF images created by DCF ver. 1.0/2.0 standard compliant digital cameras (Exif ver. 2.2/2.21 compliant).

● Important

Compatible image types are limited to JPEG and TIFF only. Other image or movie types such as RAW images cannot be printed.

■ Inserting the Memory Card

This printer is equipped with two Card Slots to meet various types of memory cards. Refer to the illustration on right column to find the Card Slot that corresponds to your memory card. Check the card face and insert it gently until it reaches the bottom and the **Access** lamp turns on. The card's end protrudes from the Card Slot even if it is correctly set.

You can also use the Card Slot as the memory card drive of the computer.

📖 Note

- When **Read/write mode** is selected in **Read/write attribute** under **Device settings** by using the Operation Panel on the printer, card direct printing cannot be done. After using the Card Slot as the memory card drive of the computer, remove the memory card, then be sure to set **Read/write attribute** to **Read-only mode**. See "Changing the Printer Settings" on page 33.
- When you use a computer to edit or process photos saved on a memory card, be sure to print them from the computer. If you print using the Operation Panel, the data may not be printed correctly.

1 Turn on the printer.

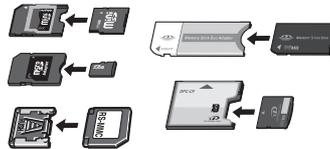
See "Turning On the Printer" on page 6.

2 Attach a card adapter if your memory card requires one.

⚠ Caution

When using miniSD Card, microSD Card, xD-Picture Card, MEMORY STICK Duo, MEMORY STICK PRO Duo, or RS-MMC, be sure to use a card adapter when inserting these cards into the Card Slot.

If one of these cards is inserted without an adapter, you may not be able to remove the card. In this case, see "Cannot Remove a Memory Card" on page 46.



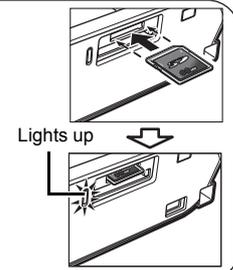
3 Insert only one memory card into the Card Slot.

⚠ Caution

- When a memory card is inserted into the Card Slot, the **Access** lamp is lit. When this **Access** lamp is flashing, the printer is accessing to the memory card. In this case, do not touch around the Card Slot.
- The memory card will stick out of the Card Slot, but do not force it into the slot any further. Doing so damages the printer and the memory card.
- Make sure that the memory card is correctly oriented and labeled side is facing up before inserting it into the Card Slot. If you force the memory card into the Card Slot in the wrong orientation, you may damage the memory card and/or the printer.

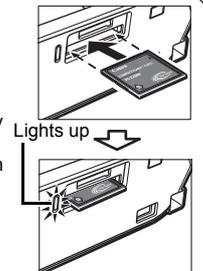
For SD Secure Digital memory card, SDHC memory card, miniSD Card, microSD Card, MultimediaCard, MEMORY STICK, MEMORY STICK PRO, MEMORY STICK Duo, MEMORY STICK PRO Duo, and RS-MMC

Insert the memory card into the upper slot with the labeled side facing up.



For Compact Flash (CF) card, Microdrive, and xD-Picture Card

Insert the memory card into the downside slot with the labeled side facing up.



4 Confirm that the **Access** lamp has lit up.

■ Removing the Memory Card

● Important

If you used the Card Slot as the memory card drive of the computer, you need to do a "safe removal" operation on your computer before physically removing the memory card from your printer.

Windows

Right-click the removable disk icon and click **Eject**. If **Eject** is not displayed on the screen, make sure that the **Access** lamp is not flashing, and then remove the memory card.

Macintosh

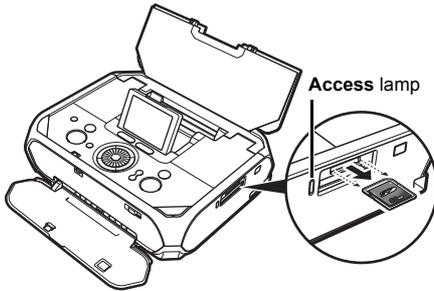
Drag the  icon into the Trash.

- 1 Make sure that the **Access** lamp is lit, then remove the memory card.

Do not remove the memory card while the **Access** lamp is flashing. Hold the part of the memory card that is sticking out to remove it from the printer.

● Important

The **Access** lamp flashes while the printer is reading or writing data from/to the memory card. Removing the memory card or turning off the printer while the **Access** lamp is flashing may damage the data saved on the memory card.



Printing Photographs Saved on a Memory Card

Photos saved on the memory card can be reviewed on the printer's LCD. You can select a photo and print a single copy of the photo, or specify the number of copies to print.

■ Selecting Photographs to Print—Select and print

You can display the photos saved on the memory card on the LCD and print them.

- 1 Prepare for printing.
 - (1) Turn on the printer.
See "Turning On/Off the Printer" on page 6.
 - (2) Load paper.
See "Loading Printing Paper" on page 8.
 - (3) Insert the memory card into the Card Slot.
See "Inserting the Memory Card" on page 11.
- 2 Select **Select and print**  on the **Home** screen, then press the **OK** button.
- 3 Confirm the page size, media type, and other settings, then select **Next**, and then press the **OK** button.

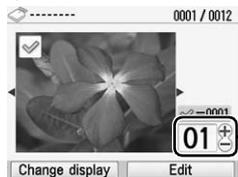
The photo selection screen is displayed.

📄 Note

- To change the settings, select the item and press the **OK** button.
See "Print Setting Screens" on page 15.
-  may be displayed on the LCD while reading the photo.

4 Select the photo to print and specify the number of copies for each photo.

(1) Use the **Easy-Scroll Wheel** or the ◀ or ▶ button to display the photo to print.



(2) Use the [+] or [-] button to specify the number of copies.

(3) Repeat steps (1) and (2) to specify the number of copies for each photo.

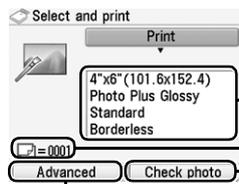
(4) Press the **OK** button.
The print confirmation screen is displayed.

Note

You can do...

- You can change the display for photos. See "Changing the Display—Change display" on page 19.
- You can search for photos with the shooting date. See "Searching for Photos with the Shooting Date—Search" on page 20.
- You can print a specified area. See "Printing a Specified Area—Trimming" on page 19.

5 Start printing.



(1) Confirm the print settings.

Note

To change the print settings, select the item and press the **OK** button. See "Print Setting Screens" on page 15.

(2) Confirm the total number of copies for the selected photos.

(3) Press the right Function button and confirm the selected photos and number of copies for each photo.
Then press the **OK** button to return to the print confirmation screen.

(4) Press the left Function button, and change the Advanced print settings.
See "Print Setting Screens" on page 15.

(5) Press the **Print** button.

The specified number of copies of each photo will be printed.

Note

- When the page size is **Credit card**:
Even if both **Date ON** and **File no. ON** are set, only the shooting date will be printed. If you want to print the file no., select **Date OFF**. It is not possible to print both the shooting date and the file no.
- To cancel printing, press the **Stop/Reset** button.

■ Printing Multiple Photos on One Sheet of Media—Layout print

You can print the specified photos in the specified layout (Borderless or Bordered $\times 2/\times 4/\times 8$ /Half, borderless/Half, bordered/Half, borderless (w/lines)/Half, bordered (w/lines)/Album $\times 4$ (photos on right)/Album $\times 4$ (photos on left)).

Examples:

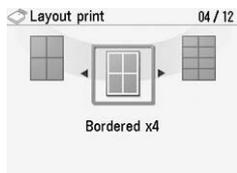


1 Prepare for printing.

- (1) Turn on the printer.
See "Turning On/Off the Printer" on page 6.
- (2) Load paper.
See "Loading Printing Paper" on page 8.
- (3) Insert the memory card into the Card Slot.
See "Inserting the Memory Card" on page 11.

2 Select **Layout print**  on the **Home** screen, then press the **OK** button.

- 3** Use the **Easy-Scroll Wheel** or the ◀ or ▶ button to select the layout, then press the **OK** button.



- 4** Confirm the page size, media type, and print quality, then select **Next**, and then press the **OK** button.

- 5** Select the paste method.

● **Paste automatically**

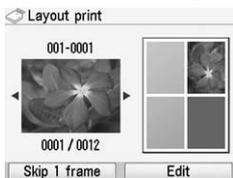
Select the **Search** or **All photos** on the following **Layout print** screen, and proceed to Step 7.

All the photos are pasted automatically in the selected layout.

● **Paste one by one**

Specify to paste photos one by one on the specified layout. Proceed to Step 6.

- 6** Paste photos one by one.



- (1) Use the **Easy-Scroll Wheel** or the ◀ or ▶ button to display the photo you want to paste and press the **OK** button.
The photo is pasted on the layout.

- (2) Repeat (1) for each photo you want to print.
(3) Confirm the layout and then press the **OK** button.
The print confirmation screen is displayed.

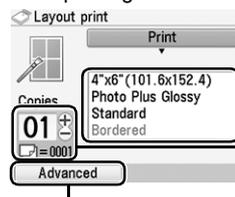
Note

- Press the **Back** button to cancel pasting the specified photo.
- Press the left Function button not to paste a photo in the selected frame.
- You cannot paste photos on more than one page. Start printing once you have pasted photos on one page.

You can do...

- You can search for photos with the shooting date. See "Searching for Photos with the Shooting Date—Search" on page 20.
- You can print a specified area. See "Printing a Specified Area—Trimming" on page 19.

- 7** Start printing.



- (1) Confirm the print settings.

Note

To change the print settings, select the item and press the **OK** button. See "Print Setting Screens" on page 15.

- (2) Use [+] [-] buttons to change the number of copies.

- (3) Press the left Function button, and change the Advanced print settings. See "Print Setting Screens" on page 15.

- (4) Press the **Print** button.

The specified number of copies will be printed.

Note

- Even if both **Date ON** and **File no. ON** are set, only the shooting date will be printed. If you want to print the file no., select **Date OFF**. It is not possible to print both the shooting date and the file no.
- To cancel printing, press the **Stop/Reset** button.

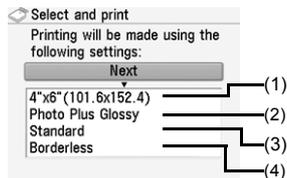
Print Setting Screens

This section describes about the print setting screen and the print confirmation screen displayed during the operation to print photos on a memory card.

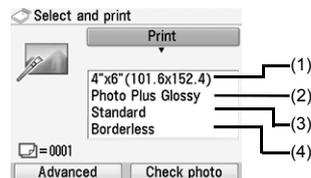
Note

When printing directly from a PictBridge compliant device, see "Setting Items" on page 24. When printing from a wireless communication, see "Setting Items" on page 25.

Print Setting Screen



Print Confirmation Screen



(1) Page size

Select the page size of the loaded paper.

(2) Media type

Select the media type of the loaded paper.

(3) Print quality

Adjust the print quality.

(4) Borderless print

Select bordered or borderless print.

Print Settings

- 1 When the print setting screen or the print confirmation screen is displayed, select the setting item, then press the **OK** button.
The setting screen for the selected item will be displayed.
- 2 Select the page size and the media type, then press the **OK** button.

Note

- For the print setting screen, select **Next** to proceed to the next step.
- For the print confirmation screen, press the **Print** button to start printing.
- The print settings are retained even if the printer is turned off.

Advanced Print Settings Screen

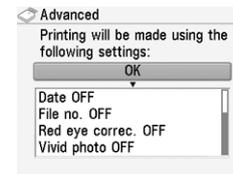
When you press the left Function button in the print settings confirmation screen, the **Auto image fix** screen is displayed.



When **Auto image fix ON** is selected, the scene or person's face of a shot photo is recognized and the most suitable correction for each photo is made automatically. It makes a darkened face by backlight brighter to print. It also analyzes a scene such as scenery, night scene, person, etc. and corrects each scene with the most suitable color, brightness, or contrasts automatically to print.

Note

- Photos in a memory card are printed in Auto image fix as default. In Auto image fix, you can specify only Date or File no. on the next page.
- If you do not satisfy the print result in Auto image fix, you can select **Manual correction**. If you select **Manual correction**, you can specify each advanced setting item.



- **Date**

Activate/deactivate to print the shooting date on a photo.

- **File no.**

Activate/deactivate to print the file no. on a photo.

 **Note**

Under conditions listed below, even if both **Date ON** and **File no. ON** are set, only the shooting date will be printed. If you want to print the file no., select **Date OFF**.

- **Layout print** or **Calendar print** is selected.
 - **Credit card** is selected in **Page size**.
-

- **Red eye correc.**

Corrects red eyes in portraits caused by flash photography.

- **Vivid photo**

Makes green and blue more lively.

- **Photo opt. pro**

Automatically optimizes brightness and tone of a photo.

- **Noise reduction**

Reduces the noise on blue areas like the sky as well as on black areas.

- **Face brightener**

Brightens a darkened face on the photo taken against the light.

