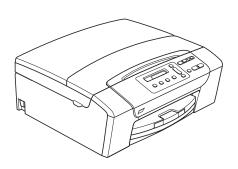


USER'S GUIDE



DCP-145C DCP-165C DCP-185C

Compilation and Publication Notice

Under the supervision of Brother Industries Ltd., this manual has been compiled and published, covering the latest product descriptions and specifications.

The contents of this manual and the specifications of this product are subject to change without notice.

Brother reserves the right to make changes without notice in the specifications and materials contained herein and shall not be responsible for any damages (including consequential) caused by reliance on the materials presented, including but not limited to typographical and other errors relating to the publication.

Use only GENUINE brother supplies

Brother multifunction machines are designed to work ink of a particular specification and work to a level of optimum performance when used with genuine Brother ink cartridges. Brother cannot guarantee this optimum performance if ink or ink cartridges of other specifications are used. Brother does not therefore recommend the use of cartridges other than genuine Brother cartridges with this machine or the refilling of empty cartridges with ink from other sources. If damage is caused to the print head or other parts of this machine as a result of the use of ink or ink cartridges other than genuine Brother products due to the incompatibility or lack of suitability of those products with this machine, any repairs required as a result will not be covered by the warranty.

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Section I



General

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1

General Information

Using the documentation

Thank you for buying a Brother machine! Reading the documentation will help you make the most of your machine.

Symbols and conventions used in the documentation

The following symbols and conventions are used throughout the documentation.

Bold Bold typeface identifies specific

buttons on the machine's control panel, or on the computer screen.

Italicized typeface emphasizes

an important point or refers you

to a related topic.

Courier New Text in Courier New font identifies messages on the LCD of the machine.



Warnings tell you what to do to prevent possible personal injury.



Cautions specify procedures you must follow or avoid to prevent possible damage to the machine or other objects.



Electrical Hazard icons alert you to possible electrical shock.



Notes tell you how you should respond to a situation that may arise or give tips about how the operation works with other features.



Improper Setup icons alert you to devices and operations that are not compatible with the machine.

Accessing the Software User's Guide

This User's Guide does not contain all the information about the machine such as how to use the advanced features of the Printer and Scanner. When you are ready to learn detailed information about these operations, read the Software User's Guide that is on the CD-ROM.

Viewing Documentation

Viewing Documentation (For Windows[®])

To view the documentation, from the **Start** menu, point to **Brother**, **DCP-XXXX** (where XXXX is your model number) from the programs group, and then select **User's Guides in HTML format**.

If you have not installed the software, you can find the documentation by following the instructions below:

- 1 Turn on your PC. Insert the Brother CD-ROM into your CD-ROM drive.
- If the model name screen appears, click your model name.

If the language screen appears, click your language. The CD-ROM Main Menu will appear.





If this window does not appear, use Windows[®] Explorer to run the start.exe program from the root directory of the Brother CD-ROM.

- 4 Click **Documentation**.
- 6 Click the documentation you want to read.
 - HTML documents: Software User's Guide in HTML format.

This format is recommended for viewing on your computer.

■ PDF documents: User's Guide for stand-alone operations, Software User's Guide in PDF format.

This format is recommended for printing the manuals. Click to go to the Brother Solution Center, where you can view or download the PDF documents. (Internet access and PDF Reader software are required.)

How to find Scanning instructions

There are several ways you can scan documents. You can find the instructions as follows:

Software User's Guide

- Scanning (For Windows[®] 2000 Professional/Windows[®] XP and Windows Vista[®])
- ControlCenter3 (For Windows[®] 2000 Professional/Windows[®] XP and Windows Vista[®])

Presto!® PageManager® User's Guide

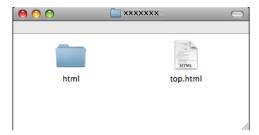
■ Instructions for scanning directly from Presto!® PageManager®. The complete Presto!® PageManager® User's Guide can be viewed from the Help selection in the Presto!® PageManager® application.

Viewing Documentation (For Macintosh®)

1 Turn on your Macintosh®. Insert the Brother CD-ROM into your CD-ROM drive. The following window will appear.



- 2 Double-click the Documentation icon.
- 3 Double-click your language folder.
- 4 Double-click **top.html** file to view the **Software User's Guide** in HTML format.



- 6 Click the documentation you want to read.
 - Software User's Guide: Software User's Guide in HTML format

How to find Scanning instructions

There are several ways you can scan documents. You can find the instructions as follows:

Software User's Guide

- Scanning
 (For Mac OS® X 10.2.4 or greater)
- ControlCenter2
 (For Mac OS® X 10.2.4 or greater)

Presto!® PageManager® User's Guide

■ Instructions for scanning directly from Presto![®] PageManager[®]. The complete Presto![®] PageManager[®] User's Guide can be viewed from the Help selection in the Presto![®] PageManager[®] application.

Accessing Brother Support (For Windows®)

You can find all the contacts you will need, such as Web support (Brother Solutions Center).

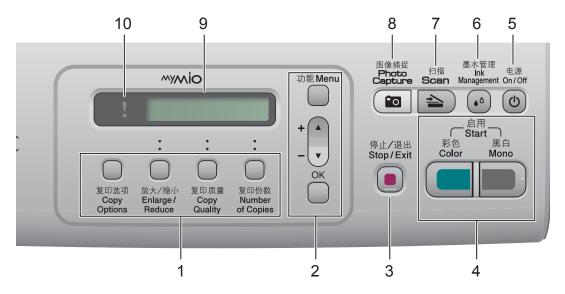
Click Brother Support on the Main Menu. The following screen will appear:



- To access our web site (www.brother.com), click Brother Home Page.
- For the latest news and product support information (http://solutions.brother.com), click Brother Solutions Center.
- To visit our web site for original Brother supplies (http://www.brother.com/original/), click Supplies Information.
- To access the Brother CreativeCenter (http://www.brother.com/creativecenter/) for FREE photo projects and printable downloads, click **Brother** CreativeCenter.
- To return to the main page, click Back or if you have finished, click Exit.

Control panel overview

The DCP-145C, DCP-165C and DCP-185C have the same control panel keys.



1 Copy keys:

Lets you temporarily change the copy settings when in copy mode.

■ Copy Options

You can quickly and easily select temporary settings for copying.

■ Enlarge/Reduce

Lets you enlarge or reduce copies depending on the ratio you select.

■ Copy Quality

Use this key to temporarily change the quality of your copies.

■ Number of Copies

Use this key to make multiple copies.

2 Menu keys:

■ Menu

Lets you access the main menu.

+ ∆ or - ▼

Press to scroll through the menus and options.

■ OK

Lets you select a setting.

3 Stop/Exit

Stops an operation or exits from a menu.

4 Start keys:

■ Mono Start

Lets you start making copies in monochrome. Also lets you start a scanning operation (in color or mono, depending on the scanning setting in the ControlCenter software).

■ Color Start

Lets you start making copies in full color. Also lets you start a scanning operation (in color or mono, depending on the scanning setting in the ControlCenter software).

5 On/Off

You can turn the machine on and off.

If you turn the machine off, it will still periodically clean the print head to maintain print quality.

6 Ink Management

Lets you clean the print head, print a test page to check the print quality, and check the available ink volume.

📤 Scan

Lets you access Scan mode.

8 Photo Capture

Lets you access the PhotoCapture Center $^{\text{TM}}$ mode.

9 LCD (liquid crystal display)

Displays messages on the screen to help you set up and use your machine.

10 Warning LED

Blinks in orange when the LCD displays an error or an important status message.



Most of the illustrations in this User's Guide show the DCP-145C.

Warning LED indications

The Warning LED (Light Emitting Diode) is a light that shows the DCP status. The LCD shows the current machine status when the machine is idle.

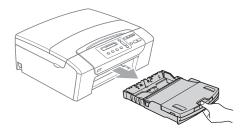


LED	DCP status	Description
Off	Ready	The DCP is ready for use.
Orange	Cover open	The cover is open. Close the cover. (See Error and Maintenance messages on page 62.)
	Cannot print	Replace the ink cartridge with a new one. (See Replacing the ink cartridges on page 68.)
	Paper error	Put paper in the tray or clear the paper jam. Check the LCD message. (See Troubleshooting and Routine Maintenance on page 58.)
	Other messages	Check the LCD message. (See Troubleshooting and Routine Maintenance on page 58.)

Loading documents and paper

Loading paper and other print media

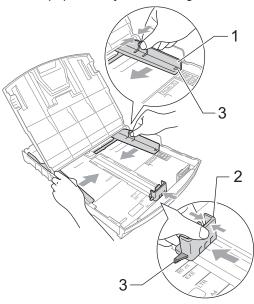
1 If the paper support flap is open, close it, and then pull the paper tray completely out of the machine.



2 Lift the output paper tray cover (1).

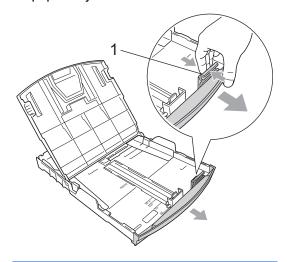


With both hands, gently press and slide the paper side guides (1) and paper length guide (2) to fit the paper size. Make sure that the triangular marks (3) on the paper side guides (1) and paper length guide (2) line up with the mark for the paper size you are using.

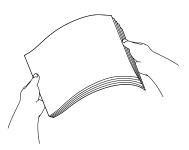


Note

When you use Legal size paper, press and hold the universal guide release button (1) as you slide out the front of the paper tray.



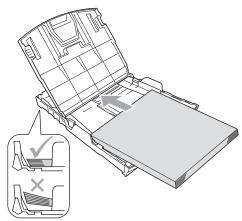
Fan the stack of paper well to avoid paper jams and misfeeds.





Always make sure that the paper is not curled.

5 Gently put the paper into the paper tray print side down and top edge in first. Check that the paper is flat in the tray.

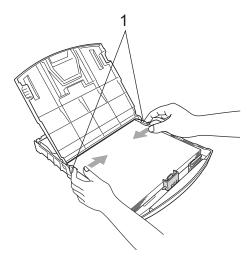




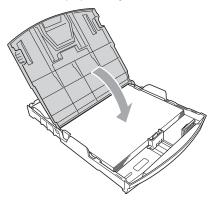
Be careful that you do not push the paper in too far; it may lift at the back of the tray and cause feed problems.

6 Gently adjust the paper side guides (1) to the paper with both hands.

Make sure the paper side guides touch the sides of the paper.



7 Close the paper tray cover.



8 Slowly push the paper tray completely into the machine.



Chapter 2

While holding the paper tray in place, pull out the paper support (1) until it clicks and unfold the paper support flap (2).





Do not use the paper support flap for Legal paper.

Loading envelopes and post cards

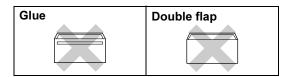
About envelopes

- Use envelopes that weigh between 80 to 95 g/m².
- Some envelopes need margin settings to be set in the application. Make sure you do a test print first before printing many envelopes.

CAUTION

DO NOT use any of the following types of envelopes, as they will cause paper feed problems:

- If they are of a baggy construction.
- That are embossed (have raised writing on them).
- · That have clasps or staples.
- · That are pre-printed on the inside.



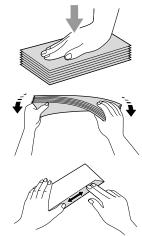
Occasionally you may experience paper feed problems caused by the thickness, size and flap shape of the envelopes you are using.

How to load envelopes and postcards

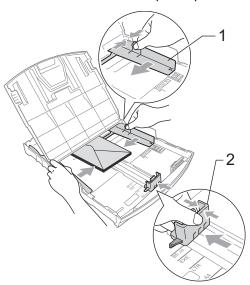
1 Before loading, press the corners and sides of envelopes or post cards to make them as flat as possible.



If envelopes or post cards are 'double-feeding', put one envelope in the paper tray at a time.

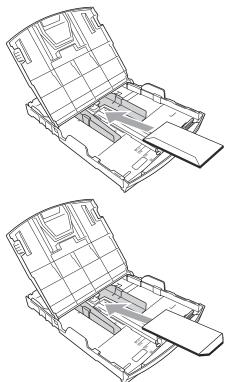


2 Put envelopes or post cards into the paper tray with the address side down and the leading edge (top of the envelopes) in first. With both hands, gently press and slide the paper side guides (1) and paper length guide (2) to fit the size of the envelopes or post cards.



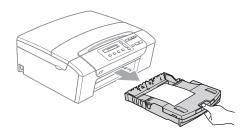
If you have problems when printing on envelopes, try the following suggestions:

- 1 Make sure the flap is either to the side of the envelope or to the back edge of the envelope when printing.
- Adjust the size and margin in your application.



Removing small printouts from the machine

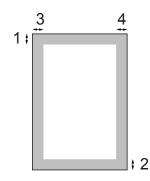
When the machine ejects small paper onto the output paper tray you may not be able to reach it. Make sure printing has finished, and then pull the tray completely out of the machine.



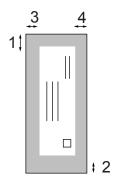
Printable area

The printable area depends on the settings in the application you are using. The figures below show the unprintable areas on cut sheet paper and envelopes. The machine can print in the shaded areas of cut sheet paper when the Borderless print feature is available and turned on. (See *Borderless printing* on page 39.)

Cut Sheet Paper



Envelopes



	Top (1)	Bottom (2)	Left (3)	Right (4)
Cut Sheet	3 mm	3 mm	3 mm	3 mm
Envelopes	12 mm	24 mm	3 mm	3 mm



The Borderless feature is not available for envelopes.

Acceptable paper and other print media

The print quality can be affected by the type of paper you use in the machine.

To get the best print quality for the settings you have chosen, always set the Paper Type to match the type of paper you load.

You can use plain paper, inkjet paper (coated paper), glossy paper, transparencies and envelopes.

We recommend testing various paper types before buying large quantities.