- **Image optimizer**

Corrects and smooths the jagged contours for printing.

- **Brightness**

Adjust brightness.

- **Contrast**

Adjust contrast.

- **Color hue**

Adjust color hue.

For example, you can increase red or yellow to adjust the skin tone.

- **Effects**

Applies special effects to the photo, such as printing in sepia tones or with a sketch illustration like effect.

Using Other Useful Printing Function

You can enjoy various printouts of photos in the memory card.

1 Prepare for printing.

(1) Turn on the printer.

See "Turning On/Off the Printer" on page 6.

(2) Load paper.

See "Loading Printing Paper" on page 8.

(3) Insert the memory card into the Card Slot.

See "Inserting the Memory Card" on page 11.

2 Select **Create item** or **Special photo print** on the Home screen, then press the **OK** button.

Printing menus on the **Create item** screen:

- **Calendar print:** See "Creating a Calendar—Calendar print" on page 17.

- **Sticker print:** See "Printing Stickers with a Photo Saved on a Memory Card—Sticker print" on page 17.

- **Framed photo print:** See "Printing Photographs with a Frame—Framed photo print" on page 17.

Printing menus on the **Special photo print** screen:

- **ID photo size print:** See "Printing ID Photo—ID photo size print" on page 17.

- **Print all photos:** See "Printing all Photographs—Print all photos" on page 18.

- **Photo index print:** See "Printing a Photo Index—Photo index print" on page 18.

- **Captured info print:** See "Print Photograph Information—Captured info print" on page 18.

- **DPOF print:** See "Printing Photographs from Your Camera—DPOF print" on page 18.

 **Note**

Depending on your selected printing menu, you can do...

- You can change the advanced print setting. See "Advanced Print Settings Screen" on page 15.

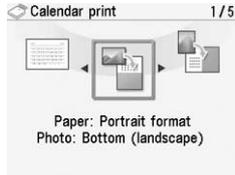
- You can change the display for photos. See "Changing the Display—Change display" on page 19.

- You can search for photos with the shooting date. See "Searching for Photos with the Shooting Date—Search" on page 20.

- You can print a specified area. See "Printing a Specified Area—Trimming" on page 19.

■ Creating a Calendar—Calendar print

You can create your own original calendar with your favorite photo printed on it.



- 1 Select **Calendar print** on the **Create item** screen.
- 2 Select the format, the photo to print, the background color, etc., then press the **Print** button.

● Important

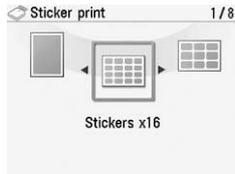
Always load paper in portrait orientation.

📖 Note

- Select the landscape format for a landscape-oriented photo or the portrait format for a portrait-oriented photo. If the photo is upside-down, you can use the ▲ or ▼ button to rotate the photo 180 degrees.
- To change the start of the week on the printed calendar, press the left Function button on the screen where **Advanced** is displayed.
- Even if both **Date ON** and **File no. ON** are set, only the shooting date will be printed. If you want to print the file no., select **Date OFF**. It is not possible to print both the shooting date and the file no.

■ Printing Stickers with a Photo Saved on a Memory Card—Sticker print

You can print your favorite photo with a frame on the Canon genuine Photo Stickers.



- 1 Select **Sticker print** on the **Create item** screen.
- 2 Select **Stickers x16** layout, the photo to print, the frame, and the number of copies, then press the **Print** button.

📖 Note

- Load a single sheet at a time.
- To print without a frame, press the left Function button in the frame selection screen.
- If the photo is upside-down, you can use the ▲ or ▼ button to rotate the frame 180 degrees.
- If you want to rotate a photo 90 degrees to match a frame, rotate the trimming area. See "Printing a Specified Area—Trimming" on page 19.
- When printing stickers, be sure to load the media so that it faces in the correct direction. See "Loading Printing Paper" on page 8.

■ Printing Photographs with a Frame—Framed photo print

You can print your favorite photo with a frame.

- 1 Select **Framed photo print** on the **Create item** screen.
- 2 Select the frame and the photo to print, then press the **Print** button.

📖 Note

- If the photo is upside-down, you can use the ▲ or ▼ button to rotate the frame 180 degrees.
- If you want to rotate a photo 90 degrees to match a frame, rotate the trimming area. See "Printing a Specified Area—Trimming" on page 19.

■ Printing ID Photo—ID photo size print

You can print ID size photos.

- 1 Select **ID photo size print** on the **Special photo print** screen.
- 2 Select the photo size and the photo to print, then press the **Print** button.

⚠ Caution

Print the photo on the larger-sized paper than your selected photo size.

📖 Note

Choose the area to print by using the following buttons.

- ▲, ▼, ◀, and ▶ buttons: Position the printing area.
- **Easy-Scroll Wheel**: Sets the printing area. Turn the **Easy-Scroll Wheel** clockwise to enlarge the size of the printing area or counterclockwise to reduce it.
- **Right Function button**: Rotate the printing area. To switch the printing area between portrait and landscape orientations, press this button.
- **OK** button: Finalizes your selection of printing area.

■ Printing all Photographs—Print all photos

You can print all photos saved on the memory card.

- 1 Select **Print all photo** on the **Special photo print** screen.
- 2 Specify the print range, then press the **Print** button.

■ Printing a Photo Index—Photo index print

You can print a list of all photos saved on the memory card.

- 1 Select **Photo index print** on the **Special photo print** screen.
- 2 Specify the print range, then press the **Print** button.

Note

When using index printing, the number of images printed on a single sheet of paper depends on the page size, as follows:

- 5"×7" / 127.0×177.8 mm: 35 photos
 - 4"×6" / 101.6×152.4 mm: 24 photos
 - Credit card: 6 photos
 - Wide / 101 x 180 mm: 28 photos
-

■ Print Photograph Information—Captured info print

You can print the Photograph information (Exif information) when you shot on the white space of photo.

- 1 Select **Captured info print** on the **Special photo print** screen.
- 2 Select the photo to print, then press the **Print** button.

■ Printing Photographs from Your Camera—DPOF print

If DPOF (Digital Print Order Format) settings are made on the camera, photos are printed automatically according to those settings.

- 1 Select **DPOF print** on the **Special photo print** screen.
- 2 Select **Yes**, then press the **Print** button.

Note

- The printer supports the following DPOF functions:

Version:

Based on ver. 1.00

Supported image types:

Cliff, Exif (JPEG/TIFF), and JFIF

Print Style Standard Print:

Prints photos that were specified as "Standard Print" with DPOF

Print Style Index Print:

Prints an index of photos that were specified as "Index Print" with DPOF using the printer's index printing layout

Print Photo Select:

Prints only photos specified with DPOF (cannot be specified from the Operation Panel)

Number of copies:

Prints the number of copies specified with DPOF (cannot be specified from the Operation Panel)

- Prints are automatically enlarged or reduced to match the page size. Edges of the photo may be clipped off depending on the page size.
 - The shot date order setting by which photos are sorted follows that of DPOF.
 - DPOF is a standard format to record the specified information regarding images, such as which image or number of copies to print.
-

Using Useful Display Function

There are other useful functions to print the photo from memory card.

- “Changing the Display—Change display” below
- “Display photos sequentially—Slide show” below
- “Printing a Specified Area—Trimming” on right column
- “Searching for Photos with the Shooting Date—Search” on page 20

■ Changing the Display—Change display

When you press the left Function button when **Change display** is displayed on the screen, you can change the way photos are displayed.

- Normal screen display:** Shows one photo.
- Thumbnail display:** Shows nine photos at a time. Select the photo using the **Easy-Scroll Wheel** or the ▲, ▼, ◀, or ▶ button, then press the [+] [-] buttons to specify the number of copies.
- Full-screen display:** Shows one photo at full-screen.
- Enlarged display:** Shows enlarged photo twice as much as the original. Move the area to show using the ▲, ▼, ◀, or ▶ button. Press the **OK** button to return to the previous display mode.
- Slide show:** Shows next photos automatically. To stop the slide show, press the **Stop/Reset** button.

■ Display photos sequentially—Slide show

You can display photos saved on the memory card on the LCD sequentially.

- 1 Select **Slide show**  on the **HOME** screen, then press the **OK** button.

Press the **Stop/Reset** button to stop the slide show.

Note

You can do...

You can specify the image quality of the slide show. See “Slide show setting” on page 34.

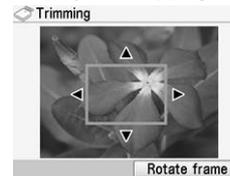
■ Printing a Specified Area—Trimming

You can edit images displayed on the LCD by cropping them.

Note

Crop images after specifying the page size, media type, and bordered or borderless printing in the print setting screen. If you change the paper settings after cropping, the cropped area may be adjusted to match the paper, or be disabled completely.

- 1 Select the photo to crop.
- 2 Display the cropping edit screen.



- (1) Press the right Function button when **Edit** is displayed on the screen.
- (2) Select **Trimming**, then press the **OK** button.
The cropping edit screen is displayed.

- 3 Choose the area to print.
 - ▲, ▼, ◀, and ▶ buttons: Position the cropping frame.
 - **Easy-Scroll Wheel**: Sets the cropping frame size.
Turn the **Easy-Scroll Wheel** clockwise to enlarge the size of the cropping frame or counterclockwise to reduce it.
 - **Right Function button**: Rotates the cropping frame.
To switch the cropping frame between portrait and landscape orientations, press this button.
- 4 Press the **OK** button to finalize your selection of cropping area.
The area to be cropped is specified, and the original photo is displayed.

Note

- The cropped image cannot be newly saved on the memory card.
- The cropping area is displayed only for photos which have been cropped.
- To change the cropped area once it has been set, press the right Function button again when **Edit** is displayed on the screen, select **Trimming**, then press the **OK** button.
- To cancel cropping after cropping has been set, press the right Function button again when **Edit** is displayed on the screen, select **Cancel trimming**, then press the **OK** button. Select **Displayed images only** or **All images**, then press the **OK** button.

■ Searching for Photos with the Shooting Date—Search

You can choose to display and print only photos shot on the specified date or within the specified range of dates.

Note

If the number of copies to print is already specified for some photos before searching with the shooting date, or if some photos are already pasted on a layout, those photos will still be selected for printing even if they were not shot on the specified date or within the specified date range.

1 Display the search method screen.

● Setting in **Edit**

(1) Press the right Function button when **Edit** is displayed on the screen.

(2) Select **Search**, then press the **OK** button.

The **Search** screen is displayed.

● Setting in **Search** in the **Specify print range** screen (**Layout print**, **Photo index print**, and **Print all photos**)

(1) Select **Search**, then press the **OK** button.

The **Search** screen is displayed.

2 Set the search method.

(1) Select the search method.

To specify only one date for search, select **One day only**.

To specify the range for search, select **Select date range**.

(2) Press the **OK** button.

The date input screen is displayed.

Note

It may take a while for the date input screen to be displayed depending on the number of photos saved on the memory card.

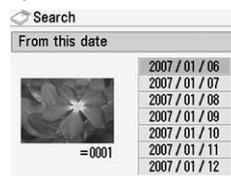
3 Specify the date range.

● If you selected **One date only**



(1) Specify the date to search for.

● If you selected **Select date range**



(1) Specify the start date to search, then press the **OK** button.

(2) Specify the end date to search.

4 Press the **OK** button to start searching.

The printer starts searching and the photos within the specified date range are displayed.

Note

- The date that you specified is displayed according to the settings of **Date display** in **Other settings**. See "Date display" on page 34.
- To cancel the selected date range, press the right Function button when **Edit** is displayed on the screen, select **Cancel selected date**, then press the **OK** button.

Printing Photographs Directly from a Compliant Device

You can connect a PictBridge compliant device such as a digital camera, camcorder, or mobile phone using a USB cable recommended by the device's manufacturer, and print recorded images directly without using a computer.

■ Connectable Devices

PictBridge is an industry standard enabling a range of digital photo solutions, including the direct printing of photos from a digital still camera, camcorder or mobile phone* without the need to use a computer. A device can be connected to this printer for direct printing regardless of the manufacturer or the model as long as it complies with the PictBridge standard.

* PictBridge compliant digital still cameras, digital camcorders, and camera-equipped mobile phones are hereafter collectively referred to as "PictBridge compliant device".

 A device with this mark is PictBridge compliant.

■ Printable Image Data Format

This printer prints images taken with a DCF (Design rule for Camera File system) ver. 1.0/2.0-compatible digital camera (Exif ver. 2.2/2.21 compliant), as well as PNG files.

Printing Photographs Directly from a Compliant Device

To connect a PictBridge compliant device to this printer, use a USB cable recommended by the device's manufacturer.

Caution

Do not connect any equipment other than PictBridge compliant devices or the optional Bluetooth unit BU-20 to the Direct Print Port of the printer. If you do so, electric shock, fire, or damage to the printer could result.