For best results, use the Brother paper.

- When you print on inkjet paper (coated paper), transparencies and glossy paper, be sure to choose the correct print media in the 'Basic' tab of the printer driver or in the Paper Type setting of the menu.
- When you print on Brother Photo paper, load one extra sheets of the same photo paper in the paper tray. An extra sheet has been included in the paper package for this purpose.
- When you use transparencies or photo paper, remove each sheet at once to prevent smudging or paper jams.
- Avoid touching the printed surface of the paper immediately after printing; the surface may not be completely dry and may stain your fingers.

Recommended print media

To get the best print quality, we suggest using Brother paper. (See table below.)

If Brother paper is not available in your country, we recommend testing various papers before purchasing large quantities.

We recommend using '3M Transparency Film' when you print on transparencies.

Brother paper

Paper Type	Item
A4 Plain	BP60PA
A4 Glossy Photo	BP71GA4
A4 Inkjet (Matte)	BP60MA
10 x 15 cm Glossy Photo	BP71GP

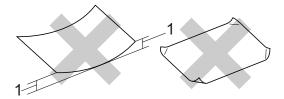
Handling and using print media

- Store paper in its original packaging, and keep it sealed. Keep the paper flat and away from moisture, direct sunlight and heat.
- Avoid touching the shiny (coated) side of photo paper. Load photo paper with the shiny side facing down.
- Avoid touching either side of transparencies because they absorb water and perspiration easily, and this may cause decreased output quality. Transparencies designed for laser printers/copiers may stain your next document. Use only transparencies recommended for inkjet printing.
- You can only print on both sides of the paper with PC printing. See Printing for Windows® in the Software User's Guide on the CD-ROM.

CAUTION

DO NOT use the following kinds of paper:

 Damaged, curled, wrinkled, or irregularly shaped paper



1 2 mm or greater

- · Extremely shiny or highly textured paper
- Paper that cannot be arranged uniformly when stacked
- Paper made with a short grain

Paper capacity of the output paper tray

Up to 50 sheets of 20 lb Letter or 80 g/m² A4 paper.

Transparencies or photo paper must be picked up from the output paper tray one page at a time to avoid smudging.

Choosing the right print media

Paper type and size for each operation

Paper Type Paper Size		Paper Type Paper Size			Usage		
			Сору	Photo Capture	Printer		
Cut Sheet	Letter	216 × 279 mm	Yes	Yes	Yes		
	A4	210 × 297 mm	Yes	Yes	Yes		
	Legal	$216\times356~\text{mm}$	Yes	_	Yes		
	Executive	184 × 267 mm	-	_	Yes		
	JIS B5	$182\times257~\text{mm}$	_	_	Yes		
	A5	$148\times210\;mm$	Yes	_	Yes		
	A6	$105\times148\;mm$	_	_	Yes		
Cards	Photo	10 × 15 cm	Yes	Yes	Yes		
	Photo 2L	13 × 18 cm	_	Yes	Yes		
	Index Card	$127\times203\;mm$	_	_	Yes		
	Post Card 1	100 × 148 mm	-	_	Yes		
	Post Card 2 (Double)	148 × 200 mm	_	-	Yes		
Envelopes	C5 Envelope	162 × 229 mm	-	-	Yes		
	DL Envelope	110 × 220 mm	_	_	Yes		
	COM-10	$105 \times 241 \; mm$	-	_	Yes		
	Monarch	98 × 191 mm	-	_	Yes		
	JE4 Envelope	105 × 235 mm	_	_	Yes		
Transparencies	Letter	216 × 279 mm	Yes	_	Yes		
	A4	$210\times297~\text{mm}$	Yes	_	Yes		

Paper weight, thickness and capacity

Paper Type		Weight	Thickness	No. of sheets
Cut Sheet	Plain Paper	64 to 120 g/m ²	0.08 to 0.15 mm	100 ¹
Sneet	Inkjet Paper	64 to 200 g/m ²	0.08 to 0.25 mm	20
	Glossy Paper	Up to 220 g/m ²	Up to 0.25 mm	20
Cards	Photo Card	Up to 220 g/m ²	Up to 0.25 mm	20
	Index Card	Up to 120 g/m ²	Up to 0.15 mm	30
	Post Card	Up to 200 g/m ²	Up to 0.25 mm	30
Envelopes		75 to 95 g/m ²	Up to 0.52 mm	10
Transparencies		_	_	10

 $^{^{1}}$ Up to 100 sheets of 80 g/m 2 paper.

Loading documents

You can make copies and scan from the ADF (automatic document feeder) (DCP-185C only) and from the scanner glass.

Using the ADF (DCP-185C only)

The ADF can hold up to 15 pages and feeds each sheet individually. Use standard 80 g/m² paper and always fan the pages before putting them in the ADF.

Recommended environment

Temperature: 20 to 30° C
Humidity: 50% to 70%
Paper: 80 g/m²

Document Sizes Supported

Length: 148 to 355.6 mm

Width: 148 to 215.9 mm

Weight: 64 to 90 g/m²

How to load documents



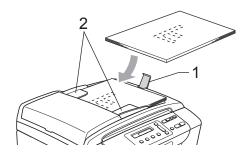
CAUTION

DO NOT pull on the document while it is feeding.

DO NOT use paper that is curled, wrinkled, folded, ripped, stapled, paper clipped, pasted or taped.

DO NOT use cardboard, newspaper or fabric with the ADF. Instead use the scanner glass.

- Make sure documents written with ink are completely dry.
- 1 Unfold the ADF Document Output Support Flap (1).
- 2 Fan the pages well. Make sure you put the documents **face down, top edge first** in the ADF until you feel them touch the feed roller.
- Adjust the paper guides (2) to fit the width of your documents.



CAUTION

DO NOT leave thick documents on the scanner glass. If you do this, the ADF may jam.

Using the scanner glass

You can use the scanner glass to copy or scan pages of a book one page at a time.

Document Sizes Supported

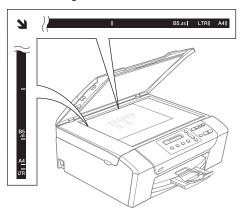
Length: Up to 297 mm
Width: Up to 215.9 mm
Weight: Up to 2 kg

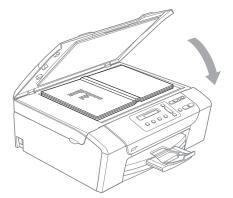
How to load documents



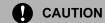
(DCP-185C) To use the scanner glass, the ADF must be empty.

- Lift the document cover.
- Using the document guidelines on the left and top, place the document face down in the upper left corner of the scanner glass.





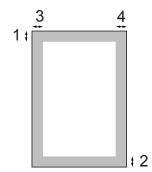
3 Close the document cover.



If you are scanning a book or thick document, DO NOT slam the cover or press on it.

Scannable area

The scannable area depends on the settings in the application you are using. The figures below show the areas you cannot scan on Letter and A4 paper.



Usage Document		Top (1)	Left (3)
	Size	Bottom (2)	Right (4)
Сору	All paper sizes	3 mm	3 mm
Scan	All paper sizes	3 mm	3 mm

General Setup

LCD screen

Changing LCD language

You can change the LCD language.

- 1 Press Menu.
- Press A or V to choose
 0.Initial Setup.
 Press OK.
- 3 Press A or V to choose
 0.Local Language.
 Press OK.
- Press ▲ or ▼ to choose your language. Press OK.
- 5 Press Stop/Exit.

Improving the LCD angle

You can adjust the LCD contrast for a sharper and more vivid display. If you are having difficulty reading the LCD, try changing the contrast setting.

- Press Menu.
- Press A or ▼ to choose
 0.Initial Setup.
 Press OK.
- 3 Press A or V to choose 2.LCD Contrast. Press OK.
- 4 Press ▲ or ▼ to choose Light or Dark. Press OK.
- 5 Press Stop/Exit.

Sleep Mode

You can choose how long the machine must be idle (from 1 to 60 minutes) before it goes into sleep mode. The timer will restart if any operation is carried out on the machine.

- 1 Press Menu.
- Press ▲ or ▼ to choose
 0.Initial Setup.
 Press OK.
- Press A or ▼ to choose 3.Sleep Mode. Press OK.
- 4 Press ▲ or ▼ to choose 1 Min, 2 Mins, 3 Mins, 5 Mins, 10 Mins, 30 Mins or 60 Mins which is the length of time the machine is idle before entering sleep mode.
 - Press OK.
- 5 Press Stop/Exit.

Printing Reports

The following reports are available:

■ Help List

A help list showing how to program your machine.

■ User Settings

Lists your settings.

How to print a report

- 1 Press Menu.
- Press ▲ or ▼ to choose
 3.Print Reports.
 Press OK.
- Press ▲ or ▼ to choose the report you want.
 Press OK.
- Press Mono Start.
- 5 Press Stop/Exit.

Section II



Copy

Making copies

22

Making copies

How to copy

You can use your machine as a copier, making up to 99 copies at a time.

Making a single copy

- 1 Load your document. (See Loading documents on page 17.)
- Press Mono Start for B&W copy or Color Start for color copy.

Making multiple copies

You can make up to 99 copies in one print run.

- 1 Load your document. (See Loading documents on page 17.)
- Press Number of Copies repeatedly until the number of copies you want appears (up to 99). Or press ▲ or ▼ to change the number of copies.
- 3 Press **Mono Start** for B&W copy or Color Start for color copy.



(DCP-185C) To sort your copies, press the **Copy Options** key.

Stop copying

To stop copying, press Stop/Exit.

Copy options

When you want to quickly change the copy settings temporarily for the next multiple copies, use the temporary Copy keys. You can use different combinations.









Copy

成人/编/J Enlarge / Reduce

Copy Quality

复印份数 Number of Copies

The machine returns to its default settings 1 minute after it finishes copying.



You can save the copy settings you use most often by setting them as default. You can find instructions on how to do this in the section for each feature.

Changing copy speed and quality

You can select from a range of quality settings. The default setting is Normal.

To *temporarily* change the quality setting, follow the instructions below:

Press	Normal	Normal is the
		recommended
		mode for ordinary
复印质量		print outs. This
Copy Quality		produces good
Quanty		copy quality with
		good copy speed.
	Fast	Fast copy speed and lowest ink consumption. Use to save time printing documents to be proof-read, large documents or many copies.
	Best	Use best mode to copy precise images such as photographs. This provides the highest resolution and the slowest speed.

- Load your document.
- 2 Press Copy Quality repeatedly to choose Fast, Normal or Best.
- 3 Press Mono Start or Color Start.

To change the default setting, follow the instructions below:

- 1 Press Menu.
- Press ▲ or ▼ to choose 1.Copy. Press OK.
- Press A or V to choose 3.Quality. Press OK.
- Press A or V to choose Fast, Normal or Best.
 Press OK.
- 5 Press Stop/Exit.

Enlarging or reducing the image copied

You can choose an enlargement or reduction ratio. If you choose Fit to Page, your machine will adjust the size automatically to the paper size you set. (DCP-185C only) If you use this setting, use the scanner glass.

Press 放大/缩小 Enlarge / Reduce	Fit to Page
	Custom(25-400%)
	198% 10x15cm→A4
	186%10x15cm→LTR
	142% A5→A4
	100%
	97% LTR→A4
	93% A4→LTR
	৪3%(DCP-145C, DCP-165C)
	83% LGL→A4(DCP-185C)
	69% A4→A5
	47% A4→10x15cm

To enlarge or reduce the next copy follow the instructions below:

- Load your document.
- Press Enlarge/Reduce.
- 3 Do one of the following:
 - Press A or V to choose the enlargement or reduction ratio you want. Press OK.
 - Press ▲ or ▼ to choose Custom(25-400%). Press OK. Press ▲ or ▼ repeatedly to enter an enlargement or reduction ratio from 25% to 400%. Press OK.
 - Press ▲ or ▼ to choose 100% or Fit to Page. Press OK.
- 4 Press Mono Start or Color Start.



- Page Layout Options are not available with Enlarge/Reduce.
- Fit to Page options are not available with Page Layout.
- Fit to Page does not work properly when the document on the scanner glass is skewed more than 3 degrees. Using the document guidelines on the left and top, place your document in the upper left hand corner, with the document face down on the scanner glass.
- Fit to Page is not available for a Legal size document.

Making N in 1 copies or a poster (Page Layout)

The N in 1 copy feature can help you save paper by letting you copy two or four pages onto one printed page.

You can also produce a poster. When you use the poster feature your machine divides your document into sections, then enlarges the sections so you can assemble them into a poster. (DCP-185C only) If you want to print a poster, use the scanner glass.

Important

- Make sure paper size is set to Letter or A4.
- You cannot use the Enlarge/Reduce and stack/sort settings (DCP-185C only) with the N in 1 and Poster features.
- N in 1 color copies are not available.
- (P) means Portrait and (L) means Landscape.
- You can only make one poster copy at a time.

Press	Off(1 in 1)
复印选项 Copy Options and then ▲ or ▼ to choose	2 in 1 (P)
	2 in 1 (L)
	4 in 1 (P)
	4 in 1 (L)
	Poster(3 x 3)
Page Layout	

- Load your document.
- Press Copy Options and ▲ or ▼ to choose Page Layout.
 Press OK.
- 3 Press A or ▼ to choose 2 in 1 (P),
 2 in 1 (L), 4 in 1 (P),
 4 in 1 (L), Poster(3 x 3) or
 Off(1 in 1).
 Press OK.
- Press Mono Start to scan the document. You can also press Color Start if you are using the Poster layout. If you placed the document in the ADF or are making a poster, the machine scans the pages and starts printing. If you are using the scanner glass, go to ⑤.
- After the machine scans the page, press ▲ (Yes) to scan the next page.

Next Page?

A Yes ▼ No

6 Place the next page on the scanner glass. Press **OK**.

Repeat 6 and 6 for each page of the layout.