Important

- Set up the printer according to your setup sheet before you start printing.
- Never disconnect the USB cable during printing unless when explicitly allowed to by the PictBridge compliant device. When disconnecting the USB cable between the PictBridge compliant device and printer, follow the instructions given in the device's instruction manual.

Note

When printing photos with the PictBridge compliant device connected to the printer, we recommend the use of the AC adapter supplied with the device. If you are using the device battery, be sure to charge it fully.

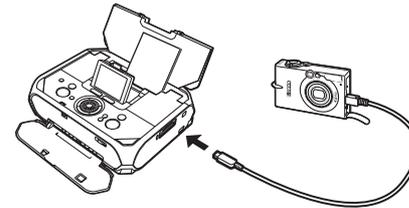
- 1 Prepare for printing
 - (1) Turn on the printer.
See "Turning On/Off the Printer" on page 6.
 - (2) Load paper.
See "Loading Printing Paper" on page 8.
- 2 Connect the PictBridge compliant device to the printer.

Note

Depending on the model or brand of your device, you may have to select a print mode compliant with PictBridge before connecting the device. You may also have to turn on the device or select Play mode manually after connecting the device to the printer.

Perform necessary operations on the PictBridge compliant device before connecting it to this printer according to instructions given in the device's instruction manual.

- (1) Make sure that the PictBridge compliant device is turned off.
- (2) Connect the PictBridge compliant device to the printer using a USB cable recommended by the manufacturer of the device.
The device turns on automatically.
If your device does not turn on automatically, turn it on manually.



- (3) Set up the PictBridge compliant device for direct printing.
 will appear on the LCD of the device when the printer is correctly connected.

3 Specify the print settings such as paper type and layout.

See "About PictBridge Print Settings" below.

You can make settings using the menu on the LCD of your PictBridge compliant device. Select the size and type of paper that you loaded in the printer.

If your PictBridge compliant device does not have setting menu, change the setting from the printer. For details, see "Settings on the Printer" on page 23.

4 Start printing from your PictBridge compliant device.

About PictBridge Print Settings

■ Settings on a PictBridge Compliant Device

This section describes the print settings on a PictBridge compliant device. When operating the device, be sure to follow the instructions given in the instruction manual of your PictBridge compliant device.

Note

- In the following description, names of setting items are given according to those used in Canon-brand PictBridge compliant devices. Setting item names may be different depending on the brand or model of your device.
- Some setting items explained below may not be available on some devices. In this case, the settings made on the printer are applied. Also, when some items are set to **Default** on a PictBridge compliant device, the printer settings for these items are applied. For details, see "Settings on the Printer" on page 23.

● Paper Size and Paper Type Settings

The following sizes and types of printing paper can be used when printing from a PictBridge compliant device.

● Paper size

4" x 6" / 101.6 x 152.4 mm, 5" x 7" / 127.0 x 177.8 mm^{*1}, Credit card, Wide^{*1}

● Paper type

Paper type setting	Loadable paper ^{*2}
Photo	Photo Paper Plus Glossy
	Glossy Photo Paper
	Glossy Photo Paper "Everyday Use"
	Photo Paper Glossy
	Photo Paper Plus Semi-gloss
	Photo Stickers ^{*3}
Fast Photo	Photo Paper Pro

The available page sizes vary depending on the media type. For details, visit our website.

^{*1} Can be selected only on certain Canon-brand PictBridge compliant devices.

^{*2} You may not be able to purchase some Canon genuine papers depending on the country or region of purchase.

^{*3} Exclusively used to print photo stickers. When printing on sticker paper, see "Layout Setting" below.

● Layout Setting

Various layout options are available.

- Bordered/Borderless: You can select whether or not to print an image with a border.
- When printing onto Photo Stickers (PS-101) (16-up), use the following settings.

(1) Select **10x15cm/4"x6"** for the **Paper size**, and **Photo** for the **Paper type**.

(2) Select **N-up** for the **Layout**, then select **16**.

Even though some PictBridge compliant devices display the Layout option; **2-up**, **4-up**, **9-up**, and **16-up**, always select **16-up**. If there are no options on the PictBridge compliant device that correspond to 16-up, printing on Photo Stickers (PS-101) is not possible.

- Shooting Info (Exif Data): You can print shooting info (Exif Data) in the margin of selected individual images.

● Date/File No. Print Setting

You can specify whether the date and/or file number will be printed.

Note

- If the images already have dates superimposed when shot, set this PictBridge setting item to **Off**. If you select **Date**, **File No.**, or **Both**, the date and/or file number will be printed over the date printed by the device's function.
 - Depending on the paper size and layout, the date will only be printed even when **Both** is selected.
-

● Image Optimize Setting

You can select the optimization method to obtain high print quality. When you select **Default**, the most suitable correction for each photo is made using the Auto image fix function of the printer. See "Setting on the Printer" on right column.

When you select **On**, photos are optimized for printing using the Photo opt. pro function.

If you are using a Canon-brand PictBridge compliant device, the following additional options may be available, depending on the model.

- **VIVID** makes green and blue more lively.
- **NR** (Noise Reduction) reduces the noise on blue areas like the sky as well as on black areas.
- **Face** brightens a darkened face on the photo taken against the light.
- **Red-Eye** corrects red eyes in portraits caused by flash photography.

● Trimming Setting

You can select an area to print.

■ Settings on the Printer

This section describes how to change the print settings on the printer.

Set the print settings to **Default** on the PictBridge compliant device when you want to print according to the settings on the printer.

● Displaying the PictBridge Settings Screen and Specifying the Settings:

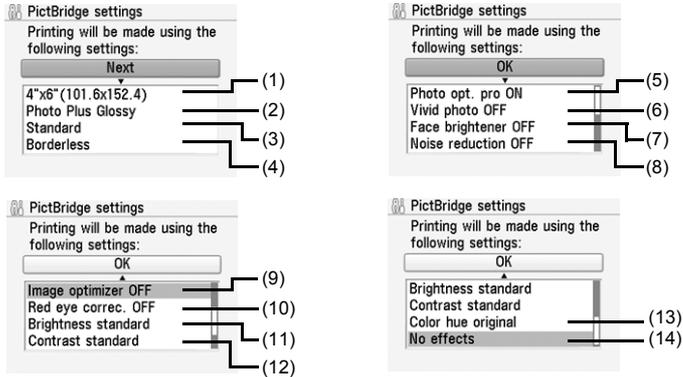
- 1** Turn on the printer.
See "Turning On the Printer" on page 6.
- 2** Display the **PictBridge settings** screen.
 - (1) Select **Settings**  on the **HOME** screen, then press the **OK** button.
 - (2) Select **Device settings**, then press the **OK** button.
 - (3) Select **PictBridge settings**, then press the **OK** button.

- 3** Confirm and change the settings.
 - (1) Select the item to set, then press the **OK** button.
 - (2) Select the item, then press the **OK** button.
 - (3) Confirm the print settings, select **Next**, then press the **OK** button.
 - (4) Select **Auto image fix ON** or **Manual correction**, then press the **OK** button.

When **Auto image fix ON** is selected, the scene or person's face of a shot photo is recognized and the most suitable correction for each photo is made automatically. It makes a darkened face by backlight brighter to print. It also analyzes a scene such as scenery, night scene, person, etc. and corrects each scene with the most suitable color, brightness, or contrasts automatically to print.

When **Manual correction** is selected, you can make each effect setting described in "Setting Items" on page 24. Repeat steps (1) and (2) and then specify each item. After finishing all settings you need, select **OK** and then press the **OK** button. You can print from the PictBridge compliant device with specified settings.

● Setting Items



Setting Item	Description	Corresponding Setting of PictBridge Compliant Devices*
(1) Page size	Select the page size, when printing directly from a PictBridge compliant device.	Paper size
(2) Media type	Select the media type, when printing directly from a PictBridge compliant device.	Paper type
(3) Print quality	Select the print quality, when printing directly from a PictBridge compliant device.	–
(4) Borderless print	Select bordered or borderless print.	Layout

Setting Item	Description	Corresponding Setting of PictBridge Compliant Devices*
(5) Photo opt. pro	Automatically optimizes brightness and tone of a photo.	Image optimize
(6) Vivid photo	Makes green and blue more lively.	
(7) Face brightener	Brightens a darkened face on the photo taken against the light.	
(8) Noise reduction	Reduces the noise on blue areas like the sky as well as on black areas.	
(9) Image optimizer	Corrects and smooths the jagged contours for printing.	
(10) Red eye correc.	Corrects red eyes in portraits caused by flash photography.	
(11) Brightness	Adjust brightness.	
(12) Contrast	Adjust contrast.	
(13) Color hue	Adjust color hue. For example, you can increase red or yellow to adjust the skin tone.	
(14) Effects	Applies special effects to the photo, such as printing in sepia tones or with a sketch illustration like effect.	

* Set the items in this column to **Default** on the PictBridge compliant device when you want to make settings on the printer.

Printing Photographs from a Wireless Communication Device

If you have a mobile phone or a PDA with an infrared port for wireless data transmission, you can print photos through wireless connection with the printer. If the optional Bluetooth unit BU-20 is connected to the printer, you can also print photos through Bluetooth communication.

Important

To perform printing correctly from a mobile phone or PDA through Infrared communication, the following conditions should be satisfied.

- Compatible devices: A mobile phone or PDA with an IrDA port that supports image data transmission through Infrared communication.
- Printable data: Images shot with a camera of the mobile phone or PDA.

When printing photos through Infrared Communication:

- See “Setting the Page Size, Media Type, and Layout When Printing from a Mobile Phone or a PDA” below.
- See “Printing via Infrared Communication” on page 26.

When printing photos through Bluetooth Communication:

Refer to the *User's Guide* on-screen manual.

Setting the Page Size, Media Type, and Layout When Printing from a Mobile Phone or a PDA

When printing from a mobile phone or PDA through Infrared communication or Bluetooth communication, you can select the page size, media type, layout and borderless printing on the **Wireless print settings** screen.

The default is borderless printing on 4" x 6" Photo Paper Plus Glossy.

■ Displaying the Wireless Print Settings Screen and Specifying the Settings

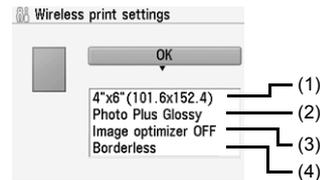
- 1 Turn on the printer.
See “Turning On/Off the Printer” on page 6.
- 2 Display the **Wireless print settings** screen.
 - (1) Select **Settings**  on the **HOME** screen, then press the **OK** button.
 - (2) Select **Device settings**, then press the **OK** button.

- (3) Select **Wireless print settings**, then press the **OK** button.
The **Wireless print settings** screen is displayed.

3 Confirm or change the settings.

- (1) Select the item to set, then press the **OK** button.
- (2) Change the setting, then press the **OK** button.
- (3) After finishing all settings you need, select **OK** and then press the **OK** button.
The photo in the mobile phone or PDA can be printed according to the following settings.

■ Setting Items



- (1) Select the page size for printing photos saved on a mobile phone or PDA.
- (2) Select the media type for printing photos saved on a mobile phone or PDA.
- (3) Select **Image optimizer ON** to correct and smooth out the jagged contours when printing.
- (4) Select the layout of the photos as below.
Sticker print:
Stickers x 16
Printing on paper other than sticker:
Bordered x 1, x 2, x 4, x 8
Borderless x 1, x 2, x 4, x 8

Printing via Infrared Communication

You can print photos stored in your mobile phone or PDA via infrared communication.

When printing through infrared communication, also refer to the instruction manual of your mobile phone or PDA.

1 Prepare for printing.

- (1) Turn on the printer.
See "Turning On/Off the Printer" on page 6.
- (2) Load paper.
See "Loading Printing Paper" on page 8.

2 Set the print setting and layout.

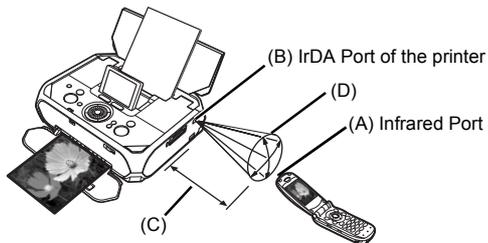
See "Setting the Page Size, Media Type, and Layout When Printing from a Mobile Phone or a PDA" on page 25.

3 Start Infrared Communication.

- (1) Place the mobile phone or PDA so that its infrared port (A) comes face to face to that of the printer (B) at a distance of less than approximately 8 inches / 20 cm (C).

Note

- The effective angle of the IrDA Port of the printer is about 10 degrees from the central axis (D) in both vertical and horizontal directions.
- The effective range of communication with the printer depends on the mobile phone or PDA you are using. For details, refer the manual of your mobile phone or PDA.



- (2) Select the photo to print and send the data to the printer using the infrared communication function of the mobile phone or PDA.
Printing will start after receiving all data.

Note

- Do not place any obstacle between the infrared ports of the printer and mobile phone or PDA it will block data transmission.
- During printing, be careful not to interrupt infrared communication with the printer. If it is interrupted, send the data from the mobile phone or PDA again.
- Depending on your device, the print quality may be degraded due to the restriction on the infrared transfer capacity.
- We recommend printing on sticker or credit card-sized paper when the print quality on other types of paper is not fine.

About transmittable data

- Due to security settings on the mobile phone or PDA, downloaded content or photos downloaded from an URL attached to an E-mail cannot be printed.
 - Video files cannot be printed.
 - Depending on the size of a photo, it may take a while for this printer to start to print after starting the infrared communication.
 - Depending on your device, data saved on a memory card may not be printed.
 - Printed quality and orientation (portrait or landscape) are determined automatically according to the shot photo size.
 - Depending on the photo size shot on the mobile phone, the edges of the image may be cut off when performing borderless printing; the margin size may change when printing with borders.
 - If the photo file is over 1.8 MB in size, it may not be possible to send the file.
-

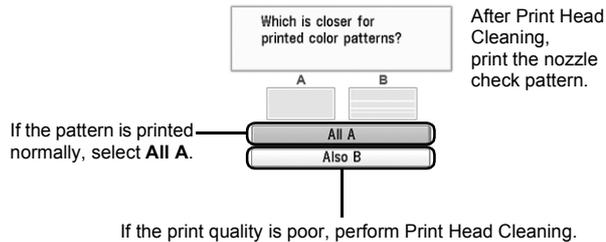
Routine Maintenance

When Printing Becomes Faint or Colors Are Incorrect

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

Step 1

“Printing the Nozzle Check Pattern” on right column



Step 2

“Print Head Cleaning” on page 28

If the problem remains after performing Print Head Cleaning twice.

Step 3

“Print Head Deep Cleaning” on page 29

If Print Head Deep Cleaning does not resolve the problem, the Print Head may be damaged. Contact your Canon Service representative.

Note

Before performing maintenance

- Open the Printer Cover and make sure that the ink lamp is lit red.
 - If the ink lamp is flashing slowly, the ink tank is running low. If the printing is blurred, replace the ink tank. See “Replacing an Ink Tank” on page 30.
 - If the printing is not blurred, you can continue printing for a while, but the printer may not be able to print properly along the way. We recommend you to have a replacement ink tank available.
 - If the ink lamp is flashing fast, the ink tank is empty. Replace the ink tank. See “Replacing an Ink Tank” on page 30.
 - If the ink lamp is not lit, the tank is not set properly. Press the  mark on the ink tank until the tank clicks into place.
- If the print result is not your expected one, for instance, the printed photo is rough, performing the Print Head Alignment may resolve the problem. See “Aligning the Print Head” on page 29.

■ Printing the Nozzle Check Pattern

Print the nozzle check pattern to determine whether the ink ejects properly from the Print Head Nozzles.

1

Prepare for printing.

(1) Turn on the printer.

See “Turning On/Off the Printer” on page 6.

(2) Load one sheet of Canon genuine 4" x 6" / 101.6 x 152.4 mm paper or Canon genuine 5" x 7" / 127.0 x 177.8 mm paper in the Rear Tray. See “Loading Printing Paper” on page 8.

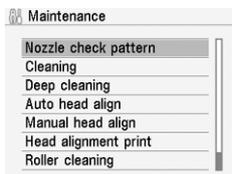
(3) Make sure that the Paper Thickness Lever is set to the right.

2

Print the Nozzle Check Pattern.

(1) Select **Settings**  on the **Home** screen, then press the **OK** button.

(2) Select **Maintenance**, then press the **OK** button.



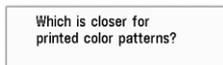
(3) Select **Nozzle check pattern**, then press the **OK** button.

The confirmation screen of **Nozzle check pattern** is displayed.

(4) Select **Yes**, then press the **OK** button.

The nozzle check pattern is printed and the confirmation screen of patterns is displayed.

3 Examining the nozzle check pattern.

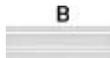


● **When all print check patterns are successfully printed:**
Select **All A**, then press the **OK** button.



When no white stripes appear

● **When there is more than one white stripe on the print check patterns:**
Select **Also B**, then press the **OK** button



When white stripes appear

The confirmation screen of **Cleaning** is displayed.

Select **Yes** to start the cleaning.

See "Print Head Cleaning" on right column.

■ Print Head Cleaning

Clean the Print Head if white streaks appear in the printed nozzle check pattern. Cleaning unclogs the nozzles and restores the print head condition. Note that cleaning the Print Head causes used ink to be absorbed in the ink absorber. Cleaning the Print Head consumes ink, so perform Print Head Cleaning only when necessary.

1 Prepare for printing.

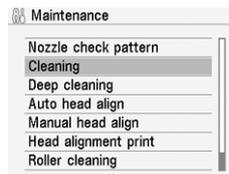
Turn on the printer.

See "Turning On/Off the Printer" on page 6.

2 Start Print Head Cleaning.

(1) Select **Settings**  on the **Home** screen, then press the **OK** button.

(2) Select **Maintenance**, then press the **OK** button.



(3) Select **Cleaning**, then press the **OK** button.

(4) Select **Yes**, then press the **OK** button.

Print Head Cleaning starts.

Important

Do not perform any other operations until the Print Head Cleaning finishes. This takes about 1 minute.

3 Print the nozzle check pattern to verify that the Print Head Nozzles are clean.

When Print Head Cleaning finishes, the confirmation message is displayed. Select **Yes** to print the Nozzle Check Pattern, and verify the Print Head Nozzles.

See "Printing the Nozzle Check Pattern" on page 27.

Note

If the problem remains after performing Print Head Cleaning twice, try Print Head Deep Cleaning.

■ 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. Note that cleaning the Print Head causes used ink to be absorbed in the ink absorber. Print Head Deep Cleaning consumes more ink than standard Print Head Cleaning, so perform this procedure only when necessary.

1 Prepare for printing.

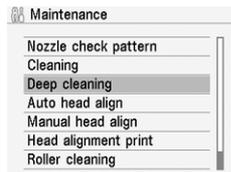
Turn on the printer.

See “Turning On/Off the Printer” on page 6.

2 Start Print Head Deep Cleaning.

(1) Select **Settings**  on the **Home** screen, then press the **OK** button.

(2) Select **Maintenance**, then press the **OK** button.



(3) Select **Deep cleaning**, then press the **OK** button.

(4) Select **Yes**, then press the **OK** button.

Print Head Deep Cleaning starts.

Important

Do not perform any other operations until the Print Head Deep Cleaning finishes. This takes about 90 seconds.

3 Print the nozzle check pattern to verify that the Print Head Nozzles are clean.

When Print Head Deep Cleaning finishes, the confirmation message is displayed. Select **Yes** to print the Nozzle Check Pattern, and verify the Print Head Nozzles.

See “Printing the Nozzle Check Pattern” on page 27.

Note

If the print head nozzles are still not clean, turn off the printer and perform another Print Head Deep Cleaning after 24 hours.

If this does not resolve the problem, the Print Head may be damaged. Contact your Canon service representative.

■ Aligning the Print Head

If print quality is poor, adjust the Print Head position. It may solve the problem.

1 Prepare for printing.

(1) Turn on the printer.

See “Turning On/Off the Printer” on page 6.

(2) Load one sheet of the supplied 5" x 7" / 127.0 x 177.8 mm paper or same-sized Canon genuine paper in the Rear Tray.

Important

Be sure to use the following paper.

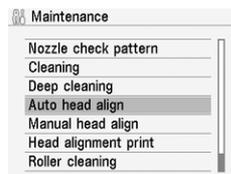
Photo Paper Plus Glossy (PP-101) 5" x 7" / 127.0 x 177.8 mm

(3) Make sure that the Paper Thickness Lever is set to the right.

2 Adjust the print head position.

(1) Select **Settings**  on the **Home** screen, then press the **OK** button.

(2) Select **Maintenance**, then press the **OK** button.



(3) Select **Auto head align**, then press the **OK** button.

Note

If you select **Head alignment print**, the printer exits the process after printing the current adjustment values.

(4) Select **Yes**, then press the **OK** button.

The pattern is printed and the Print Head is aligned automatically. This takes about 3 minutes.

Note

- The print head alignment pattern is printed in black and blue.
- If adjustment was not done successfully, the “Auto head align has failed. Press the **OK** button and repeat operation. <See manual>.” error message is displayed on the LCD. For details, see “Error Message Is Displayed on the LCD” on page 35.

Replacing an Ink Tank

This section explains the way to confirm the ink status and the procedure to replace an ink tank.

When ink runs out or other errors occur, an error message is displayed on the LCD to inform you of the error. See “Error Message Is Displayed on the LCD” on page 35 and confirm how to handle it.

Note

- For information on the compatible ink tank, refer to the back cover of this manual.
- If printing becomes faint or white streaks appear despite sufficient ink levels, see “When Printing Becomes Faint or Colors Are Incorrect” on page 27.

Getting the Ink Status Information

You can confirm the status of the ink tank in the following ways:

- “With the LCD of this Printer” below.
- “With the Ink Lamp” on right column.

When printing from your computer, error messages appear on your computer screen as well.

With the LCD of this Printer

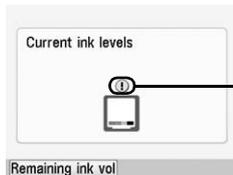
You can confirm the status of the ink tank in the remaining ink volume screen on the LCD.

- 1 Make sure that the printer is turned on, then press the **HOME** button.

The **HOME** screen is displayed.

- 2 Press the left Function button.

The screen as shown below will be displayed.



Confirm whether any symbols are displayed here.



Ink is low. You can continue printing for a while, but we recommend you to have a new ink tank available.



Ink may have run out. See “The following ink may have run out. Replacing the ink tank is recommended. U041” on page 35 and take the appropriate action.

Note

The ink status information is also displayed in the screen that appears during printing.

An error message may appear on the LCD during printing.



Ink has run out. See “The following ink has run out. Replace the ink tank. U170” on page 36 and take the appropriate action.

With the Ink Lamp

You can confirm the status of the ink tank by the ink lamp. Open the Printer Cover of the printer to confirm how the ink lamp lights or flashes.

Ink lamp is on

The ink tank is correctly set and there is enough ink remaining to print.

Ink lamp is flashing

Flashing slowly (at around 3-second intervals)

Repeats

Ink is low. You can continue printing for a while, but we recommend you to have a new ink tank available.

Flashing quickly (at around 1-second intervals)

Repeats

The ink tank is empty. Replace it with a new one.

Ink lamp is off

The tank is not set properly. Press the  mark on the ink tank until the tank clicks into place.

If the lamp is still off after reinserting the ink tank, there has been an error and the printer cannot print.

■ Replacing an Ink Tank

● Important

Handling Ink

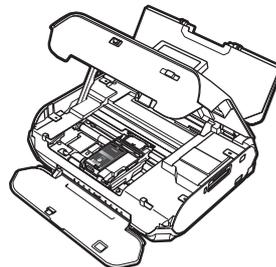
- To maintain optimal printing quality, we recommend the use of specified Canon genuine ink tank.
Refilling ink is not recommended.
- Once you remove an ink tank, replace it immediately. Do not leave the printer with an ink tank removed.
- Replace an empty tank with a new one. Inserting a partially used ink tank may cause the nozzles to clog. Furthermore, with such a tank, the printer will not be able to inform you when to replace the tank properly.
- Once an ink tank has been installed, 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 operate properly when it is reinstalled. To maintain optimal printing quality, use an ink tank within six months of first use.
- Color ink is consumed in Print Head Cleaning and Print Head Deep Cleaning, which may be necessary to maintain the printer's performance. When an ink tank is out of ink, replace it immediately with a new one.

1 Make sure that the printer is turned on.

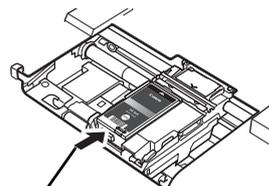
2 Open the Printer Cover.



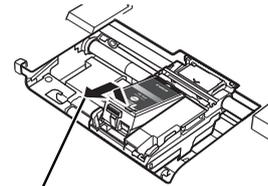
- (1) Slide the Lock Switch toward the right to open the Printer Cover.
The Print Head Holder moves to the center.



3 Remove the empty ink tank.



- (1) Push the tab.



- (2) Remove the ink tank.

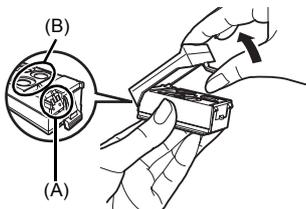
● Important

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

● Important

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

4 Prepare a replacement ink tank.

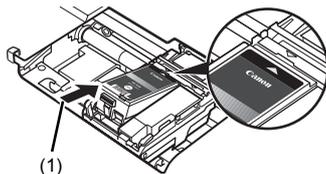


- (1) Unpack a new ink tank and remove the orange protective cap. Discard the cap once it is removed.