Set Next Page

Then Press OK

7 After all the pages have been scanned, press ▼ (No) to finish.



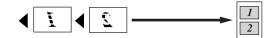
If any glossy paper is selected as the paper type setting for N in 1 copies, the images will be printed as if plain paper had been selected.

If you are copying from the scanner glass, place your document face down in the direction shown below:

■ 2 in 1 (P)



■ 2 in 1 (L)



■ 4 in 1 (P)



■ 4 in 1 (L)



■ Poster (3×3)

You can make a poster size copy of a photograph.



Sorting copies using the ADF (Monochrome only) (DCP-185C only)

You can sort multiple copies. Pages will be sorted in the order 1 2 3, 1 2 3, 1 2 3, and so on.

- 1 Load your document.
- Press Number of Copies repeatedly until the number of copies you want appears.

 Or press ▲ or ▼ to change the number of copies.
- 3 Press Copy Options and ▲ or ▼ to choose Stack/Sort.

 Press OK.
- 4 Press ▲ or ▼ to choose Sort.
 Press OK.
- 5 Press Mono Start.

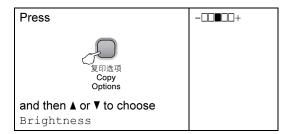


Page Layout is not available with Sort.

Adjusting Brightness and Contrast

Brightness

To temporarily change the brightness setting, follow the instruction below:



- 1 Load your document.
- Press Copy Options and ▲ or ▼ to choose Brightness.
 Press OK.



- 3 Press ▲ or ▼ to make a lighter or darker copy. Press OK.
- 4 Press Mono Start or Color Start.

To change the default setting follow the instructions below:

- 1 Press Menu.
- Press A or V to choose 1.Copy. Press OK.
- Press A or ▼ to choose 4.Brightness. Press OK.
- Press ▲ or ▼ to make a lighter or darker copy.
 Press OK.
- 5 Press Stop/Exit.

Contrast

Adjust the contrast to help an image look sharper and more vivid.

- 1 Press Menu.
- Press ▲ or ▼ to choose 1.Copy. Press OK.
- 3 Press ▲ or ▼ to choose 5.Contrast. Press OK.
- Press ▲ or ▼ to increase or decrease the contrast.
 Press OK.
- 5 Press Stop/Exit.

Paper options

Paper Type

If you are copying on special paper, be sure to select the type of paper you are using so you will get the best print quality.

Press	Plain Paper
复印选项 Copy Options and then ▲ or ▼ to choose Paper Type	Inkjet Paper
	Brother BP71
	Other Glossy
	Transparency

- Load your document.
- Press Copy Options and ▲ or ▼ to choose Paper Type.
 Press OK.
- Press ▲ or ▼ to choose the type of paper you are using. Press OK.
- 4 Press Mono Start or Color Start.

To change the default setting, follow the instructions below:

- 1 Press Menu.
- Press ▲ or ▼ to choose 1.Copy. Press OK.
- 3 Press A or ▼ to choose 1. Paper Type. Press OK.
- 4 Press ▲ or ▼ to choose Plain Paper, Inkjet Paper, Brother BP71, Other Glossy or Transparency. Press OK.
- 5 Press Stop/Exit.

Paper Size

If copying on paper other than A4 size, you will need to change the paper size setting. You can copy on Letter, Legal, A4, A5 or Photo 10×15 cm paper.

Press	Letter
复印选项 Copy Options and then ▲ or ▼ to choose Paper Size	Legal
	A4
	A5
	10(W) x 15(H)cm

- 1 Load your document.
- Press Copy Options and ▲ or ▼ to choose Paper Size.
 Press OK.
- Press ▲ or ▼ to choose the size of paper you are using. Press OK.
- 4 Press Mono Start or Color Start.

To change the default setting, follow the instructions below:

- 1 Press Menu.
- Press A or V to choose 1. Copy. Press OK.
- Press A or ▼ to choose 2.Paper Size.
 Press OK.
- Press ▲ or ▼ to choose the paper size
 you are using, Letter, Legal, A4, A5
 or 10x15cm.
 Press OK.
- 5 Press Stop/Exit.

Chapter 4

Section III



Direct Photo Printing

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Printing photos from a memory card or USB Flash memory drive

PhotoCapture Center™ Operations



The DCP-145C only supports USB Flash memory drives.

Printing from a memory card or USB Flash memory drive without a PC

Even if your machine is not connected to your computer, you can print photos directly from digital camera media or a USB Flash memory drive. (See *How to print from a memory card or USB Flash memory drive* on page 33.)

Scanning to a memory card or USB Flash memory drive without a PC

You can scan documents and save them directly to a memory card or USB Flash memory drive. (See Scan to a memory card or USB Flash memory drive on page 40.)

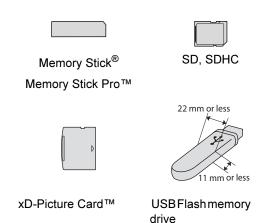
Using PhotoCapture Center™ from your computer

You can access a memory card or USB Flash memory drive that is inserted in the front of the machine from your computer.

(See *PhotoCapture Center*[™] for Windows[®] or *PhotoCapture Center*[™] for Macintosh[®] in the Software User's Guide on the CD-ROM.)

Using memory card or USB Flash memory drive

Your Brother machine has media drives (slots) for use with the following popular digital camera media: Memory Stick[®], Memory Stick Pro™, SD, SDHC and xD-Picture Card™ and USB Flash memory drives.



- miniSD[™] can be used with a miniSD[™] adapter.
- microSD[™] can be used with a microSD[™] adapter.
- Memory Stick DuoTM can be used with a Memory Stick DuoTM adapter.
- Memory Stick Pro Duo[™] can be used with a Memory Stick Pro Duo[™] adapter.
- Memory Stick Micro(M2) can be used with a Memory Stick Micro(M2) adapter.
- Adapters are not included with the machine. Contact a third party supplier for adapters.

The PhotoCapture Center™ feature lets you print digital photos from your digital camera at high resolution to get photo quality printing.

Memory cards (DCP-165C and DCP-185C only) or USB Flash memory drive folder structure

Your machine is designed to be compatible with modern digital camera image files, USB Flash memory drive or memory cards; however, please read the points below to avoid errors:

- The image file extension must be .JPG (Other image file extensions like .JPEG, .TIF, .GIF and so on will not be recognized).
- PhotoCapture Center™ printing without using a PC must be performed separately from PhotoCapture Center™ operations using the PC. (Simultaneous operation is not available.)
- IBM Microdrive[™] is not compatible with the machine.
- The machine can read up to 999 files on a memory card.
- This product supports xD-Picture Card[™] includes Type M / Type M⁺ / Type H (Large Capacity).
- The DPOF file on the memory cards must be in a valid DPOF format. (See *DPOF printing* on page 35.)

Please be aware of the following:

- When printing the Print Index or Print Images, the PhotoCapture Center[™] will print all valid images, even if one or more images have been corrupted. Corrupted image will not be printed.
- (Memory card users)

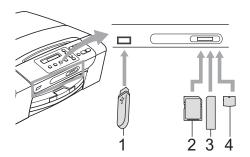
Your machine is designed to read memory cards that have been formatted by a digital camera.

When a digital camera formats a memory card it creates a special folder into which it copies image data. If you need to modify the image data stored on a memory card with your PC, we recommend that you do not modify the folder structure created by the digital camera. When saving new or modified image files to the memory card we also recommend you use the same folder your digital camera uses. If the data is not saved to the same folder, the machine may not be able to read the file or print the image.

(USB Flash memory drive users)
This machine supports USB Flash memory drives that have been formatted by Windows[®].

Getting started

Firmly put a memory card or USB Flash memory drive into the correct slot.



- 1 USB Flash memory drive
- 2 SD, SDHC
- 3 Memory Stick[®], Memory Stick Pro™
- 4 xD-Picture Card™



The USB direct interface supports only a USB Flash memory drive, a PictBridge compatible camera, or a digital camera that uses the USB mass storage standard. Any other USB devices are not supported.

Photo Capture key indications:



- Photo Capture light is on, the memory card or USB Flash memory drive is correctly inserted.
- Photo Capture light is off, the memory card or USB Flash memory drive is not correctly inserted.
- Photo Capture light is blinking, the memory card or USB Flash memory drive is being read or written to.



DO NOT unplug the power cord or remove the memory card or USB Flash memory drive from the media drive (slot) or USB direct interface while the machine is reading or writing to the memory card or USB Flash memory drive (the **Photo Capture** key is blinking). **You will lose your data or damage the card.**

The machine can only read one device at a time.

How to print from a memory card or USB Flash memory drive

Before printing a photo you must first print a thumbnail index to choose the number of the photo you want to print. Follow the instructions below to start printing directly from your memory card or USB Flash memory drive:

1 Make sure you have put the memory card or USB Flash memory drive in the correct slot. The LCD will show the following message:

M.Stick Active

Press PhotoCa...

- 2 Press **Photo Capture**. For DPOF printing, see *DPOF printing* on page 35.
- 3 Press A or V to choose Print Index and then press OK.
- 4 Press Color Start to start printing the index sheet. Make a note of the image number you want to print. See Print Index (Thumbnails) on page 33.
- To print images press ▲ or ▼ to choose
 Print Images in ③ and then press
 OK. (See Printing Images on page 34.)
- 6 Enter the image number and press **OK**.
- 7 Press Color Start to start printing.

Print Index (Thumbnails)

The PhotoCapture Center™ assigns numbers for images (such as No.1, No.2, No.3, and so on).



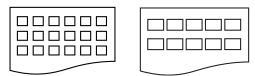
The PhotoCapture Center™ uses these numbers to identify each picture. You can print a thumbnail page to show all the pictures on the memory card or USB Flash memory drive.



- Only file names that are 8 characters or less will be printed correctly on the index sheet.
- File names cannot be printed correctly if they are Chinese. However it does not affect any functions.
- 1 Make sure you have put the memory card or USB Flash memory drive in the correct slot.

Press (Photo Capture).

- Press A or V to choose Print Index.
 Press OK.
- 3 Press A or V to choose
 6 Images/Line or 5 Images/Line.
 Press OK.



6 Images/Line

5 Images/Line

Print time for 5 Images/Line will be slower than 6 Images/Line, but the quality is better.

- 4 Press ▲ or ▼ to choose the type of paper you are using, Plain Paper, Inkjet Paper, Brother BP71 or Other Glossy.
 Press OK.
- Press ▲ or ▼ to choose the paper size you are using, A4 or Letter. Press OK.
- 6 Press Color Start to print.

Printing Images

Before you can print an individual image, you have to know the image number.

- 1 Make sure you have put the memory card or USB Flash memory drive in the correct slot.
- 2 Print the index first. (See *Print Index* (*Thumbnails*) on page 33.)
 - Press (Photo Capture).
- 3 Press A or ▼ to choose Print Images. Press OK.



If your memory card or USB Flash memory drive contains valid DPOF information, the LCD will show DPOF Print: Yes, see DPOF printing on page 35.

Press ▲ repeatedly to enter the image number that you want to print from the thumbnail index.
After you have chosen the image

No.:1,3,6

numbers, press OK.



- Press ▼ to decrease the image number.
- You can enter a range of numbers at one time by using the Copy Options key for a hyphen. (For example, enter 1, Copy Options, 5 to print images No.1 to No.5).
- You can enter up to 12 characters (including commas) for the image numbers you want to print.
- After you have selected the images you want to print, press **OK** to select your settings.

 If you have already chosen your settings, press **Color Start**.
- 6 Press ▲ or ▼ to choose the type of paper you are using, Plain Paper, Inkjet Paper, Brother BP71 or Other Glossy.

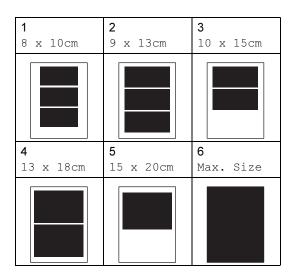
Press OK.

Press ▲ or ▼ to choose the paper size you are using, Letter, A4, 10 x 15cm or 13 x 18cm.

Press OK.

- If you selected Letter or A4, go to 3.
- If you selected another size, go to ⑨.
- If you have finished choosing settings, press Color Start.
- 8 Press A or ▼ to choose the print size
 (8 x 10cm, 9 x 13cm, 10 x 15cm,
 13 x 18cm, 15 x 20cm or
 Max. Size).
 Press OK.
- Do one of the following:
 - To choose the number of copies go to **(1)**.
 - If you have finished choosing settings, press Color Start.
- Press ▲ or ▼ to enter the number of copies you want. Press OK.
- Press Color Start to print.

The printing positions when using A4 paper are shown below.



DPOF printing

DPOF stands for Digital Print Order Format.

Major digital camera manufacturers (Canon Inc., Eastman Kodak Company, Fuji Photo Film Co. Ltd., Matsushita Electric Industrial Co. Ltd. and Sony Corporation) created this standard to make it easier to print images from a digital camera.

If your digital camera supports DPOF printing, you will be able to choose on the digital camera display the images and number of copies you want to print.

When a memory card containing DPOF information is put into your machine, you can print the chosen image easily.

1 Firmly insert the memory card into the correct slot.

M.Stick Active

Press (Photo Capture).

The DPOF file on the memory card must be in a valid DPOF format.

Press A or ▼ to choose Print Images.
Press OK.

If there is a DPOF file on the card, the LCD will show:

DPOF Print:Yes 🕈

- 4 Press ▲ or ▼ to choose

 DPOF Print: Yes. Press OK.
- Press ▲ or ▼ to choose the type of paper you are using, Plain Paper, Inkjet Paper, Brother BP71 or Other Glossy.
 Press OK.
- 6 Press ▲ or ▼ to choose the paper size you are using, Letter, A4, 10 x 15cm or 13 x 18cm.

Press OK.