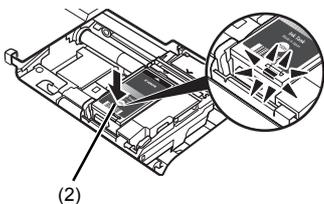
Important

- Do not touch the electrical contacts (A) on the ink tank. Doing so can cause the printer to malfunction or become unable to print.
- Do not re-attach the protective cap once you have removed it. Discard it according to the local laws and regulations regarding disposal of consumables.
- Do not touch the open ink ports (B) once the protective cap is removed, as this may prevent the ink from being ejected properly.

5 Insert the ink tank.



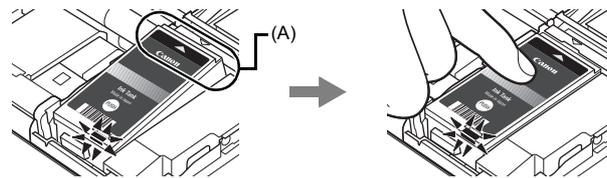
- (1) Insert the new ink tank slightly slanted to meet the \triangle on the ink tank to ∇ on the printer.



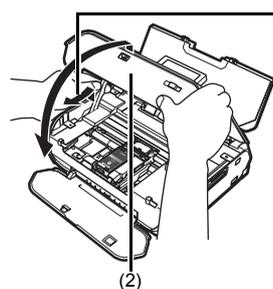
- (2) Push down on the **PUSH** mark on the ink tank until it clicks into place. Ensure that the ink lamp is lit red.

Important

If the front (innermost) part of the ink tank (A) is sticking up, push down on the Canon logo on the ink tank as illustrated below. Do not remove the ink tank forcibly.



6 Close the Printer Cover.



- (1) Lift the Printer Cover and pull the Lock Bar close.
- (2) Close the Printer Cover firmly until it clicks into place.

Note

When you start printing after replacing the ink tank, Print Head Cleaning is performed automatically. Do not perform any other operations until Print Head Cleaning finishes.

Changing the Printer Settings

This section describes the procedure to change the settings in the **Device settings** screen, taking the steps to specify **Date display** as an example.

- 1 Make sure that the printer is turned on, then press the **HOME** button.

The **HOME** screen is displayed.

- 2 Display the **Device settings** screen.

(1) Select **Settings**  on the **Home** screen, then press the **OK** button.

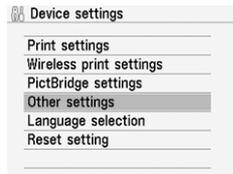
(2) Select **Device settings**, then press the **OK** button.

The **Device settings** screen is displayed.

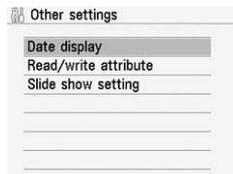
- 3 Select the menu.

(1) Select the setting item, then press the **OK** button.

The setting screen for the selected item is displayed.

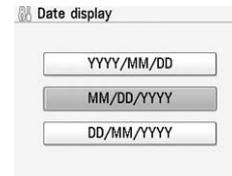


- (2) Select the menu, then press the **OK** button.



- 4 Change the settings.

(1) Select the setting item, then press the **OK** button.



Print settings

■ Ink drying wait time

Use this setting only if the print surface becomes smudged.

Important

Be sure to set this back to **Standard** after printing since it takes longer than usual for one printing.

Wireless print settings

For details, see “Setting the Page Size, Media Type, and Layout When Printing from a Mobile Phone or a PDA” on page 25.

Bluetooth settings

For details, refer to the *User's Guide* on-screen manual.

PictBridge settings

For details, see “Settings on the Printer” on page 23.

Other settings

■ Date display

Changes the display format of shooting dates when printed.

Note

- When **Date ON** is selected on the advanced print settings screen, the shooting date is printed in the date display format you selected. For print setting, see “Advanced Print Settings Screen” on page 15.
- The shooting date format is as specified in the DPOF setting from DPOF printing.

■ Read/write attribute

Selects whether to allow data to be written onto memory cards from a computer.

Important

- Remove the memory card before changing this setting. For details, refer to the *User's Guide* on-screen manual.
- When you write the data on the memory card, connect the printer with the AC adapter. The printer cannot be set to the **Read/write mode** with using the optional battery. The printer can be set to the **Read/write mode** when using both the AC adapter and optional battery, but do not remove the AC adapter when you write the data on the memory card.
- If you set this setting to **Read/write mode**, card direct printing cannot be done. After you finish operation of the memory card dedicated drive, be sure to set it back to **Read-only mode**. And also, when you turn off the printer, the **Read/write mode** will be canceled and the setting is returned to the **Read-only mode** when you turn on the printer next time.

■ Slide show setting

Selects **Image quality: Standard** or **Image quality: High** for the image display quality of the slide show.

Note

When **Image quality: High** is selected, it may take time until images are displayed.

Language selection

Changes the language for LCD messages and menus.

Reset setting

You can change the settings back to the default, except for the LCD language and the position of the Print Head.

Troubleshooting

This section describes troubleshooting tips for problems you may encounter when using the printer.

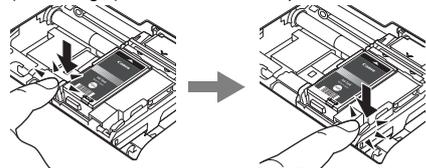
Note

This section mainly describes the methods of printer operation for troubleshooting. To handle problems using your computer, refer to "Troubleshooting" in the *User's Guide* on-screen manual. For details on how to view the on-screen manuals, "Reading the On-screen Manuals" on page 47.

- "Error Message Is Displayed on the LCD" on page 35
- "LCD Cannot Be Seen At All" on page 38
- "An Unintended Language Is Displayed on the LCD" on page 38
- "Cannot Install the Printer Driver" on page 39
- "Cannot Connect to Computer Properly" on page 40
- "Print Results Not Satisfactory" on page 40
- "Printer Does Not Start" on page 43
- "Paper Does Not Feed Properly" on page 43
- "Paper Jam" on page 43
- "The Power Lamp (blue) and Alarm Lamp (orange) Flash Alternately" on page 44
- "Error Message Appears on a PictBridge Compliant Device" on page 44
- "Cannot Remove a Memory Card" on page 46
- "Cannot Print Properly through Wireless Communication" on page 46

Error Message Is Displayed on the LCD

Cause	Action
The following ink may have run out. Replacing the ink tank is recommended. U041	If the lamp on the ink tank is flashing, ink may have run out. Replacing the ink tank is recommended. If printing is in progress and you want to continue printing, press the OK button with the ink tank installed. Then printing can continue. Replacing the ink tank is recommended after the printing. The printer may be damaged if printing is continued under the ink out condition. See "Replacing an Ink Tank" on page 30.

Cause	Action
The print head lock lever is not properly applied. Open the cover and press the lock buttons on both ends of the lever.	<ul style="list-style-type: none"> • The lock lever of the Print Head is not set properly (there are two tabs of the lock lever). Push both tabs (left and right) until each clicks into place.  <ul style="list-style-type: none"> • The ink tank is not set properly. Push the ink tank until it clicks into place.
The following ink tank cannot be recognized. U043	The ink tank is not set properly. Push the ink tank until it clicks into place and ensure that the ink lamp is lit red.
Print head is not installed. Install the print head. U051 The type of print head is incorrect. Install the correct print head. U052	Remove the Print Head and then reinstall it. If the error is not resolved, the Print Head may be damaged. Contact your Canon Service representative.
The following ink tank cannot be recognized. U140 U150	<ul style="list-style-type: none"> • The ink tank is not compatible with this printer. (The lamp on the ink tank is off.) Install an appropriate ink tank. See "Replacing an Ink Tank" on page 30. • An Ink tank error has occurred. (The lamp on the ink tank is off.) Replace the ink tank. See "Replacing an Ink Tank" on page 30.

Cause	Action
<p>The following ink has run out. Replace the ink tank. U170</p>	<p>Ink has run out. (The lamp on the ink tank flashes.) Replace the ink tank and close the Printer Cover. Printing under the current condition may damage the printer. If you want to continue printing in this condition, you need to release the function for detecting the remaining ink level. Press and hold the Stop/Reset button for at least 5 seconds, and then release it. * With this operation, releasing the function for detecting the remaining ink level is memorized. Please be advised that Canon shall not be liable for any malfunction or trouble which may be caused by continuation of printing under the ink out condition. See "Replacing an Ink Tank" on page 30.</p> <p> Note If the function for detecting the remaining ink level is disabled, the ink tank in gray is displayed in the remaining ink volume screen on the LCD. See "Getting the Ink Status Information" on page 30.</p>
<p>Printer detected ink out condition of the following ink. Replace the ink tank. U180</p>	<p>Printer detected ink out condition. (The lamp on the ink tank flashes.) Replace the ink tank and close the Printer Cover. Printing with an ink tank that was once empty may damage the printer. If you want to continue printing in this condition, you need to release the function for detecting the remaining ink level. Press and hold the Stop/Reset button for at least 5 seconds, and then release it. * With this operation, releasing the function for detecting the remaining ink level is memorized. Please be advised that Canon shall not be liable for any malfunction or trouble caused by continuation of printing under the ink out condition or refilled ink tank. See "Replacing an Ink Tank" on page 30.</p> <p> Note If the function for detecting the remaining ink level is disabled, the ink tank in gray is displayed in the remaining ink volume screen on the LCD. See "Getting the Ink Status Information" on page 30.</p>

Cause	Action
<p>There are no photos in memory card.</p>	<ul style="list-style-type: none"> ● There are no image data saved on the memory card that can be read by this printer. ● The printer may not recognize the file if the file name or the folder path contains certain characters. Use only alphanumeric characters. ● Photo data edited or processed on a computer must be printed from the computer.
<p>The ink absorber is almost full. Press [OK] to continue printing. Contact the service center.</p>	<p>The printer has a built-in ink absorber to hold the ink used during Print Head Cleaning, for example. This error message indicates that the ink absorber is nearly full. Press the OK button to cancel the error so you can continue printing. However, because printing is disabled once the ink absorber becomes completely full and until the ink absorber is replaced, you are recommended to contact your Canon service representative as early as possible (You will need to replace a particular part of the printer).</p>
<p>The device may be incompatible. Remove the device and check the manual supplied with the connected device.</p>	<ul style="list-style-type: none"> ● A communication time out occurs if an operation takes too long or if it takes too much time to send data. This may cancel printing. In such cases, disconnect and reconnect the USB cable. When printing from a PictBridge compliant device, depending on the model or brand of your device, you may have to select a PictBridge compliant print mode on the device before connecting it to the printer. You may also have to turn on your device or select Play mode manually after connecting the device to the printer. Perform necessary operations before connecting your device referring to its instruction manual. If the error is still not resolved, check if you can print another photograph. ● Check your device connected to the printer. Only PictBridge compliant devices or the optional Bluetooth Unit BU-20 can be connected to the printer for direct printing.

Cause	Action
Printer error has occurred. Turn off power then back on again. If problem persists, see the manual.	<p>Follow the procedure below to resolve the problem.</p> <p>(1) Turn off the printer, and unplug the power cord of the printer from the power supply. If you are attaching the optional battery, remove it once.</p> <p>(2) After a while, plug the power cord of the printer back in, and then turn on the printer.</p> <p>If the same error occurs, make sure that the ink tank is set properly.</p> <p>⚠ Caution If you cannot confirm that the ink tank is set properly since the Print Head Holder moves to the right, contact your Canon service representative.</p> <p>If the ink tank is not set properly, do not remove it forcibly. See Step 5 of "Replacing an Ink Tank" on page 30 and set the ink tank properly. After that, perform the steps (1) and (2) above once again.</p>
No battery. Turn printer off and use the AC adapter or install a charged battery.	<p>The optional battery is running low.</p> <p>(1) Turn off the printer.</p> <p>(2) Connect the supplied AC adapter or attach the charged battery, then turn on the printer.</p> <p>For details on how to charge the battery, refer to the manual supplied with the battery.</p>
The card is currently write-enabled. Set to read-only mode before performing operation.	<p>The Card Slot is set to Read/write mode. You cannot print in this mode. After writing on the memory card, set to Read-only mode again.</p>
An unsupported USB hub is connected. Remove the hub.	<p>If a PictBridge compliant device is connected via a USB hub, remove the hub and connect it directly to the printer.</p>

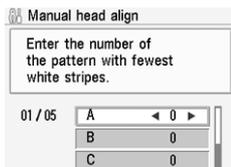
Cause	Action
Auto head align has failed. Press [OK] and repeat operation. <See manual>	<p>Possible causes are as follows:</p> <ul style="list-style-type: none"> ● Paper of size other than 5" x 7" / 127.0 x 177.8 mm is loaded in the Rear Tray. Press the OK button on the printer to dismiss the error message, then load one sheet of the supplied 5" x 7" / 127.0 x 177.8 mm paper or same-sized Canon genuine paper* in the Rear Tray. ● Paper is not loaded in the Rear Tray. Press the OK button on the printer to dismiss the error message, and then load paper in the Rear Tray. ● Paper is loaded with the wrong side facing upwards. Press the OK button on the printer to dismiss the error message, then load one sheet of the supplied 5" x 7" / 127.0 x 177.8 mm paper or same-sized Canon genuine paper* with printing side up in the Rear Tray. ● The Paper Guide is not touching the edge of paper. If the Paper Guide is not touching the edge of paper, the paper at a slant passes through inside the printer and the Auto Head Alignment may be failed. Press the OK button on the printer to dismiss the error message, then load one sheet of the supplied 5" x 7" / 127.0 x 177.8 mm paper or same-sized Canon genuine paper* in the Rear Tray. <p>* Use the following paper. Photo Paper Plus Glossy PP-101</p> <ul style="list-style-type: none"> ● Print Head nozzles are clogged. Press the OK button on the printer to dismiss the error message, and print the nozzle check pattern to check the status of the Print Head. To print the nozzle check pattern, see "Printing the Nozzle Check Pattern" on page 27. ● The Paper Output Slot is exposed to strong light. Press the OK button on the printer to dismiss the error message, and then adjust your operating environment and/or the position of the printer so that the Paper Output Slot is not exposed directly to strong light. <p>After carrying out the above measures, if the problem continues after aligning the Print Head again, press the OK button to dismiss the error message, and then perform Manual Print Head Alignment.</p>

Note

Adjusting the Print Head Manually

If the Automatic Print Head Alignment does not work or if you wish to adjust the print head manually, follow the procedure below.