- If you selected Letter or A4, go to ②.
- If you selected another size, go to ⑧.
- If you have finished choosing settings, press Color Start.
- 7 Press A or ▼ to choose the print size
 (8 x 10cm, 9 x 13cm, 10 x 15cm,
 13 x 18cm, 15 x 20cm or
 Max. Size).
 Press OK.
- 8 Press Color Start to print.



An DPOF File error can occur if the print order that was created on the camera has been corrupted. Delete and recreate the print order using your camera to correct this problem. For instructions on how to delete or recreate the print order, refer to your camera manufacture's support website or accompanying documentation.

PhotoCapture Center™ print settings

These settings will remain until you change them again.

Print quality

- 1 Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- 3 Press A or ▼ to choose
 1.Print Quality.
 Press OK.
- Press A or V to choose Normal or Photo.
 Press OK.
- 5 Press Stop/Exit.

Paper Options

Paper Type

- 1 Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- Press A or V to choose 2. Paper Type. Press OK.
- Press ▲ or ▼ to choose Plain Paper, Inkjet Paper, Brother BP71 or Other Glossy.
 Press OK.
- 6 Press Stop/Exit.

Paper Size

- 1 Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- Press A or V to choose 3. Paper Size. Press OK.
- Press ▲ or ▼ to choose the paper size you are using, Letter, A4, 10 x 15cm or 13 x 18cm.

 Press OK.
- 5 Press Stop/Exit.

Print Size

This setting is available only when you select Letter or A4 in the paper size setting.

- 1 Press Menu.
- Press ▲ or ▼ to choose 2.PhotoCapture. Press OK.
- Press A or ▼ to choose 4.Print Size. Press OK.
- Press A or ▼ to choose the print size you
 are using, (8 x 10cm, 9 x 13cm,
 10 x 15cm, 13 x 18cm, 15 x 20cm
 or Max. Size).
 Press OK.
- 5 Press Stop/Exit.

Color Enhancement

You can turn on the color enhancement feature to print more vivid images.

Brightness

- 1 Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- 3 Press A or V to choose 5.Color Enhance. Press OK.
- Press ▲ or ▼ to choose On (or Off).
 Press OK.
 - If you choose Off, then go to ⑦.
- Press A or ▼ to choose 1.Brightness. Press OK.
- 6 Press ▲ or ▼ to make a lighter or darker print. Press OK.
- Press Stop/Exit.

Contrast

You can select the contrast setting. More contrast will make an image look sharper and more vivid.

- 1 Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- 3 Press A or ▼ to choose
 5.Color Enhance.
 Press OK.
- Press A or ▼ to choose On (or Off). Press OK.
 - If you choose Off, then go to ⑦.

- Fress A or ▼ to choose 2.Contrast. Press OK.
- 6 Press ▲ or ▼ to increase or decrease the contrast.
 Press OK.
- 7 Press Stop/Exit.

White Balance

You can adjust the white areas of an image and bring them back to pure white.

- 1 Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- 3 Press A or V to choose 5.Color Enhance. Press OK.
- Press A or ▼ to choose On (or Off). Press OK.
 - If you choose Off, then go to ⑦.
- 5 Press A or V to choose 3.White Balance. Press OK.
- 6 Press ▲ or ▼ to adjust the degree of the balance. Press OK.
- 7 Press Stop/Exit.

Sharpness

You can enhance the focus of an image by adjusting the sharpness.

- 1 Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- 3 Press ▲ or ▼ to choose 5.Color Enhance. Press OK.
- Press A or ▼ to choose On (or Off). Press OK.
 - If you choose Off, then go to ⑦.
- Press A or V to choose 4. Sharpness. Press OK.
- 6 Press ▲ or ▼ to increase or decrease the sharpness.
 Press OK.
- 7 Press Stop/Exit.

Color Density

You can adjust the total amount of color in the image to improve a washed out or weak picture.

- 1 Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- 3 Press ▲ or ▼ to choose 5.Color Enhance. Press OK.
- Press A or ▼ to choose On (or Off).
 Press OK.
 - If you choose Off, then go to ⑦.
- 5 Press A or V to choose 5.Color Density. Press OK.
- 6 Press ▲ or ▼ to increase or decrease the amount of color.
 Press OK.
- 7 Press Stop/Exit.



Choosing White Balance, Sharpness, or Color Density will make printing time slower.

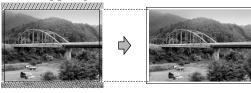
Cropping

If your photo is too long or wide to fit the available space on your chosen layout, part of the image will be automatically cropped.

The default setting is On. If you want to print the whole image, turn this setting to Off.

- 1 Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- Press A or ▼ to choose 6. Cropping. Press OK.
- Press A or ▼ to choose Off (or On). Press OK.
- 6 Press Stop/Exit.

Cropping: On



Cropping: Off



Borderless printing

This feature expands the printable area to the edges of the paper. Printing time will be slightly slower.

- 1 Press Menu.
- Press ▲ or ▼ to choose 2.PhotoCapture. Press OK.
- 3 Press ▲ or ▼ to choose 7.Borderless. Press OK.
- Press ▲ or ▼ to choose Off (or On).
 Press OK.
- 5 Press Stop/Exit.

Date Print

You can print the date if it is already in the data on your photo. The date will be printed on the lower right corner. If the data doesn't have the date information, you cannot use this function.

- 1 Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- Press A or ▼ to choose 8. Date Print. Press OK.
- Press A or ▼ to choose On (or Off).
 Press OK.
- 5 Press Stop/Exit.



The DPOF setting on your camera must be turned off to use the Date Print feature.

Scan to a memory card or USB Flash memory drive

You can scan monochrome and color documents into a memory card or USB Flash memory drive. Monochrome documents will be stored in PDF (*.PDF) or TIFF file formats (*.TIF). Color documents may be stored in PDF (*.PDF) or JPEG (*.JPG) file formats. The default setting is Color 150 dpi and the default file format is PDF. The machine automatically creates file names based on the current date. (For details, see the Quick Setup Guide.) For example, the fifth image scanned on July 1, 2009 would be named 01070905.PDF. You can change the color and quality.

Quality	Selectable File Format
Color 150 dpi	JPEG/PDF
Color 300 dpi	JPEG / PDF
Color 600 dpi	JPEG / PDF
B/W 200x100 dpi	TIFF / PDF
B/W 200 dpi	TIFF/PDF

Insert a Memory Stick[®], Memory Stick Pro™, SD, SDHC, xD-Picture Card™ or USB Flash memory drive into your machine.



WARNING

DO NOT take out the memory card or USB Flash memory drive while **Photo Capture** is blinking to avoid damaging the card, USB Flash memory drive or data stored on the card.

- 2 Load your document.
- 3 Press (Scan).

- 4 Press ▲ or ▼ to choose
 Scan to Media, do one of the following:
 - To change the quality press **OK** and go to step **5**.
 - To start scanning press Mono Start or Color Start.
- Press ▲ or ▼ to choose the quality, and then press OK.
 Do one of the following.
 - To change the file type, go to step **6**.
 - To start scanning press Mono Start or Color Start.
- 6 Press ▲ or ▼ to choose the file type and then press OK.
 Press Mono Start or Color Start.

Changing the image quality

- Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- 3 Press A or ▼ to choose
 0.Scan to Media.
 Press OK.
- Press A or V to choose 1.Quality. Press OK.
- Press ▲ or ▼ to choose

 Color 150 dpi, Color 300 dpi,

 Color 600 dpi, B/W 200x100 dpi

 or B/W 200 dpi.

 Press OK.
- 6 Press Stop/Exit.

Changing the monochrome file format

- 1 Press Menu.
- Press A or ▼ to choose
 2.PhotoCapture.
 Press OK.
- 3 Press A or V to choose 0.Scan to Media. Press OK.
- 4 Press A or V to choose 2.B/W File Type. Press OK.
- Press A or V to choose TIFF or PDF. Press OK.
- 6 Press Stop/Exit.

Changing the color file format

- 1 Press Menu.
- Press ▲ or ▼ to choose
 2.PhotoCapture.
 Press OK.
- 3 Press A or V to choose
 0.Scan to Media.
 Press OK.
- 4 Press A or V to choose 3.ColorFile Type. Press OK.
- Press A or V to choose PDF or JPEG. Press OK.
- 6 Press Stop/Exit.

Understanding the Error Messages

Once you are familiar with the types of errors that can occur while you are using PhotoCapture Center™, you can easily identify and troubleshoot any problems.

■ Hub is Unusable.

This message will appear if a Hub or USB Flash memory drive with a Hub has been put into the USB direct interface.

■ Media Error

This message will appear if you put in a memory card that is either bad or not formatted, or when there is a problem with the media drive. To clear this error, take out the memory card.

■ No File

This message will appear if you try to access a memory card or USB Flash memory drive in the drive (slot) that does not contain a .JPG file.

■ Out of Memory

This message will appear if you are working with images that are too large for the machine's memory.

This message will also appear when a memory card or USB Flash memory drive you are using does not have enough available space to scan the documents.

■ Media is Full.

This message will appear if you are trying to save more than 999 files in a memory card or USB Flash memory drive.

■ Unusable Device

This message will appear if a USB device or USB Flash memory drive that is not supported has been connected to the USB direct interface (For more information, visit us at http://solutions.brother.com.) This message can also appear if you connect a broken device to the USB direct interface.

Printing photos from a camera

Printing photos directly from a PictBridge camera



Your Brother machine supports the PictBridge standard, allowing you to connect to and print photos directly from any PictBridge compatible digital camera.

If your camera is using the USB Mass Storage standard, you can also print photos from a digital camera without PictBridge. See Printing photos directly from a digital camera (without PictBridge) on page 44.

PictBridge requirements

To avoid errors, remember the following points:

- The machine and the digital camera must be connected using a suitable USB cable.
- The image file extension must be .JPG (other image file extensions like .JPEG, .TIF, .GIF and so on will not be recognized).
- PhotoCapture Center[™] operations are not available when using the PictBridge feature.

Setting your digital camera

Make sure your camera is in PictBridge mode. Some of the settings listed below may not be available for your PictBridge compatible digital camera.

Camera Menu Selections	Options
Paper Size	Letter, A4, 10x15 cm, Printer Settings (Default setting) ²
Paper Type	Plain Paper, Glossy Paper, Inkjet Paper, Printer Settings (Default setting) ²
Layout	Borderless: On, Borderless: Off, Printer Settings (Default setting) ²
DPOF setting ¹	-
Print Quality	Normal, Fine, Printer Settings (Default setting) ²
Color Enhancement	On, Off, Printer Settings (Default setting) ²
Date Print	On, Off, Printer Settings (Default setting) ²

- See *DPOF printing* on page 43 for more details.
- If your camera is set to use the Printer Settings (Default setting), the machine will print your photo using the following settings.

Settings	Options
Paper Size	10x15 cm
Paper Type	Other Glossy
Layout	Borderless: On
Print Quality	Photo
Color Enhancement	Off
Date Print	Off

- When your camera does not have any menu selections, this setting is also used.
- The names and availability of each setting depends on the specification of your camera.

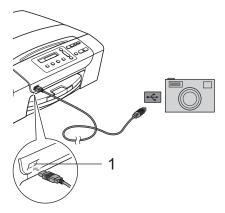
Please refer to the documentation supplied with your camera for more detailed information on changing PictBridge settings.

Printing Images



Remove any memory cards or USB Flash memory drive from the machine before connecting a digital camera.

1 Make sure that your camera is turned off. Connect your camera to the USB direct interface (1) port on the machine using the USB cable.



1 USB direct interface

Turn on the camera. When the machine has recognized the camera, the LCD shows the following message:

Camera Connected

3 Choose the photo you want to print following the instructions from your camera.

When the machine starts printing a photo, the LCD will show Printing.



WARNING

To prevent damage to your machine, do not connect any device other than a digital camera or USB Flash memory drive to the USB direct interface.

DPOF printing

DPOF stands for Digital Print Order Format.

Major digital camera manufacturers (Canon Inc., Eastman Kodak Company, Fuji Photo Film Co. Ltd., Matsushita Electric Industrial Co. Ltd. and Sony Corporation) created this standard to make it easier to print images from a digital camera.

If your digital camera supports DPOF printing, you will be able to choose on the digital camera display the images and number of copies you want to print.



An DPOF File error can occur if the print order that was created on the camera has been corrupted. Delete and recreate the print order using your camera to correct this problem. For instructions on how to delete or recreate the print order, refer to your camera manufacture's support website or accompanying documentation.

Printing photos directly from a digital camera (without PictBridge)

If your camera supports the USB Mass Storage standard, you can connect your camera in storage mode. This enables you to print photos from your camera.

If you would like to print photos in PictBridge mode, see Printing photos directly from a PictBridge camera on page 42.



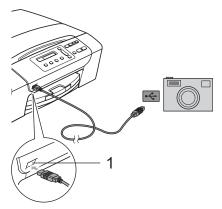
The name, availability and operation differ among digital cameras. Please refer to the documentation supplied with your camera for detailed information, such as how to switch from PictBridge mode to USB mass storage mode.

Printing Images



Remove any memory cards or USB Flash memory drive from the machine before connecting the digital camera.

Connect your camera to the USB direct interface (1) on the machine using the USB cable.



- **USB** direct interface
- Turn on the camera.
- Follow the steps in Printing Images on page 34.



WARNING

To prevent damages to your machine, do not connect any device other than a digital camera or USB Flash memory drive to the USB direct interface.

Understanding the Error Messages

Once you are familiar with the types of errors that can occur while you are using PictBridge, you can easily identify and troubleshoot any problems.

■ Out of Memory

This message will appear if you are working with images that are too large for the machine's memory.

■ Unusable Device

This message will appear if you connect a camera which is not using the USB Mass storage standard. This message can also appear if you connect a broken device to the USB direct interface.

For more detailed solutions see *Error and Maintenance messages* on page 62.

Chapter 6

Section IV



Software

Software features

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7

Software features

The CD-ROM includes the Software User's Guide for features available when connected to a computer (for example, printing and scanning). The guide has easy to use links that, when clicked, will take you directly to a particular section.

You can find information on these features:

- Printing
- Scanning
- ControlCenter3 (for Windows®)
- ControlCenter2 (for Macintosh[®])
- PhotoCapture Center™

How to read the HTML User's Guide

This is a quick reference to use the HTML User's Guide.

For Windows®



If you have not installed the software, see *Viewing Documentation* on page 2.

- 1 From the Start menu, point to Brother, DCP-XXXX (where XXXX is your model number) from the programs group, then click User's Guides in HTML format.
- 2 Click **SOFTWARE USER'S GUIDE** from the Main Menu.



3 Click the heading you would like to view from the list at the left of the window.



For Macintosh®

- 1 Make sure your Macintosh® is turned on. Insert the Brother CD-ROM into your CD-ROM drive.
- 2 Double-click the **Documentation** icon.
- Oouble-click your language folder, and then double-click **top.html**.
- 4 Click **SOFTWARE USER'S GUIDE** in the top menu, and then click the heading you would like to read from the list at the left of the window.



Section V



Appendixes

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Safety and Legal

Choosing a location

Put your machine on a flat, stable surface that is free of vibration and shocks, such as a desk. Put the machine near a standard, grounded electrical socket. Choose a location where the temperature remains between 10° C and 35° C.



WARNING

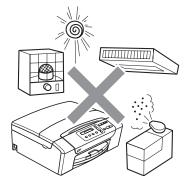
DO NOT put the machine near heaters, air conditioners, refrigerators, medical equipment, chemicals or water.

DO NOT connect your machine to electrical sockets on the same circuit as large appliances or other equipment that might disrupt the power supply.

0

CAUTION

- Avoid placing your machine in a high-traffic area.
- · Avoid placing your machine on a carpet.
- DO NOT expose the machine to direct sunlight, excessive heat, moisture, or dust.
- DO NOT connect your machine to electrical sockets controlled by wall switches or automatic timers.
- · Disruption of power can wipe out information in the machine's memory.
- DO NOT tip the machine, or place it on any tilted surface. Doing this may cause ink spillage and internal damage to your machine.





A

To use the machine safely

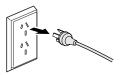
Please keep these instructions for later reference and read them before attempting any maintenance.



WARNING



There are high voltage electrodes inside the machine. Before you clean the inside of the machine, make sure you have unplugged the power cord from the electrical socket. Doing this will prevent an electrical shock.





DO NOT handle the plug with wet hands. Doing this might cause an electrical shock.

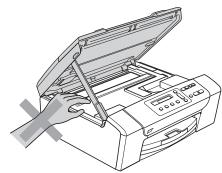




DO NOT pull in the middle of the power cord. Doing this might cause an electrical shock.

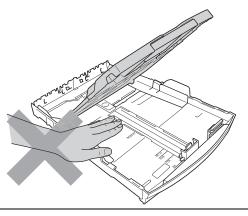


DO NOT put your hands on the edge of the machine under the scanner cover. Doing this may cause injury.



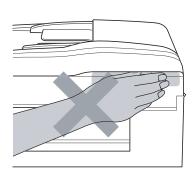


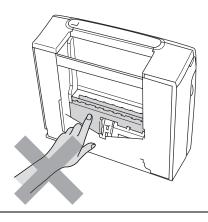
DO NOT put your hands on the edge of the paper tray under the paper tray cover. Doing this may cause injury.





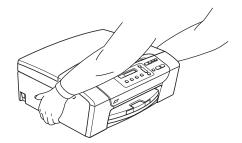
DO NOT touch the area shaded in the illustration. Doing this may cause injury.

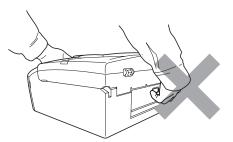






When moving the machine you must lift it from the base, by placing a hand at each side of the unit as shown in the illustration. DO NOT carry the machine by holding the scanner cover or the Jam Clear Cover.







DO NOT use flammable substances, any type of spray, liquid or aerosol cleaners to clean the inside or outside of the machine. Doing this may cause a fire or electrical shock.





If the machine becomes hot, releases smoke, or generates any strong smells, immediately turn off the power switch unplug the machine from the electrical socket. Call your Brother dealer or Brother Customer Service.



If metal objects, water or other liquids get inside the machine, immediately unplug the machine from the electrical socket. Call your Brother dealer or Brother Customer Service.



This product must be installed near an electrical socket that is easily accessible. In case of an emergency, you must unplug the power cord from the electrical socket to shut off the power completely.



This product should be connected to an AC power source within the range indicated on the rating label. DO NOT connect it to a DC power source or inverter. If you are not sure, contact a qualified electrician.



Always make sure the plug is fully inserted.



DO NOT use the machine if the power cord is frayed or damaged, doing so may cause a fire.

CAUTION

Lightning and power surges can damage this product! We recommend that you use a quality surge protection device on the AC power line or unplug the cords during a lightning storm.

Important safety instructions

- Read all of these instructions.
- 2 Save them for later reference.
- 3 Follow all warnings and instructions marked on the product.
- 4 DO NOT use this product near water.
- 5 DO NOT place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- 6 Slots and openings in the cabinet and the back or bottom are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heater. This product should never be placed in a built-in installation unless adequate ventilation is provided.
- 7 Use only the power cord supplied with this machine.
- 8 This product is equipped with a 3-wire grounded plug, a plug having a third (grounded) pin. This plug will only fit into a grounded power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, call your electrician to replace your obsolete outlet. DO NOT defeat the purpose of the grounded plug.
- 9 DO NOT allow anything to rest on the power cord. DO NOT place this product where people can walk on the cord.
- 10 DO NOT place anything in front of the machine that will block printing. DO NOT place anything in the path of printing.
- 11 Wait until pages have exited the machine before picking them up.
- 12 Unplug this product from the power socket and refer all servicing to Brother Authorized Service Personnel under the following conditions:
 - If liquid has been spilled into the product.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally when the operating instructions are followed, adjust only those controls that are covered by the operating instructions.
 Incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - If the product has been dropped or the casing has been damaged.
 - If the product exhibits a distinct change in performance, indicating a need for service.

- 13 To protect your product against power surges, we recommend the use of a power protection device (Surge Protector).
- 14 To reduce the risk of fire, electric shock and injury to people, note the following:
 - DO NOT use this product near appliances that use water, a swimming pool or in a wet basement.
 - DO NOT attempt to operate the machine during an electrical storm or gas leak.

IMPORTANT - For your safety

To ensure safe operation, the supplied three-pin plug must be inserted only into a standard three-pin electrical socket that is effectively grounded through the normal household wiring.

The fact that the equipment operates satisfactorily does not imply that the power is grounded and that the installation is completely safe. For your safety, if in any doubt about the effective grounding of the power, consult a qualified electrician.

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- Certificates of Deposit
- Armed Forces Service or Draft papers.
- Passports
- Postage Stamps (cancelled or uncancelled)
- Immigration Papers
- Welfare documents
- Cheques or Drafts drawn by Governmental Agencies
- Identification Documents, badges or insignias
- Licences and Certificates of Title to motor vehicles

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B

Troubleshooting and Routine Maintenance

Troubleshooting

If you think there is a problem with your machine, check the chart below and follow the troubleshooting tips.

Most problems can be easily resolved by yourself. If you need additional help, the Brother Solutions Center offers the latest FAQs and troubleshooting tips. Visit us at http://solutions.brother.com.

If you are having difficulty with your machine

Printing

Difficulty	Suggestions
No printout	Check the interface cable connection on both the machine and your computer.
	Make sure the machine is plugged in and not turned off.
	Check to see if the LCD is showing an error message. (See <i>Error and Maintenance messages</i> on page 62.)
	One or more ink cartridges are empty. (See <i>Replacing the ink cartridges</i> on page 68.)
	If the LCD says Cannot Print and Replace XX Ink (where XX is an abbreviation of the empty color), see Replacing the ink cartridges on page 68.
	Check that the correct printer driver has been installed and chosen.
	Make sure the machine is online. Click Start and then Printers and Faxes . Choose Brother DCP-XXXX (where XXXX is your model name), and make sure that 'Use Printer Offline' is unchecked.
	When you choose the Print Odd Pages and Print Even Pages settings, you may see a printing error message on your computer, as the machine pauses during the printing process. The error message will disappear after the machine re-starts printing.

Printing (continued)

Difficulty	Suggestions
Poor print quality	Check the print quality. (See Checking the print quality on page 73.)
	Make sure that the Printer Driver or Paper Type setting in the menu matches the type of paper you are using. (See <i>Printing</i> for Windows [®] or <i>Printing</i> and <i>Faxing</i> for Macintosh [®] in the Software User's Guide on the CD-ROM.)
	Make sure that your ink cartridges are fresh. The following may cause ink to clog:
	The expiration date written on the cartridge package has passed. (Brother Original cartridge stay usable for up to two years if kept in their original packaging.)
	■ The ink cartridge was in your machine over six months.
	■ The ink cartridge may not have been stored correctly before use.
	Try using the recommended types of paper. (See Acceptable paper and other print media on page 13.)
	The recommended environment for your machine is between 20° C to 33° C.
White horizontal lines appear in text	Clean the print head. (See Cleaning the print head on page 73.)
or graphics.	Make sure you are using Brother Original Innobella™ ink.
	Try using the recommended types of paper. (See <i>Acceptable paper and other print media</i> on page 13.)
The machine prints blank pages.	Clean the print head. (See Cleaning the print head on page 73.)
	Make sure you are using Brother Original Innobella™ ink.
Characters and lines are stacked.	Check the printing alignment. (See Checking the print alignment on page 74.)
Printed text or images are skewed.	Make sure the paper is loaded properly in the paper tray and the paper side guides are adjusted correctly. (See <i>Loading paper and other print media</i> on page 8.)
	Make sure the Jam Clear Cover is closed properly.
Smudged stain at the top center of the printed page.	Make sure the paper is not too thick or curled. (See Acceptable paper and other print media on page 13.)
Smudged stain at the right or left corner of the printed page.	Make sure the paper is not curled when you print on the back side of the paper with the Print Odd Pages and Print Even Pages settings.
Printing appears dirty or ink seems to run.	Make sure you are using the recommended types of paper. (See <i>Acceptable paper and other print media</i> on page 13.) Don't handle the paper until the ink is dry.
	If you are using photo paper, make sure that you have set the correct paper type. If you are printing a photo from your PC, set the Media Type in the Basic tab of the printer driver.
	Make sure you are using Brother Original Innobella™ ink.
Stains appear on the reverse side or at the bottom of the page.	Make sure the printer platen is not dirty with ink. (See <i>Cleaning the machine printer platen</i> on page 72.)
	Make sure you are using Brother Original Innobella™ ink.
	Make sure you are using the paper support flap. (See <i>Loading paper and other print media</i> on page 8.)
The machine prints dense lines on the page.	Check Reverse Order in the Basic tab of the printer driver.
The printouts are wrinkled.	In the printer driver Advanced tab, click Color Settings , and uncheck Bi- Directional Printing for Windows [®] or Bi-Directional Printing for Macintosh [®] .
	Make sure you are using Brother Original Innobella™ ink.

Printing (continued)

Difficulty	Suggestions	
Cannot perform '2 in 1 ' or '4 in 1 ' printing.	Check that the paper size setting in the application and in the printer driver are the same.	
Print speed is too slow.	Try changing the printer driver setting. The highest resolution needs longer data processing, sending and printing time. Try the other quality settings in the printer driver Advanced tab. Also, click the Color Settings , and make sure you uncheck Color Enhancement .	
	Set the borderless feature off. Borderless printing is slower than normal printing. (See Printing for Windows® or Printing and Faxing for Macintosh® in the Software User's Guide on the CD-ROM.)	
Photo paper does not feed properly.	When you print on Brother photo paper, make sure you always load one additional sheet of photo paper first before loading the paper you want to print on.	
	Clean the paper pick-up roller. (See Cleaning the paper pick-up roller on page 72.)	
Color Enhancement is not working correctly.	If the image data is not full color in your application (such as 256 color), Color Enhancement will not work. Use at least 24 bit color data with the Color Enhancement feature.	
Machine feeds multiple pages	Make sure the paper is loaded correctly in the paper tray. (See Loading paper and other print media on page 8.)	
	Check that more than two types of paper are not loaded in the paper tray at any one time.	
There is a paper jam.	See <i>Printer jam or paper jam</i> on page 66. Make sure the paper length guide is adjusted to the paper size. Do not extend the paper tray when you load A5 or smaller size paper.	
Printed pages are not stacked neatly.	Make sure you are using the paper support flap. (See Loading paper and other print media on page 8.)	
Machine does not print from Adobe Illustrator.	Try to reduce the print resolution. (See <i>Printing</i> for Windows [®] or <i>Printing and Faxing</i> for Macintosh [®] in the Software User's Guide on the CD-ROM.)	

Copying Difficulties

Difficulty	Suggestions
Vertical streaks appear on copies	If you see vertical streaks on copies, clean the scanner. (See <i>Cleaning the scanner</i> on page 71.)
Poor copy results when using the ADF (DCP-185C only)	Try using the scanner glass. (See <i>Using the scanner glass</i> on page 18)
Vertical black line appears in copies (DCP-185C only)	Black vertical lines on copies are typically caused by dirt or correction fluid on the glass strip. Clean the glass strip. (See <i>Cleaning the scanner</i> on page 71)
Fit to Page does not work properly.	Make sure your source document is not skewed. Reposition the document and try again.

Scanning Difficulties

Difficulty	Suggestions
TWAIN/WIA errors appear when starting to scan.	Make sure the Brother TWAIN/WIA driver is chosen as the primary source. In Presto!® PageManager® with OCR, click File , Select Source and choose the Brother TWAIN/WIA driver.
Poor scanning results when using the ADF. (DCP-185C only)	Try using the scanner glass. (See <i>Using the scanner glass</i> on page 18)
OCR does not work.	Try increasing the scanner resolution.