1. Turn on the printer, and then load three sheets of Canon genuine 4" x 6" / 101.6 x 152.4 mm paper in the Rear Tray.
You can also load Canon genuine 5" x 7" / 127.0 x 177.8 mm paper to perform Manual Print Head Alignment.
 - * Slide the Paper Guide against the left side of the paper stack.
 - * Use the Canon genuine 4" x 6" / 101.6 x 152.4 mm paper or Canon genuine 5" x 7" / 127.0 x 177.8 mm paper.
2. Select **Settings**  on the **Home** screen, then press the **OK** button.
3. Select **Maintenance**, then press the **OK** button.
4. Select **Manual head align**, then press the **OK** button.
5. Select **Yes**, then press the **OK** button.
The Print Head Alignment pattern is printed.
The pattern is printed in black and blue only.
6. When "**Did the patterns print correctly?**" is displayed, confirm that the pattern is printed correctly, then select **Yes**, and then press the **OK** button.
7. Check the printed patterns and use the ◀ or ▶ to input the number of the pattern in columns A to E that has the least noticeable streaks, then press the **OK** button.



8. Make sure that the paper is loaded, then press the **OK** button.
The second Print Head alignment pattern is printed.
9. In the same way, select the best patterns for columns F to H, then press the **OK** button.
10. In the same way, print the third sheet and select the best patterns for columns I to N, then press the **OK** button.

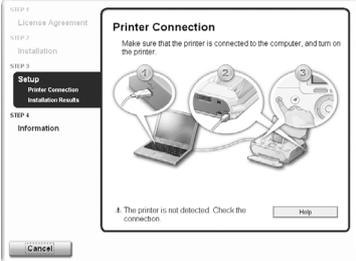
LCD Cannot Be Seen At All

Cause	Action
The Printer is not powered on or the LCD is in the screen-saver mode.	<ul style="list-style-type: none">● If the Power lamp is off The printer is not powered on. Connect the power cord and press the ON/OFF button. The printer will power on and the LCD will display a message.● If the Power lamp is lit On the Operation Panel, press a button the other than the ON/OFF button.

An Unintended Language Is Displayed on the LCD

Cause	Action
The language you want to be displayed is not selected	Select the language you want to be displayed following the procedure below. <ol style="list-style-type: none">(1) Press the HOME button. Wait for about 5 seconds, then select , and then press the OK button.(2) Press the ▶ button to select , then press the OK button.(3) Press the ▼ button four times, then press the OK button. If the Bluetooth unit is connected to the printer, press the ▼ button five times, then press the OK button.(4) Press the ▲ or ▼ button to select the language for the LCD, then press the OK button.

Cannot Install the Printer Driver

Cause	Action
<p>Windows</p> <p>Unable to proceed beyond the Printer Connection screen.</p>	<p>If you were unable to proceed beyond the Printer Connection screen, follow the procedure below to reinstall the printer driver.</p>  <ol style="list-style-type: none"> (1) Click Cancel on the Printer Connection screen. (2) Click Start Over on the Installation Failure screen. (3) Click Back on the screen that appears next. (4) Click Exit on the PIXMA XXX screen (where XXX is your printer's name), then remove the CD-ROM. (5) Turn the printer off. (6) Restart your computer. (7) Make sure you have no application software running, including anti-virus software. (8) Follow the procedure described in your setup sheet to reinstall the printer driver.

Cause	Action
<p>Installation does not start automatically when the Setup CD-ROM is inserted into your computer's disc drive.</p>	<p>Windows</p> <ol style="list-style-type: none"> (1) Click Start then Computer. In Windows XP, Click Start then My Computer. In Windows 2000, double-click the My Computer icon on the desktop. (2) Double-click the CD-ROM icon  on the displayed window. <p>Note</p> <p>To use the Run command to start the setup program, specify your disc drive and then the name of the setup program, MSETUP4.EXE. The drive letter of the disc drive depends on your computer.</p> <p>Macintosh</p> <p>Double-click the CD-ROM icon on your desktop to start installation.</p> <p>If the CD-ROM icon is not displayed, restart your computer. If the icon is still not displayed, try different disks and see if they are displayed. If other disks are displayed, there is a problem with the Setup CD-ROM. Contact your Canon service representative.</p>
<p>Installation procedure not followed correctly.</p>	<p>Follow the procedure described in your setup sheet for proper installation.</p> <p>If the printer driver was not installed correctly, uninstall the printer driver, restart your computer, and then reinstall the printer driver. Refer to the <i>PC Printing Guide</i> on-screen manual.</p> <p>Windows</p> <p>Note</p> <p>If the installer was forced to be terminated due to a Windows error, the system may be in an unstable condition and you may not be able to install the printer driver. Restart your computer before reinstalling.</p>

Cannot Connect to Computer Properly

■ Printing Speed Is Slow/USB2.0 Hi-Speed Connection Does Not Work

Cause	Action
Your system environment is not fully compatible with USB 2.0 Hi-Speed.	<p>If your system environment is not fully compatible with USB 2.0 Hi-Speed, the printer will operate at a lower speed provided under USB 1.1. In this case, the printer operates properly but printing speed may slow down due to communication speed.</p> <p>Check the following to ensure that your system environment supports USB 2.0 Hi-Speed connection.</p> <ul style="list-style-type: none"> ● The USB port on your computer supports USB 2.0 Hi-Speed connection. ● The USB cable, and the USB hub if you are using one, support USB 2.0 Hi-Speed connection. Be sure to use a certified USB 2.0 Hi-Speed cable. We recommend the cable to be no longer than around 10 feet/3 meters. ● The operating system of your computer supports USB 2.0 Hi-Speed connection. Obtain and install the latest update for your computer. ● The USB 2.0 Hi-Speed driver operates properly. Obtain the latest version of the USB 2.0 Hi-Speed driver compatible with your hardware and install it on your computer. <p> Important For details on USB 2.0 Hi-Speed of your system environment, contact the manufacturer of your computer, USB cable, or USB hub.</p>

■ “This device can perform faster” Message Is Displayed

Cause	Action
Your system environment is not fully compatible with USB 2.0 Hi-Speed.	Your system environment is not compatible with USB 2.0. See “Printing Speed Is Slow/USB2.0 Hi-Speed Connection Does Not Work” above.

Print Results Not Satisfactory

If the print result is not satisfactory such as white streaks, misaligned lines, and uneven colors, confirm the paper and print quality settings first.

● Check 1: Do the page size and media type settings match the size and type of the loaded paper?

When these settings are incorrect, you cannot obtain a proper print result. If you are printing a photograph or an illustration, incorrect paper type setting may reduce the quality of printout color.

Also, if you print with an incorrect paper type setting, the printed surface may be scratched. In borderless printing, uneven coloring may occur depending on the combination of the paper type setting and the loaded paper.

● Check 2: Did you set the print quality setting appropriately?

Select a print quality option suitable to the paper and image for printing. If you notice blurs or uneven colors, increase the print quality setting and try printing again.

* When printing from a PictBridge compliant device, set the print quality setting by using the Operation Panel on the printer. You cannot make this setting from a PictBridge compliant device.

* You cannot change the print quality setting when printing from a wireless communication device.

The method to confirm the paper and print quality settings differs depending on what you do with your printer.

To print from your memory card by operating the printer	Confirm by using the Operation Panel on the printer. See “Print Setting Screens” on page 15.
To print from a PictBridge compliant device	Confirm by using your PictBridge compliant device or the Operation Panel on the printer. See “Printing Photographs Directly from a Compliant Device” on page 21.
To print from a wireless communication device	Confirm by using the Operation Panel on the printer. When printing data through Infrared communication, see “Printing Photographs from a Wireless Communication Device” on page 25. When printing data through Bluetooth communication, refer to the <i>User’s Guide</i> on-screen manual.
To print from a computer	Confirm by using the printer driver. Refer to the <i>PC Printing Guide</i> on-screen manual.

● Check 3: If the problem is not resolved, there may be other causes.

See also the sections below.

■ Printing Does Not Start/Printing Is Blurred/Colors Are Wrong/Straight Lines Are Misaligned

Cause	Action
Ink tank is empty.	See "Error Message Is Displayed on the LCD" on page 35 to identify the ink error, and then take the appropriate action depending on the error condition.
Print Head nozzles are clogged.	See "When Printing Becomes Faint or Colors Are Incorrect" on page 27 and perform any necessary maintenance operation.
The media is loaded with the wrong side facing upwards.	Many types of paper are made to be printed on only a particular side of the paper. Printing on the wrong side may cause unclear prints or incorrect color. For detailed information on the printable side, refer to the instruction manuals supplied with the paper.
The Paper Thickness Lever position is incorrect.	Normally set the Paper Thickness Lever to the right. Depending on the printing content, the printed surface may become scratched. In this case, set the Paper Thickness Lever to the left. * Return the Paper Thickness Lever to the right after printing. If you do not return the lever, the distance between the Print Head and printing paper stays broadened and the inside of the printer will easily get dirty. The image quality also may be decreased. Note If the corners or edges of the printed paper are smudged, try to print with the Paper Thickness Lever set to the left.
Print Head is misaligned.	If you did not align the Print Head, straight lines may be printed misaligned. If you unlocked the Print Head Lock Lever accidentally, make sure to align the Print Head after relocking the lock lever. See "Aligning the Print Head" on page 29 and perform Automatic Print Head Alignment. If this does not solve the problem, see "Adjusting the Print Head Manually" on page 38 and perform Manual Print Head Alignment.

■ White Streaks

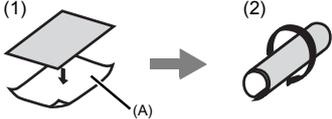
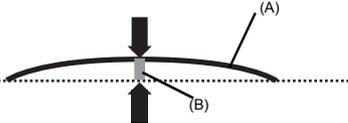
Cause	Action
Print Head nozzles are clogged.	See "When Printing Becomes Faint or Colors Are Incorrect" on page 27 and perform any necessary maintenance operation.

■ Printed Paper Curls or Has Ink Blots

Cause	Action
Paper is too thin.	When printing data with high color saturation such as photographs or images in deep color, we recommend using Photo Paper Pro or other Canon genuine paper.
Printed paper takes long to dry.	In the Operation Panel, specify a longer Ink drying wait time in Settings > Device settings > Print settings . This makes dry faster, which helps prevent curls and ink blots.

■ Printed Surface Is Scratched/Paper Is Smudged

Cause	Action
Paper Feed Roller is dirty.	Clean the Paper Feed Roller. Cleaning the Paper Feed Roller will wear the roller, so perform this procedure only when necessary. For details on cleaning, refer to "Cleaning the Paper Feed Roller (Roller Cleaning)" of the <i>User's Guide</i> on-screen manual.
Inside of the printer is dirty.	Performing many printings may leave some ink inside the printer, causing printouts to be smudged. In this case, perform Bottom Plate Cleaning to clean the inside of the printer. For details on cleaning, refer to "Cleaning the Inside of the Printer (Bottom Plate Cleaning)" of the <i>User's Guide</i> on-screen manual.
Printing on inappropriate type of paper.	<ul style="list-style-type: none"> ● Check to see if the paper you are printing on is not too thick or curled. See "Printing Media" on page 9. ● When performing Borderless Printing, print quality may be reduced at the top and bottom edges of the paper.