Software Difficulties

Difficulty	Suggestions	
Cannot install software or print	Run the Repair MFL-Pro Suite program on the CD-ROM. This program will repair and reinstall the software.	
'Device Busy'	Make sure the machine is not showing an error message on the LCD.	
Cannot print images from FaceFilter Studio.	To use FaceFilter Studio, you must install the FaceFilter Studio application from the CD-ROM supplied with your machine. To install FaceFilter Studio see the <i>Quick Setup Guide</i> .	
	Also, before you start FaceFilter Studio for the first time, you must make sure your Brother machine is turned on and connected to your computer. This will allow you to access all the functions of FaceFilter Studio.	

PhotoCapture Center™ Difficulties

Difficulty	Suggestions	
Removable Disk does not work	1 Have you installed the Windows® 2000 update? If not, do the following:	
correctly.	1) Unplug the USB cable.	
	2) Install the Windows [®] 2000 update using one of the following methods.	
	Install MFL-Pro Suite from the CD-ROM. (See the Quick Setup Guide.)	
	Download the latest service pack from the Microsoft Web site.	
	Wait about 1 minute after you restart the PC, and then connect the USB cable.	
	Take out the memory card or USB Flash memory drive and put it back in again.	
	3 If you have tried 'Eject' from within Windows [®] , take out the memory card or USB Flash memory drive before you continue.	
	4 If an error message appears when you try to eject the memory card or USB Flash memory drive, it means the card is being accessed. Wait a while and then try again.	
	5 If all of the above do not work, turn off your PC and machine, and then turn them on again. (You will have to unplug the power cord of the machine to turn it off.)	
Cannot access Removable Disk from Desktop icon.	Make sure that you have correctly inserted the memory card or USB Flash memory drive.	

Error and Maintenance messages

As with any sophisticated office product, errors may occur. If this happens, your machine identifies the error and shows an error message. The most common error and maintenance messages are shown below.

You can correct most errors and routine maintenance messages by yourself. If you need more help, the Brother Solutions Center offers latest FAQs and troubleshooting tips.

Visit us at http://solutions.brother.com.

Error Message	Cause	Action
B&W Print Only	One or more of the color ink cartridges is empty. While this message appears on the LCD, each operation works in the following way:	Replace the empty ink cartridges. (See Replacing the ink cartridges on page 68.)
	Printing If you click Greyscale in the Advanced tab of the printer driver you can use the machine as a monochrome printer for approximately four weeks depending on the number of pages you print.	
	■ Copying If the paper type is set to Plain Paper, Inkjet Paper or Transparency you can make copies in monochrome.	
	If the paper type is set to Other Glossy or Brother BP71, the machine will stop all print operations. If you unplug the machine, or take out the empty ink cartridge, you cannot use the machine until you change to a new ink cartridge. Replace the empty ink cartridges. (See Replacing the ink cartridges on page 68.)	
Cannot Detect	You installed a new ink too fast and machine didn't detect it.	Take out the new ink cartridge and reinstall it slowly until it clicks.
	If you are using non Brother Original Ink the machine may not detect the ink cartridge.	Replace the cartridge with a Brother Original Ink Cartridge. If the error remains, contact your Brother dealer.
	An ink cartridge is not installed correctly.	Take out the new ink cartridge and re-install it slowly until it clicks. (See <i>Replacing the ink cartridges</i> on page 68.)

Error Message	Cause	Action
Cannot Print	One or more of the ink cartridges	Replace the empty ink cartridges. (See
Replace XX Ink	are empty. The machine will stop all print operations.	Replacing the ink cartridges on page 68.)
Close Ink Cover	The ink cartridge cover is not completely closed.	Firmly close the ink cartridge cover until it clicks.
Cover is Open	The scanner cover is not closed completely.	Lift the scanner cover and then close it again.
Data Remaining	Print data is left in the machine's memory.	Press Stop/Exit . The machine will cancel the job and clear it from the memory. Try to print again.
Document Jam (DCP-185C only)	The document was not inserted or fed correctly, or the document	See Using the ADF (DCP-185C only) on page 17
(DCF-103C Offig)	scanned from the ADF was too long.	See Document jam (DCP-185C only) on page 65
High Temperature	The print head is too warm.	Allow the machine to cool down.
Hub is Unusable.	A Hub or USB Flash memory drive with a Hub has been connected to the USB direct interface.	A Hub or USB Flash memory drive with a Hub are not supported. Unplug the device from the USB direct interface.
Init Unable XX	The machine has a mechanical problem.	Open the scanner cover and look on the left, middle, and right hand side under the covers for
	OR	any foreign objects inside the machine. If the error message continues, disconnect the
	A foreign object such as a clip or ripped paper is in the machine.	machine from the power source for several minutes then reconnect it.
Ink Low Black	The indicated ink cartridge is	Order a new ink cartridge. You can continue
Ink Low Yellow	running out of ink.	printing until the LCD shows Cannot Print.
Ink Low Cyan		
Ink Low Magenta		
Low Temperature	The print head is too cold.	Allow the machine to warm up.
Media Error	The memory card is either corrupted, incorrectly formatted, or there is a problem with the memory card.	Put the card firmly into the slot again to make sure it is in the correct position. If the error remains, check the media drive (slot) of the machine by putting in another media card that you know is working.
Media is Full.	The memory card or USB flash memory drive you are using already contains 999 files.	Your machine can only save to your memory card or USB flash memory drive if it contains less than 999 files. Try deleting unused files to free some space and try again.
No Cartridge	An ink cartridge is not installed correctly.	Take out the new ink cartridge and re-install it slowly until it clicks. (See Replacing the ink cartridges on page 68.)
No File	The memory card or USB Flash memory drive in the media drive does not contain a .JPG file.	Put the correct memory card or USB Flash memory drive into the slot again.

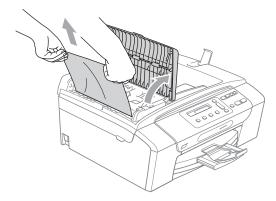
Error Message	Cause	Action
No Paper Fed	The machine is out of paper or paper is not properly loaded in the paper tray, or the Jam Clean Cover is not closed properly.	 Do one of the following: Refill the paper in the paper tray, and then press Mono Start or Color Start. Remove the paper and load it again and then press Mono Start or Color Start. (See Loading paper and other print media on page 8.)
	The paper is jammed in the machine.	See Printer jam or paper jam on page 66.
Out of Memory	The machine's memory is full.	When copy operation is in progress, press Stop/Exit and wait until the other operations in progress finish and then try again.
	The memory card or USB Flash memory drive you are using does not have enough free space to scan the documents.	Delete unused files from your memory card or USB Flash memory drive to make some free space and then try again.
Paper Jam	Paper is jammed in the machine.	Remove the jammed paper by following the steps in <i>Printer jam or paper jam</i> on page 66.
		See <i>Printer jam or paper jam</i> on page 66. Make sure the paper length guide is adjusted to the paper side.
Print Unable XX	The machine has a mechanical problem. —OR— A foreign object such as a clip or ripped paper is in the machine.	Open the scanner cover and look on the left, middle and right hand side under the covers for any foreign objects inside the machine. If the error message continues, disconnect the machine from the power source for several minutes then reconnect it.
Scan Unable XX	The machine has a mechanical problem. —OR— A foreign object such as a clip or ripped paper is in the machine.	Open the scanner cover and look on the left, middle and right hand side under the covers for any foreign objects inside the machine. If the error message continues, disconnect the machine from the power source for several minutes then reconnect it.
Unusable Device	A broken device has been connected to the USB direct interface.	Unplug the device from the USB direct interface, then press On/Off to turn the machine off then on again.
Unusable Device Please Disconnect USB Device.	A USB device or USB Flash memory drive that is not supported has been connected to the USB direct interface. For more information, visit us at http://solutions.brother.com .	Unplug the device from the USB direct interface.
Wrong Paper Size	Paper is not the correct size.	Make sure the machine's Paper Size setting matches the size of paper you are loding in the tray. Load the correct size of paper, and then press Mono Start or Color Start .

Document jam (DCP-185C only)

Documents can jam in the ADF unit if they are not inserted or fed properly, or if they are too long. Follow the steps below to clear a document jam.

Document is jammed in the top of the ADF unit

- 1 Take out any paper from the ADF that is not jammed.
- Open the ADF cover.
- 3 Pull the jammed document up and to the left.



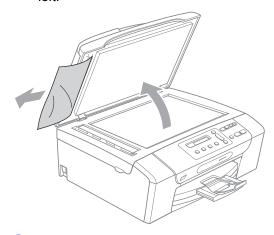
- 4 Close the ADF cover.
- 5 Press Stop/Exit.



To avoid future document jams close the ADF cover correctly by pressing it down gently in the middle.

Document is jammed inside the ADF unit

- 1 Take out any paper from the ADF that is not jammed.
- 2 Lift the document cover.
- 3 Pull the jammed document out to the left.

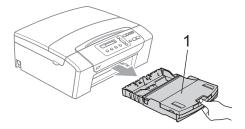


- 4 Close the document cover.
- 5 Press Stop/Exit.

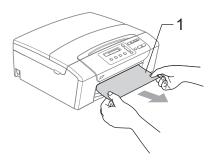
Printer jam or paper jam

Take out the jammed paper depending on where it is jammed in the machine. Open and close the scanner cover to clear the error.

1 Pull the paper tray (1) out of the machine.

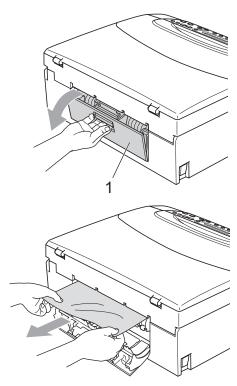


Pull out the jammed paper (1) and press Stop/Exit.



- 3 Reset the machine by lifting the scanner cover from the front of the machine and then close it.
 - If you cannot remove the jammed paper from the front of the machine, or the error message still appears on the LCD after you have removed the jammed paper, please go to the next step.

4 Open the Jam Clear Cover (1) at the back of the machine. Pull the jammed paper out of the machine.

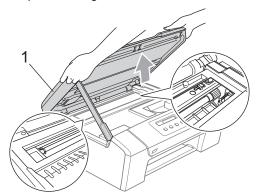


Close the Jam Clear Cover. Make sure the cover is closed correctly.



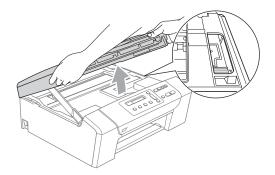
6 Using both hands, use the finger holds on both sides of the machine to lift the scanner cover (1) until it locks securely in the open position.

Make sure that there is no jammed paper left inside the machine under the plastic covers. Check both ends of the print carriage.



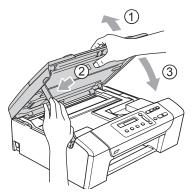


- If the paper is jammed under the print head, unplug the machine from the power source, and then move the print head to take out the paper.
- If the print head has stopped in the right corner as shown in the illustration, you cannot move the print head. Hold down Stop/Exit until the print head moves to the middle. Then unplug the machine from the power source, and take out the paper.



• If ink gets onto your skin, immediately wash with soap and plenty of water.

Lift the scanner cover to release the lock (1). Gently push the scanner cover support down (2) and close the scanner cover (3) using both hands.



8 Slowly push the paper tray completely into the machine.



Make sure you pull out the paper support until it clicks.



Routine maintenance

Replacing the ink cartridges

Your machine is equipped with an ink dot counter. The ink dot counter automatically monitors the level of ink in each of the 4 cartridges. When the machine detects an ink cartridge is running out of ink, the machine will tell you with a message on the LCD.



For example, when one of the ink cartridge is nearly empty, the LCD will display Ink Low (name of color).

You should purchase a replacement cartridge in preparation for when the machine indicates the color is completely empty.

When one of the ink cartridge is empty, the LCD will display Cannot Print or B&W Print Only.

You should only replace the actual ink cartridge when this message Cannot Print or B&W Print Only appears on the LCD.

The LCD will tell you which ink cartridge is low or needs replacing. Be sure to follow the LCD prompts to replace the ink cartridges in the correct order.

Even though the machine tells you that an ink cartridge is empty, there will be a small amount of ink left in the ink cartridge. It is necessary to keep some ink in the ink cartridge to prevent air from drying out and damaging the print head assembly.



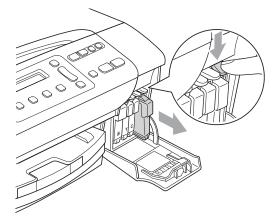
CAUTION

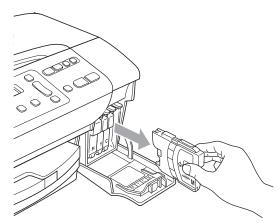
Brother multifunction machines are designed to work with ink of a particular specification and will work to a level of optimum performance and reliability when used with genuine Brother Branded ink cartridges. Brother cannot guarantee this optimum performance other brands of ink or ink cartridges, and reliability if ink or ink cartridges of other specifications are used. Brother does not therefore recommend the use of cartridges other than genuine Brother Branded cartridges or the refilling of empty cartridges with ink from other sources. If damage is caused to the print head or other parts of this machine as a result of using other brands of ink or ink cartridges, any repairs required as a result may not be covered by the warranty.



Open the ink cartridge cover. If one or more ink cartridges are empty, for example Black, the LCD shows Cannot Print and Replace BK Ink.

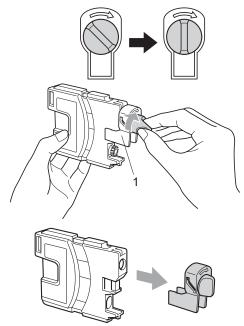
Press the lock release lever as shown to release the cartridge indicated on the LCD. Remove the cartridge from the machine.