Cause	Action
<p>Paper is curled.</p>	<p>If you are using paper with either any of the corners or the whole printing surface curled, the paper may become dirty, not feed properly, or both. Use such paper after correcting paper curl as follows.</p> <p>(1) With the printing side (A) facing up, cover the paper with a fresh sheet of plain paper to avoid staining or scratching the surface.</p> <p>(2) Roll up the paper in a direction opposite to paper curl as seen below.</p>  <p>(3) Check to see that the paper curl is within approximately 0.08 to 0.2 inches / 2 to 5 mm (B) in height.</p>  <p>We recommend printing curl-corrected paper one sheet at a time.</p> <p>Note Depending on the media type, the paper may be smudged or may not be fed properly even if it is not curled. In such case, follow the procedure described above to curl the paper before printing. This may improve the print result.</p>

Cause	Action
<p>The Paper Thickness Lever position is incorrect.</p>	<p>Normally set the Paper Thickness Lever to the right. Depending on the printing content, the printed surface may become scratched. In this case, set the Paper Thickness Lever to the left.</p> <p>* Return the Paper Thickness Lever to the right after printing. If you do not return the lever, the distance between the Print Head and printing paper stays broadened and the inside of the printer will easily get dirty. The image quality also may be decreased.</p> <p>Note If the corners or edges of the printed paper are smudged, try to print with the Paper Thickness Lever set to the left.</p>
<p>Sheets of paper are scratched</p>	<p>Depending on the media type, printed surface may be scratched as it is fed into the Rear Tray, and printing result is not satisfactory. In this case, load one sheet at a time.</p>

■ Colors Are Uneven or Streaked

Cause	Action
<p>Print Head nozzles are clogged.</p>	<p>See "When Printing Becomes Faint or Colors Are Incorrect" on page 27 and perform any necessary maintenance operation.</p>
<p>Print Head is misaligned.</p>	<p>See "Aligning the Print Head" on page 29 to perform Automatic Print Head Alignment. If this does not solve the problem, see "Adjusting the Print Head Manually" on page 38 to perform Manual Print Head Alignment.</p>

Printer Does Not Start

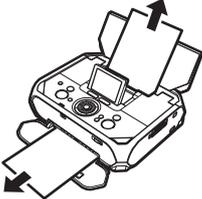
■ Printing Does Not Start

Cause	Action
Ink tank is empty.	Confirm the error message displayed on the LCD and take the appropriate action to resolve the error.
Ink tank is not installed securely.	If the ink lamp is not lit, press the  mark on the ink tank until it clicks into place. The ink lamp lights up red when the ink tank is fully inserted.

Paper Does Not Feed Properly

Cause	Action
Printing on inappropriate type of paper.	Check to see if the paper you are printing on is not too thick or curled. See "Printing Media" on page 9.
Paper Feed Roller is dirty.	Clean the Paper Feed Roller. Cleaning the Paper Feed Roller will wear the roller, so perform this procedure only when necessary. For details on cleaning, refer to "Cleaning the Paper Feed Roller (Roller Cleaning)" of the <i>User's Guide</i> on-screen manual.
Paper not loaded properly.	Make sure of the following when you load paper in the printer. <ul style="list-style-type: none"> ● When loading two or more sheets of paper, align the edges of the sheets before loading. ● Always load the paper in portrait orientation in the Rear Tray, regardless of the printing orientation. ● Load the paper with the print side facing UP. Align the paper stack against the right side of the Rear Tray and slide the Paper Guide so that it just touches the left edge of the stack.
Foreign object in the Rear Tray.	Make sure that there are no foreign objects in the Rear Tray.

Paper Jam

Cause	Action
Paper jammed in the Paper Output Slot or the Rear Tray.	<p>Remove the paper following the procedure below.</p> <p>(1) Slowly pull the paper out, either from the Rear Tray or from the paper output slot, whichever is easier.</p>  <ul style="list-style-type: none"> ● If the paper tears and a piece remains inside the printer, open the Printer Cover and remove it. Be careful not to touch the components inside the printer. After removing all paper, close the Printer Cover, turn the printer off, and turn it back on. ● If you cannot pull the paper out, turn the printer off and turn it back on. The paper will be ejected automatically. <p>(2) Reload the paper in the printer, and press the OK button on the printer. If you turned off the printer in step (1), all print jobs in queue are canceled. Reprint if necessary.</p> <p> Note</p> <ul style="list-style-type: none"> ● For details on how to load paper, see "Loading Printing Paper" on page 8. ● When reloading the paper in the printer, see "Paper Does Not Feed Properly" on left column to confirm that you are using the correct paper and are loading it into the printer correctly. <p>If you cannot remove the paper or the paper tears inside the printer, or if the paper jam error continues after removing the paper, contact your Canon Service representative.</p>

Cause	Action
Landscape credit card-sized paper jammed inside the printer.	<p>Do not load credit card-sized paper in the landscape orientation.</p> <p>Remove the paper following the procedure below.</p> <p>(1) Load a single sheet of the paper in the Rear Tray in portrait orientation. Do not load it in the landscape orientation.</p> <p>(2) Start printing. The paper is fed and then pushes out the jammed paper as it ejects.</p> <p>If you cannot remove the jammed paper, contact your Canon Service representative.</p>

The Power Lamp (blue) and Alarm Lamp (orange) Flash Alternately

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

If the problem is not resolved, contact your Canon Service representative.

Error Message Appears on a PictBridge Compliant Device

The following are the possible errors that may occur when printing directly from a PictBridge compatible device and the countermeasures to clear them.

Note

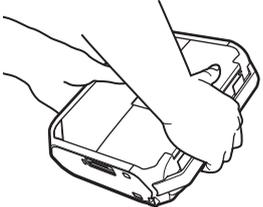
- This section describes errors that are indicated on Canon-brand PictBridge compliant devices. The error messages and operations may vary depending on the device you are using.
For errors on non-Canon PictBridge compliant devices, check the error message on the LCD and take the appropriate action to clear the error. For details, see "Error Message Is Displayed on the LCD" on page 35.
- For the errors indicated on the PictBridge compliant device and their solution, also refer to the instruction manual of the device. For other troubles on the device, contact the manufacturer.

Error Message on PictBridge-Compliant Device	Action
"Printer in use"	<p>Images are being printed from the computer.</p> <p>Wait until printing ends.</p> <p>If the printer is warming up, wait until warm-up ends.</p> <p>When it is ready, the printer starts printing automatically.</p>
"No paper"	<p>Load the paper in the Rear Tray, and select Continue in the display on your PictBridge compliant device.</p> <p>* To resume printing, you can also press the OK button on the printer instead of selecting Continue.</p>
"Paper jam"	<p>Select Stop in the display on your camera to stop printing.</p> <p>Remove the jammed paper, load new paper, and press the OK button on the printer and try printing again.</p>

Error Message on PictBridge-Compliant Device	Action
"Paper lever error"	Normally set the Paper Thickness Lever to the right. Depending on the printing content, the printed surface may become scratched. In this case, set the Paper Thickness Lever to the left. * Return the Paper Thickness Lever to the right after printing. If you do not return the lever, the distance between the Print Head and printing paper stays broadened and the inside of the printer will easily get dirty. The image quality also may be decreased.
"Printer cover open"	Close the Printer Cover on the printer.
"No print head"	The Print Head is not installed or defective. For details on how to resolve the error, see "Install the print head. U051 The type of print head is incorrect. Install the correct print head. U052" on page 35.
"Waste tank full"/ "Ink absorber full"	The ink absorber is nearly full. For details on how to resolve the error, see "The ink absorber is almost full. Press [OK] to continue printing. Contact the service center." on page 36.
"No ink"/"Ink cassette error"	An ink tank is not installed properly, or is out of ink. See the error message on the LCD and take the appropriate action to resolve the error. See "Error Message Is Displayed on the LCD" on page 35.
"Ink error"	An ink tank that was once empty is installed. For details on how to resolve the error, see "Printer detected ink out condition of the following ink. Replace the ink tank. U180" on page 36.
"Hardware Error"	The optional battery has running short. Follow the procedure below. (1) Turn the Printer off. (2) Connect the supplied AC adapter or attach the charged battery. (3) Turn the Printer on.
	The ink tank error has occurred. Replace the ink tank. See "Replacing an Ink Tank" on page 30.

Error Message on PictBridge-Compliant Device	Action
"Printer error"	An error requiring servicing might have occurred (Power lamp and Alarm lamp flash alternately). Disconnect the USB cable between the printer and the PictBridge compliant device, turn off the printer, and unplug the power cord of the printer from the power supply. After a while, plug the power cord of the printer back in, turn on the printer, and then reconnect the camera to the printer. If the same error occurs, contact your Canon service representative.

Cannot Remove a Memory Card

Cause	Action
<p>miniSD Card, microSD Card, xD-Picture Card, MEMORY STICK Duo, MEMORYSTICK PRO Duo, or RS-MMC is attempted to insert into the printer without attaching to the special adapter.</p>	<p>Remove the memory card with printer tilted slightly downward. Tilt the printer on the wide table securely placed, otherwise, the printer may drop and cause an accident. If you cannot remove the memory card, contact your Canon service representative.</p>  <p>Important Never attempt to remove a memory card using a thin stick or tweezers. Doing so may damage the printer.</p>

Cannot Print Properly through Wireless Communication

This section describes how to solve the problems occurred during printing data through Infrared communication. As for the problems occurred during printing data through Bluetooth communication, refer to the *User's Guide* on-screen manual.

Cause	Action
<p>Printer placement is inadequate.</p>	<p>When printing through infrared communication, confirm that the IrDA ports on the printer and the mobile phone are placed face to face with each other at a proper angle and distance, and that there is nothing blocking them. Then, retry printing. Operational distance and angle vary depending on the specifications of your mobile phone and your operating environment, but generally place the printer within around 8 inches / 20 cm from the mobile phone in a position that enables proper communication.</p>
<p>During infrared communication, infrared rays were blocked.</p>	<p>During sending, be careful not to interrupt infrared communication with the printer. If it is interrupted, send the data from the mobile phone or the PDA again.</p>
<p>The conditions to print properly through the infrared communication are not met.</p>	<p>The infrared communication function of the printer is only compatible with mobile phones with IrDA compliant infrared communication ports. Printing through infrared communication cannot be performed by any other types of mobile phones. See "Printing Photographs from a Wireless Communication Device" on page 25.</p>

Appendix

Reading the On-screen Manuals

For detailed instructions on installing the on-screen manuals, refer to your setup sheet.

You can view the on-screen manuals in the following way:

Windows

To view the on-screen manual, double-click the **XXX On-screen Manual** shortcut icon on the desktop, or click **Start > All Programs** (or **Programs**) > **Canon XXX Manual > XXX On-screen Manual** (where "XXX" is your printer's name).

System Requirements

Browser: Windows HTML Help Viewer

Note

- Microsoft® Internet Explorer 5.0 or later must be installed.
 - The on-screen manual may not be displayed properly depending on your operating system or Internet Explorer version. We recommend that you keep your system up to date with Windows Update.
-

Macintosh

To view the on-screen manual, double-click the **XXX On-screen Manual** alias (where "XXX" is your printer's name) on the desktop.

System Requirements

Browser: Help Viewer

Note

- The on-screen manual may not be displayed properly depending on your operating system. We recommend that you keep your system up to date.
 - We recommend using Safari as your Web browser to view the HTML format on-screen manuals. If Safari is not installed on your computer, download it from Apple Inc. website and install it.
-

About Option

- Portable Kit LK-60 series
The Portable Kit LK-60 series is the kit to operate the printer with the battery, and composed of a battery attachment and battery.
The battery is charged by connecting the AC adapter with connecting to the printer.
For details on how to attach it to the printer, refer to the manual that comes with the Portable Kit.
Printable number of pages when using the battery: Approx. 110 pages (PP-101 4" x 6" (101.6 x 152.4 mm))
* Page number was measured under the following conditions:
 Battery: New battery, fully charged
 Printing method: Continuous printing from an SD card at 23°C (73°F)
 The printable number depends on the size and content of the photo data.
- Bluetooth Unit BU-20
The Bluetooth unit BU-20 is the unit which enables wireless printing from Bluetooth compatible mobile phones or PDAs. For details on how to attach it to the printer and print photos via Bluetooth communication, refer to the *User's Guide* on-screen manual.

Specifications

Printer	
Printing resolution (dpi)	9600 (horizontal)* × 2400 (vertical) * Ink droplets can be placed with a horizontal pitch of 1/9600 inch at minimum. Supported only when printing with a computer.
Interface	USB 2.0 High Speed *1 IrDA ver.1.2 *2 Bluetooth 1.2 (Option) *2 *3 *1 A computer that complies with USB 2.0 Hi-Speed standard is required. Since the USB 2.0 Hi-Speed interface is fully upwardly compatible with USB Full-Speed (USB 1.1), it can be used at USB Full-Speed (USB 1.1). *2 JPEG only *3 Bluetooth connection is for printing only. This printer cannot print data from a PC via Bluetooth communication.
Print width	4.8 inches / 120.2 mm max. (for Borderless Printing: 5 inches / 127 mm)
Acoustic noise level	Approx. 35.5 dB (A) * When printing in the highest print quality mode on Photo Paper Pro.
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 adapter 100-240 V, 50/60 Hz
Power consumption	Printing: Approx. 13 W Standby: Approx. 2.2 W OFF: Approx. 0.4 W
External dimensions	Approx. 10.2 (W) × 8.9 (D) × 3.2 (H) inches / Approx. 258 (W) × 225 (D) × 81 (H) mm * With the Paper Feed Tray and Paper Output Tray retracted.
Weight	Approx. 2.5 kg (Approx. 5.4 lb.) * With the Print Head and the ink tank installed.