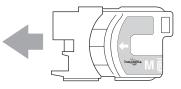


3 Open the new ink cartridge bag for the color shown on the LCD, and then take out the ink cartridge.

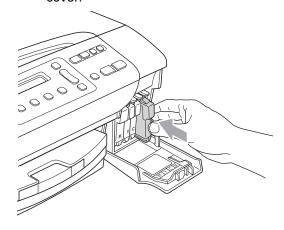
4 Turn the green knob on the protective yellow cap clockwise until it clicks as to release the seal vacuum, then remove the cap (1).



5 Each color has its own correct position. Insert the ink cartridge in the direction of the arrow on the label.



6 Gently push the ink cartridge until it clicks, and then close the ink cartridge cover.



7

The machine will automatically reset the ink dot counter.



- If you replaced an ink cartridge, for example Black, the LCD may ask you to verify that it was a brand new one
 (Did You Change Blck?). For each new cartridge you installed, press ▲ (Yes) to automatically reset the ink dot counter for that color. If the ink cartridge you installed is not a brand new one, be sure to press ▼ (No).
- If the LCD shows No Cartridge or Cannot Detect after you install the ink cartridge, check that the ink cartridges are installed correctly.



WARNING

If ink gets in your eyes, wash them out with water at once and call a doctor if you are concerned.



CAUTION

DO NOT take out ink cartridges if you do not need to replace them. If you do so, it may reduce the ink quantity and the machine will not know the quantity of ink left in the cartridge.

DO NOT touch the cartridge insertion slots. If you do so, the ink may stain your skin.

If ink gets on your skin or clothing immediately wash it off with soap or detergent.

If you mix the colors by installing an ink cartridge in the wrong position, clean the print head several times after correcting the cartridge installation.

Once you open an ink cartridge, install it in the machine and use it up within six months of installation. Use unopened ink cartridges by the expiration date written on the cartridge package.

DO NOT dismantle or tamper with the ink cartridge, this can cause the ink to leak out of the cartridge.

Cleaning the outside of the machine

Clean the outside of the machine as follows:



CAUTION

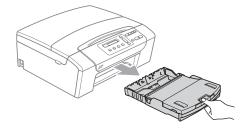
Use neutral detergents. Cleaning with volatile liquids such as thinner or benzine will damage the outside surface of the machine.

DO NOT use cleaning materials that contain ammonia.

DO NOT use isopropyl alcohol to remove dirt from the control panel. It may crack the panel.



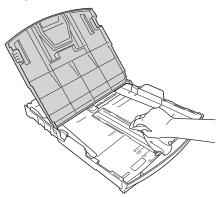
Pull the paper tray completely out of the machine.



Wipe the outside of the machine with a soft cloth to remove dust.



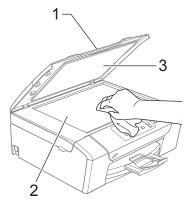
- 3 Lift the output paper tray cover and remove anything that is stuck inside the paper tray.
- Wipe the inside and outside of the paper tray with a soft cloth to remove dust.



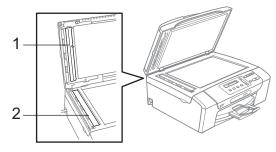
5 Close the output paper tray cover and slowly push the paper tray completely into the machine.

Cleaning the scanner

1 Lift the document cover (1). Clean the scanner glass (2) and white plastic (3) with a soft lint-free cloth moistened with a non-flammable glass cleaner.



(DCP-185C only)
In the ADF unit, clean the white bar (1) and the glass strip (2) with a soft lint-free cloth moistened with a non-flammable glass cleaner.



Note

In addition to cleaning the glass strip with a non-flammable glass cleaner, run your finger tip over the glass strip to see if you can feel anything on it. If you feel dirt or debris, clean the glass strip again concentrating on that area. You may need to repeat the cleaning process three or four times. To test, make a copy after each cleaning attempt.

Cleaning the machine printer platen

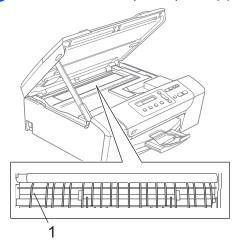


WARNING

Be sure to unplug the machine from the electrical socket before cleaning the printer platen (1).

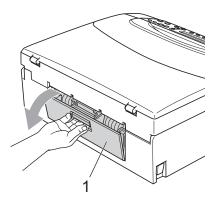
If ink is scattered on or around the printer platen, wipe it off with a soft, dry, lint-free cloth.

- 1 Lift the scanner cover until it locks securely into the open position.
- 2 Clean the machine printer platen (1).

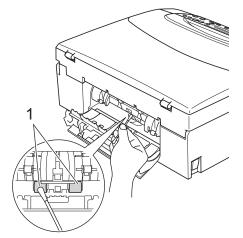


Cleaning the paper pick-up roller

- Pull the paper tray completely out of the machine.
- 2 Unplug the machine from the electrical socket and open the Jam Clear Cover (1) at the back of the machine.



3 Clean the Paper Pick-up Roller (1) with isopropyl alcohol on a cotton swab.



- 4 Close the Jam Clear Cover.

 Make sure the cover is closed correctly.
- Put the paper tray firmly back in the machine.
- 6 Re-connect the power cord.

B

Cleaning the print head

To maintain print quality, the machine will automatically clean the print head when needed. You can start the cleaning process manually if there is a print quality problem.

Clean the print head and ink cartridges if you get a horizontal line or blank text in the text or graphics on your printed pages. You can clean Black only, three colors at a time (Cyan/Yellow/Magenta), or all four colors at once.

Cleaning the print head consumes ink. Cleaning too often uses ink unnecessarily.

CAUTION

DO NOT touch the print head. Touching the print head may cause permanent damage and may void the print head's warranty.

- 1 Press Ink Management.
- Press A or ▼ to choose Cleaning. Press OK.
- 3 Press A or V to choose Black, Color or All.

Press OK.

The machine cleans the print head. When cleaning is finished, the machine will go back to standby mode automatically.



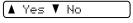
If you clean the print head at least five times and the print has not improved, try installing a new Genuine Brother Brand Replacement cartridge for each problem color. Try cleaning the print head again up to five more times. If the print has not improved call your Brother dealer.

Checking the print quality

If faded or streaked colors and text appear on your output, some of the nozzles may be clogged. You can check this by printing the Print Quality Check Sheet and looking at the nozzle check pattern.

- 1 Press Ink Management.
- Press ▲ or ▼ to choose Test Print.
 Press OK.
- 3 Press A or V to choose
 Print Quality.
 Press OK.
- 4 Press Color Start.
 The machine begins printing the Print Quality Check Sheet.
- 6 Check the quality of the four color blocks on the sheet.
- 6 The LCD asks you if the quality of the four colors are ok.

(Is Quality OK?



- 7 Do one of the following:
 - If all lines are clear and visible, press ▲ to choose Yes, and go to step ①.
 - If you can see missing short lines as shown below, press ▼ to choose No.

OK Poor

8 The LCD asks you if the print quality is OK for black and three colors.

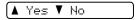
Black OK?

A Yes ▼ No

Press ▲ (Yes) or ▼ (No).

The LCD asks you if you want to start cleaning.

Start Cleaning?



Press ▲ (Yes).

The machine starts cleaning the print head.

After cleaning is finished, press Color Start.

The machine starts printing the Print Quality Check Sheet again and then return to step **5**.

11 Press Stop/Exit.

If you repeat this procedure at least five times and the print quality is still poor, replace the ink cartridge for the clogged color.

After replacing the ink cartridge, check the print quality. If the problem still exists, repeat the cleaning and test print procedures at least five times for the new ink cartridge. If ink is still missing, call your Brother dealer.

CAUTION

DO NOT touch the print head. Touching the print head may cause permanent damage and may void the print head's warranty.

Note



When a print head nozzle is clogged the printed sample looks like this.



After the print head nozzle is cleaned, the horizontal lines are gone.

Checking the print alignment

You may need to adjust the print alignment after transporting the machine, if your printed text becomes blurred or images become faded.

- 1 Press Ink Management.
- Press A or ▼ to choose Test Print. Press OK.
- 3 Press ▲ or ▼ to choose Alignment. Press OK.
- 4 Press Mono Start or Color Start.
 The machine starts printing the
 Alignment Check Sheet.

Is Alignment OK?



- 5 Check the 600 dpi and 1200 dpi test prints to see if number 5 most closely matches number 0.
 - If the number 5 samples of both the 600 dpi and 1200 dpi test prints are the best matches, press ▲ (Yes) to finish Alignment Check, and go to step 3.
 - If another test print number is a better match for either 600 dpi or 1200 dpi, press ▼ (No) to choose it.
- 6 For 600 dpi, press ▲ or ▼ to select the number of the test print that most closely matches the number 0 sample (1-8).

600dpi Adjust

Select Best #5

Press OK.

7 For 1200 dpi, press ▲ or ▼ to select the number of the test print that most closely matches the number 0 sample (1-8).

1200dpi Adjust

Select Best #5

Press OK.

8 Press Stop/Exit.

Checking the ink volume

You can check the ink that is left in the cartridge.

- 1 Press Ink Management.
- Press ▲ or ▼ to choose Ink Volume.

 Press OK.

 The LCD shows the ink volume.

BK:-**■■■■**□□+ **♦**

- 3 Press ▲ or ▼ to choose the color you want to check.
- 4 Press Stop/Exit.



You can check the ink volume from your computer. (See *Printing* for Windows[®] or *Printing and Faxing* for Macintosh[®] in the Software User's Guide on the CD-ROM.)

Machine Information

Checking the serial number

You can see the machine's serial number on the LCD.

- 1 Press Menu.
- Press ▲ or ▼ to choose
 4.Machine Info.
 Press OK.
- Press ▲ or ▼ to choose 1. Serial No. Press OK.

XXXXXXX

4 Press Stop/Exit.

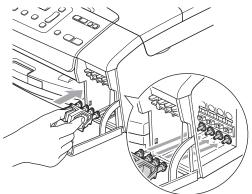
Packing and shipping the machine

When you transport the machine, use the packing materials that came with your machine. Follow the instructions below to properly pack your machine. Damage caused to your machine during transit is not covered by your warranty.

CAUTION

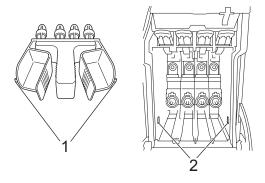
It is important to allow the machine to 'park' the print head after a print job. Listen carefully to the machine before unplugging it to make sure that all mechanical noise has stopped. Not allowing the machine to finish this parking process may lead to print problems and possible damage to the print head.

- Open the ink cartridge cover.
- 2 Press the lock release lever to release the ink cartridge and take out all the ink cartridges. (See *Replacing the ink cartridges* on page 68.)
- Install the light-green protective part and then close the ink cartridge cover.



CAUTION

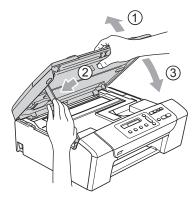
Make sure that the plastic tabs on both sides of the green protective part (1) have securely clicked into place (2).



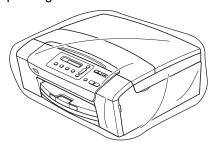
If you are not able to find the green protective part, DO NOT remove the ink cartridges before shipping. It is essential that the machine be shipped with either the green protective part or the ink cartridges in position. Shipping without them will cause damage to your machine and may void your warranty.

- 4 Unplug the machine from the electrical socket.
- Using both hands, use the plastic tabs on both sides of the machine to lift the scanner cover until it locks securely into the open position. Then unplug the interface cable from the machine, if it is connected.

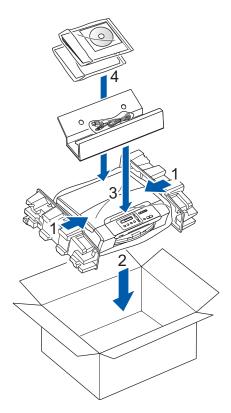
6 Lift the scanner cover (1) to release the lock. Gently push the scanner cover support down (2) and close the scanner cover (3).



Wrap the machine in the bag and put it in the original carton with the original packing material.



Pack the printed materials in the original carton as shown below. Do not pack the used ink cartridges in the carton.



9 Close the carton and tape it shut.

C

Menu and Features

On-screen programming

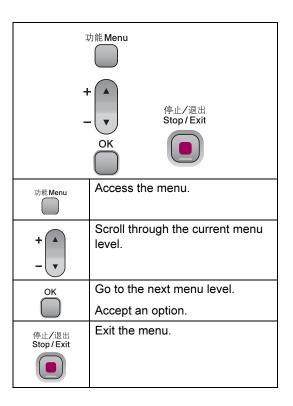
Your machine is designed to be easy to operate with LCD on-screen programming using the menu keys. User-friendly programming helps you take full advantage of all the menu selections your machine has to offer.

Since your programming is done on the LCD, we have created step-by-step on-screen instructions to help you program your machine. All you need to do is follow the instructions as they guide you through the menu selections and programming options.

Menu table

You can program your machine by using the menu table that begins on page 80. These pages list the menu selections and options.

Menu keys



To access the menu mode:

- 1 Press Menu.
- Choose an option. You can scroll more quickly through each menu level by pressing ▲ or ▼ for the direction you want.

1.Copy

2.PhotoCapture

3.Print Reports

4.Machine Info.

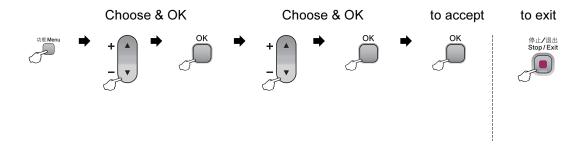
0.Initial Setup

- 3 Press **OK** when that option appears on the LCD.