Printer	
Print Head	Total 1,536 nozzles (C/M each 512 nozzles, Y/Dye BK each 256 nozzles)

AC Adapter	
External dimensions	Approx. 4.7 (W) × 2.3 (D) × 1.3 (H) inches / Approx. 118 (W) × 58 (D) × 32 (H) mm (excluding protruding portion) Approx. 5.2 (W) × 2.3 (D) × 1.3 (H) inches / Approx. 130 (W) × 58 (D) × 32 (H) mm (including protruding portion)
Weight	Approx. 230 g (Approx. 8.2 oz.)
Rated input	AC 100-240 V
Rated output	DC 16 V, 2.0 A

Camera Direct Print (PictBridge)	
Paper size	4" x 6" / 101.6 x 152.4 mm, 5" x 7" / 127.0 x 177.8 mm*, Credit card, Wide* * Can be selected only on certain Canon-brand PictBridge compliant devices.
Paper type	Default (Selections based on the printer setting), Photo (Photo Paper Plus Glossy, Glossy Photo Paper, Glossy Photo Paper "Everyday Use", Photo Paper Glossy, Photo Paper Plus Semi-gloss, Photo Stickers), Fast Photo (Photo Paper Pro)
Layout	Default (Selections based on the printer setting), Borderless, Bordered, N-up (2, 4, 9, 16*) * Layout compatible with Canon-brand sticker above. See "About PictBridge Print Settings" on page 22. You can print shooting Info (Exif Data) in the margins of specified photos. Select Layout, then select the item displayed with the [i] icon. (Note that this print setting cannot be used for some models.)
Image optimize	Default (Selections based on the printer setting), On, Off, "VIVID", "NR" (Noise Reduction)*, "Face"*, "Red eye"* * If using a Canon PictBridge compliant camera, you can select it.
Print date/file no.	Default (Off: No printing), Date, File No., Both, Off
Trimming	Default (Off: No trimming), On (follow camera's setting), Off

Minimum System Requirements

Note

Conform to the operating system's requirements when higher than those given here.

	Windows	Macintosh
Operating System Processor RAM	<p>Windows Vista Pentium II (including compatible processors) 300 MHz 128 MB</p> <p>Windows XP SP1, SP2 Pentium II (including compatible processors) 300 MHz 128 MB</p> <p>Windows 2000 Professional SP2, SP3, SP4 Pentium II (including compatible processors) 300 MHz 128 MB</p> <p>Note: Operation can only be guaranteed on a PC preinstalled Windows Vista, XP or 2000.</p>	<p>Mac OS X v.10.4 Intel processor PowerPC G3 256 MB</p> <p>Mac OS X v.10.2.8 - v.10.3 PowerPC G3 128 MB</p> <p>Note: Hard disk must be formatted as Mac OS Extended (Journaled) or Mac OS Extended.</p>
Browser	Internet Explorer 6.0-	Safari
Hard Disk Space	400 MB Note: For bundled software installation.	200 MB Note: For bundled software installation.
CD-ROM Drive	Required	
Other restrictions	SVGA 800 x 600	

To upgrade from Windows XP to Windows Vista, first uninstall software bundled with the Canon inkjet printer.

Additional System Requirements for On-Screen Manuals

Windows

Browser: Windows HTML Help Viewer
Note: Microsoft Internet Explorer 5.0 or later must be installed. The on-screen manual may not be displayed properly depending on your operating system or Internet Explorer version. We recommend that you keep your system up to date with Windows Update.

Macintosh

Browser: Help Viewer
Note: The on-screen manual may not be displayed properly depending on your operating system or Help Viewer version. We recommend that you keep your system up to date with Software Update.

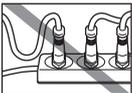
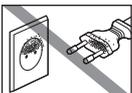
Specifications are subject to change without notice.

Safety Precautions

Please read the safety warnings and cautions provided in this manual to ensure that you use the printer safely. Do not attempt to use the 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. 
	If you hear thunder, disconnect the power supply of the printer and refrain from using it. Leaving the printer plugged in may cause fire, electric shock, or damage to the printer, depending on the thunder storm.
	Use the power cable included with the printer.
	Use only power supplies listed in the user instructions (Canon AC Adapter: K30285 and/or Li-ion Battery Pack: Canon K30274). Do not use them 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 highly 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.
Power supply	Ensure that the area around the power outlet is kept clear at all times so you can easily unplug the power cord if necessary. 
	Never remove the plug by pulling on the cord. 

	Do not use an extension lead/cord.	
Working around the printer	Never put your hands or fingers in the printer while it is printing.	
	Do not place any object on the printer.	
	Do not place metal objects (paper clips, staples, etc.) or containers of flammable solvents (alcohol, thinners, etc.) on top of the printer.	
	If any foreign object (metal or liquid) fall into the printer, unplug the power cord and call for service.	
	Do not transport or store the printer on a slant, vertically or upside-down, as the ink may leak and damage the printer.	
Print Head and ink tank	For safety reasons, store Print Head and ink tank out of the reach of small children. If a child ingests any ink, consult a doctor immediately.	
	Do not shake Print Head or ink tank. 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.	
During printing	Do not touch the part around the ejecting paper during printing. This could cause the printer to malfunction.	
AC Adapter	When you pack the 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.	

European Union (and EEA) only.



This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2002/96/EC) and your national law. This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste

equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or your household waste disposal service.

For more information regarding return and recycling of WEEE products, please visit www.canon-europe.com/environment.

(EEA: Norway, Iceland and Liechtenstein)

For Customers in Europe, Middle-East, Africa and Russia only

For Canon Customer Support contacts, please see the back cover of the European Warranty Systems (EWS) Booklet or visit www.canon-europe.com.



Regulatory Information

FCC Notice (U.S.A. Only)

For 120V, 60Hz model

Model Number: K10312

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

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

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

Canon U.S.A., Inc.
One Canon Plaza
Lake Success, NY 11042
1-516-328-5600

Canon U.S.A., INC. LIMITED WARRANTY --- (USA Only)

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

The Product is warranted against defects in materials and workmanship under normal use and service (a) for a period of one (1) year from the date of original purchase when delivered to you in new condition in its original container or (b) for 90 days from the date of original purchase for refurbished Products. Product returned to a Canon USA repair facility or a Canon USA Authorized Service Facility ("ASF"), and proven to be defective upon inspection will be (a) repaired utilizing new, remanufactured, repaired and/or recycled parts (b) exchanged for new or; (c) exchanged for a refurbished Product, as determined by the Canon USA repair facility or the ASF. Warranty repair or replacement shall not extend the original warranty period of the Product. A dated proof of purchase is required at the time of warranty service. A copy of your dated bill of sale will satisfy this requirement. This warranty does not cover any accessories, or any consumables, such as paper or ink cartridges, as to which there shall be no warranty or replacement.

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

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

- (a) Loss of or damage to the Product due to abuse, neglect, mishandling, improper packaging by you, alteration, accident, electrical current fluctuations, improper use, failure to follow operating or maintenance instructions in, or environmental conditions prescribed in, Canon USA's user's manual or other documentation, or services performed by someone other than a Canon USA repair facility or ASF. Without limiting the foregoing, dropping the Product, scratches, and abrasions will be presumed to have resulted from misuse, abuse or failure to operate the Product as set forth in the user's manual or other documentation for the Product.

- (b) Use of parts, media, software or supplies (other than those sold by Canon USA), including non-Canon ink cartridges or refilled ink cartridges, that cause damage to the Product or cause abnormally frequent service calls or service problems.
- (c) If the Product has had its serial number or dating defaced, altered or removed.

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

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

THE PRODUCT OR THE PERSON FOR WHOM IT WAS PURCHASED AS A GIFT, AND STATES YOUR EXCLUSIVE REMEDY.

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

- Interactive troubleshooting, e-mail technical support, the latest driver downloads and answers to frequently asked questions (www.canontechsupport.com)
- Toll-free live technical support Monday—Saturday (excluding holidays) at 1-800-828-4040
- Telephone Device for the Deaf (TDD-1-866-251-3752)
- Repair or Exchange Service Options:

In the event service is required for the Product during the limited warranty period, Canon USA offers two hardware support options:

Authorized Service Facility Carry-In / Mail-In Service

Canon USA's Carry-In/Mail-In Service provides repair or exchange, at Canon USA's option, through Canon USA's Authorized Service Facility (ASF) network. The name and telephone number of the ASF(s) near you may be obtained from Canon USA's Web site at www.canontechsupport.com or by calling the Canon USA Customer Care Center at 1-800-828-4040, or any time while speaking to a technical support person. A Product covered by this limited warranty will be repaired or exchanged, as determined by Canon USA, and returned without charge by the ASF.

InstantExchange Service **

A Canon Customer Care Center or ASF technician will attempt to diagnose the nature of the problem and, if possible, correct it over the telephone. If the problem cannot be corrected over the telephone, and you elect the InstantExchange option, a reference number will be issued to you. You will be asked for the Product serial number and other information pertaining to your Product and for a ship-to location for the replacement Product (must include street address).

The Canon USA repair facility will ship out the replacement Product prepaid by Canon USA. After receipt of the replacement Product (with instructions and a prepaid waybill), follow the enclosed instructions on how to ship your product to the Canon USA repair facility. Your Product must be returned in the shipping carton in which the replacement Product was packed and include the reference number, A COPY OF YOUR DATED PROOF OF PURCHASE (BILL OF SALE), and a complete explanation of the problem. DO NOT INCLUDE ANY OTHER ITEMS WITH THE YOUR PRODUCT IN THE RETURN SHIPPING CARTON, AND BE SURE TO RETAIN YOUR PRINthead, INK CARTRIDGE(S) AND TANK(S).

InstantExchange Service exchanges your Product with a replacement Product, which will normally be shipped the same day if your request for this service is by 3 p.m. E.T. Monday through Friday, except holidays. Canon USA does not guarantee same day shipment in the event of the occurrence of factors beyond

its reasonable control. The replacement Product you receive may be a refurbished or reconditioned unit and will be covered for the balance of the period remaining on your original limited warranty. NOTE THAT BY USING THIS SERVICE YOU WILL KEEP THE REPLACEMENT PRODUCT THAT IS SENT TO YOU. CANON USA WILL RETAIN THE PRODUCT THAT YOU ORIGINALLY PURCHASED, WHICH SHALL BECOME THE PROPERTY OF CANON USA. InstantExchange warranty program service is available only during the express limited-warranty period for your Product and only in the continental United States, Alaska and Hawaii during such period.

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

* Support program specifics are subject to change without notice.

** InstantExchange warranty service is subject to the availability of refurbished or new replacement units.

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

Canon is a registered trademark of Canon Inc.

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For California, USA only

This product contains an internal battery for backup purposes.

Included battery contains Perchlorate Material-special handling may apply.

See <http://www.dtsc.ca.gov/hazardouswaste/perchlorate/> for details.

For Canada only

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Ordering Information

For additional supplies, use the following descriptions and order numbers.

Description

Order

Ink Tanks

CLI-36 Color

1511B002

Canon Specialty Papers

All Occasion Photo Cards (4" x 8"/ 50 sheets)

1029A069

Glossy Photo Paper Credit Card Size (100 sheets)

9157A023

Matte Photo Paper (4" x 6"/ 120 sheets)

7981A014

Photo Paper Glossy (4" x 6"/ 50 sheets)

0775B021

Photo Paper Glossy (4" x 6"/ 100 sheets)

0775B022

Photo Paper Plus Double Sided (5" x 7"/ 10 sheets)

9981A006

Photo Paper Plus Double Sided Album Kit (5" x 7")

0041B005

Photo Paper Plus Glossy (4" x 6"/ 20 sheets)

7980A007

Photo Paper Plus Glossy (4" x 6"/ 50 sheets)

7980A012

Photo Paper Plus Glossy (4" x 6"/ 120 sheets)

7980A022

Photo Paper Plus Glossy (5" x 7"/ 20 sheets)

7980A019

Photo Paper Plus Semi-gloss (4" x 6"/ 50 sheets)

1686B014

Photo Paper Pro (4" x 6"/ 20 sheets)

1029A014

Photo Paper Pro (4" x 6"/ 75 sheets)

1029A027

Photo Stickers (16 stickers/sheet, 5 sheets/pack)

0001C001

Call 1-800-OK-CANON to locate a dealer near you, or visit the Canon eStore at

www.estore.usa.canon.com.



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The following ink tank is compatible with this printer.



CLI-36 Color

For information on product specifications, please visit our website at www.usa.canon.com