 The LCD will then show the next menu level.
- Press ▲ or ▼ to scroll to your next menuselection.
- 5 Press **OK**.
 When you finish setting an option, the LCD shows Accepted.
- 6 Press Stop/Exit.

Menu Table

The menu table will help you understand the menu selections and options that are found in the machine's programs. The factory settings are shown in Bold with an asterisk.



Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
1.Copy	1.Paper Type	_	Plain Paper*	Sets the type of paper in	27
			Inkjet Paper	the paper tray.	
			Brother BP71		
			Other Glossy		
			Transparency		
	2.Paper Size	_	Letter	Sets the size of the paper	27
			Legal	in the paper tray.	
			A4*		
			A5		
			10x15cm		
	3.Quality	_	Best	Chooses the copy	23
			Normal*	resolution for your type of document.	
			Fast		
	4.Brightness	_	-□□□□■+	Adjusts the brightness for	26
			-□□□■□+	copies.	
			-□□■□□+*		
			+		
			-≣□□□□+		
	5.Contrast	_	-□□□■+	Adjusts the contrast for	26
			+	copies.	
			-□□■□□+*		
			-≣□□□□+		
	The factory settin	gs are shown in Bold	with an asterisk.	•	•

Print Quality	_	Normal Photo* Plain Paper	Selects the print quality. Selects the paper type.	36
2.Paper Type	_		Solects the naner type	
2.Paper Type	_	Plain Paper	Selects the paper type	
			Selects the paper type.	36
		Inkjet Paper		
		Brother BP71		
		Other Glossy*		
3.Paper Size	_	Letter	Selects the paper size.	36
		A4		
		10 x 15cm*		
		13 x 18cm		
l.Print Size	_	8 x 10cm	Selects the print size.	36
		9 x 13cm	(Appears when A4 or Letter is selected in the	
		10 x 15cm	Paper Size menu.)	
		13 x 18cm		
		15 x 20cm		
		Max. Size*		
1.	.Print Size	.Print Size —	.Paper Size — Letter A4 10 x 15cm* 13 x 18cm .Print Size — 8 x 10cm 9 x 13cm 10 x 15cm 13 x 18cm 15 x 20cm	Letter A4 10 x 15cm* 13 x 18cm Selects the paper size. 8 x 10cm 9 x 13cm 10 x 15cm 11 x 18cm 12 x 18cm 13 x 18cm 15 x 20cm Max. Size* Selects the print size. (Appears when A4 or Letter is selected in the Paper Size menu.)

Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
2.PhotoCapture	5.Color Enhance	Enhance:On	1.Brightness	Adjusts the brightness.	37
(Continued)		Enhance:Off*	-□□□□■+		
			-□□□■□+		
			-□□■□□+*		
			-□■□□□+		
			-≣□□□+		
			2.Contrast	Adjusts the contrast.	37
			-□□□□■+		
			-□□□■□+		
			-□□■□□+*		
			-□■□□□+		
			-≣□□□□+		
			3.White Balance	Adjusts the hue of the	37
			-□□□□■+	white areas.	
			-□□□■□+		
			-□□■□□+*		
			-□■□□□+		
			-≣□□□+		
			4.Sharpness	Enhances the detail of the	38
			-□□□□■+	image.	
			-□□□■□+		
			-□□■□□+*		
			-□■□□□+		
			-≣□□□□+		
			5.Color Density	Adjusts the total amount	38
			-□□□□■+	of color in the image.	
			-□□□■□+		
			-□□■□□+*		
			-□■□□□+		
			-■□□□+		
	6.Cropping	_	On*	Crops the image around	39
			Off	the margin to fit the paper size or print size. Turn this	
				feature off if you want to	
				print whole images or prevent unwanted	
				cropping.	
	7.Borderless	_	On*	Expands the printable	39
			Off	area to fit the edges of the paper.	
	The factory setting	l gs are shown in Bold	with an asterisk.	T T T	I

.Date Print		On Off* B/W 200x100 dpi B/W 200 dpi Color 150 dpi* Color 300 dpi	Prints the date on your photo. Selects the Scan resolution for your type of document.	39 40
.Scan to Media	1.Quality	B/W 200x100 dpi B/W 200 dpi Color 150 dpi*	Selects the Scan resolution for your type of	40
.Scan to Media	1.Quality	B/W 200 dpi Color 150 dpi* Color 300 dpi	resolution for your type of	40
		Color 150 dpi*		
		Color 300 dpi		
		_		
		Color 600 dpi		
	2.B/W File Type	TIFF*	Selects the default file	
		PDF	format for black and white scanning.	
	3.ColorFile Type	PDF*	Selects the default file	
		JPEG	format for color scanning.	
.Help List	_	_	You can print these lists	20
.User Settings	_	_	and reports.	
.Serial No.	_	_	Lets you check the serial number of your machine.	75
. t	Jser Settings Serial No.	3.ColorFile Type Help List — User Settings — Serial No. —	## PDF 3.ColorFile Type	PDF format for black and white scanning. 3.ColorFile Type PDF* Selects the default file format for color scanning. Help List — You can print these lists and reports. Serial No. — Lets you check the serial number of your machine.

Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
0.Initial Setup	1.Date&Time	_	_	Puts the date and time on your machine.	See Quick Setup Guide
	2.LCD Contrast	_	Light	Adjusts the contrast of the	19
			Dark*	LCD.	
	3.Sleep Mode	_	10 Mins	You can choose how long	19
			5 Mins*	the machine must be idle before it goes into sleep	
			3 Mins	mode.	
			2 Mins		
			1 Min		
			60 Mins		
			30 Mins		
	0.Local Language	_	English	Allows you to change the	19
			Chinese*	LCD language.	



D

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Specifications

General

Printer Type Inkjet

Print Method Black: Piezo with 94 × 1 nozzle

Color: Piezo with 94×3 nozzles

Memory Capacity 32 MB

LCD (Liquid Crystal Display) 10 Chinese Characters (20 Alphabetical characters) × 1 line

Power Source AC 220 to 240 V 50/60 Hz

Power Consumption DCP-145C

Off Mode: Average 0.5 W
Sleep Mode: Average 2.5 W
Standby: Average 3.5 W
Operating: Average 15 W

DCP-165C

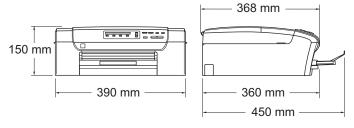
Off Mode: Average 0.5 W
Sleep Mode: Average 2.5 W
Standby: Average 3.5 W
Operating: Average 18 W

DCP-185C

Off Mode: Average 0.6 W
Sleep Mode: Average 2.5 W
Standby: Average 3.5 W
Operating: Average 23 W

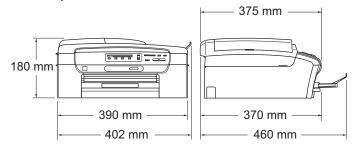
Dimensions

(DCP-145C ¹ and DCP-165C)



The DCP-145C only supports USB Flash memory drive.

(DCP-185C)



Weight DCP-145C and DCP-165C 7.1kg

DCP-185C 7.8 kg

Noise Operating: 50 dB or less ¹ **Temperature** Operating: 10 - 35° C

Best Print Quality: 20 - 33° C

Humidity Operating: 20 - 80% (without condensation)

Best Print Quality: 20 - 80% (without condensation)

ADF (automatic document Up to 15 pages

feeder) (DCP-185C only)

Recommended Environment for Best Results:

Temperature: 20° C - 30° C

Humidity: 50% - 70%

Paper: 80 g/m²

Paper Tray 100 Sheets 80 g/m²

¹ This depends on printing conditions.

D

Print media

Paper Input

Paper Tray

Paper type:

Plain paper, inkjet paper (coated paper), glossy paper ², transparencies ^{1 2} and envelopes

■ Paper size:

Letter, Legal, Executive, A4, A5, A6, JIS B5, envelopes (commercial No.10, DL, C5, Monarch, JE4), Photo 10 \times 15 cm, Photo 2L 13 \times 18 cm, Index card and Post card ³.

Width: 100mm - 215.9mm Length: 150mm - 355.6mm

For more details, see *Paper weight, thickness and capacity* on page 16.

■ Maximum paper tray capacity: Approx. 100 sheets of 80 g/m² plain paper

Paper Output

Up to 50 sheets of A4 plain paper (face up print delivery to the output paper tray) ²

Use only transparencies recommended for inkjet printing.

For glossy paper or transparencies, we recommend removing printed pages from the output paper tray immediately after they exit the machine to avoid smudging.

See Paper type and size for each operation on page 15.

Copy

Color/Monochrome Yes/Yes

Document Size (DCP-185C only) ADF Width: 148 mm to 215.9 mm

(DCP-185C only) ADF Length: 148 mm to 355.6 mm

Scanner Glass Width: Max. 215.9 mm

Scanner Glass Length: Max. 297 mm

Copy Speed (DCP-145C)

Monochrome: Up to 5 pages/minute (A4 paper) ¹

Color: Up to 5 pages/minute (A4 paper) 1

(DCP-165C and DCP-185C)

Monochrome: Up to 20 pages/minute (A4 paper) ¹

Color: Up to 18 pages/minute (A4 paper) ¹

Multiple Copies Stacks up to 99 pages

Sorts up to 99 pages (Monochrome only) (DCP-185C only)

Enlarge/Reduce 25% to 400% (in increments of 1%)

Resolution (Monochrome)

■ Scans up to 1200×1200 dpi

■ Prints up to 1200×1200 dpi

(Color)

■ Scans up to 600×1200 dpi

■ Prints up to 600×1200 dpi

Based on Brother standard pattern (Fast mode/Stack Copy). Copy speeds vary with the complexity of the document.

D

PhotoCapture Center™



The DCP-145C only supports USB Flash memory drives.

Compatible Media ¹ Memory Stick[®]

Memory Stick Pro™

Memory Stick Micro (M2) with adapter Memory Stick Duo™ with adapter

SD²

SDHC³

microSD with adapter
miniSD™ with adapter
xD-Picure Card™ ⁴

USB Flash memory drive 5

ResolutionUp to 1200×2400 dpiFile ExtensionDPOF, EXIF, DCF(Media Format)Photo Print: JPEG 6

(Image Format) Scan to Media: JPEG, PDF (Color)

TIFF, PDF (Monochrome)

Number of Files Up to 999 files in the memory card

(The folder inside memory cards or USB Flash memory drive

is also counted)

Folder File must be in the 4th folder level of the memory card or USB

Flash memory drive.

Borderless Letter, A4, Photo 10×15 cm, Photo 2L (13x18 cm) ⁷

- Memory cards, adapters and USB Flash memory drive are not included.
- 2 16MB to 2GB
- 3 4GB to 8GB
- 4 xD-Picture Card™ Conventional Card from 16MB to 512MB

xD-Picture Card™ Type M from 256MB to 2GB xD-Picture Card™ Type M⁺ 1GB and 2GB xD-Picture Card™ Type H from 256MB to 2GB

- ⁵ USB 2.0 standard
 - USB Mass Storage Class from 16MB to 8GB Support format: FAT12/FAT16/FAT32
- 6 Progressive JPEG format is not supported.
- See Paper type and size for each operation on page 15.

PictBridge

Compatibility Supports the Camera & Imaging Products Association

PictBridge standard CIPA DC-001.

Visit http://www.cipa.jp/pictbridge for more information.

Interface PictBridge (USB) Port

D

Scanner

Color/Monochrome Yes/Yes

TWAIN Compliant Yes (Windows® 2000 Professional/XP/XP Professional x64

Edition/Windows Vista®)

Mac OS® X 10.2.4 or greater ¹

WIA Compliant

Yes (Windows® XP ²/Windows Vista®)

Color Depth 36 bit color Processing (Input)

(Actual Input: 30 bit color/Actual Output: 24 bit color) ³

24 bit color Processing (Output)

Resolution Up to 19200×19200 dpi (interpolated) ³

Up to 1200 × 2400 dpi (optical) (Scanner Glass)

Up to 1200×600 dpi (optical) (ADF) (DCP-185C only)

Scanning Speed Monochrome: Up to 3.44 sec.

Color: Up to 4.83 sec.

(A4 size in 100×100 dpi)

Document Size (DCP-185C only) ADF Width: 148 mm to 215.9 mm

(DCP-185C only) ADF Length: 148 mm to 355.6 mm

Scanner Glass Width: Max. 215.9 mm Scanner Glass Length: Max. 297 mm

Scanning Width Up to 210 mm

Greyscale 256 levels

¹ For the latest driver updates, visit http://solutions.brother.com.

Windows[®] XP in this User's Guide includes Windows[®] XP Home Edition, Windows[®] XP Professional, and Windows[®] XP Professional x64 Edition.

Maximum 1200×1200 dpi scanning when using the WIA Driver for Windows[®] XP, and Windows Vista[®] (resolution up to 19200×19200 dpi can be selected by using the Brother scanner utility)

Printer

Printer Driver Windows® 2000 Professional/XP/XP Professional x64 Edition/

Windows Vista® driver supporting Brother Native Compression

mode

Mac OS® X 10.2.4 or greater 1: Brother Ink driver

Resolution Up to 1200×6000 dpi

 $1200 \times 2400 \text{ dpi}$ $1200 \times 1200 \text{ dpi}$ $600 \times 1200 \text{ dpi}$ $600 \times 600 \text{ dpi}$ $600 \times 300 \text{ dpi}$

450 × 150 dpi (Mono) 600 × 150 dpi (Color)

Print Speed (DCP-145C)

Monochrome: Up to 27 pages/minute ²

Color: Up to 22 pages/minute ² (DCP-165C and DCP-185C)

Monochrome: Up to 30 pages/minute ²

Color: Up to 25 pages/minute ²

Printing Width 204 mm (210 mm) ³ (A4 size)

Borderless Letter, A4, A6, Photo (10x15 cm), Index Card,

Photo 2L (13x18 cm), Post Card 4

For the latest driver updates, visit http://solutions.brother.com.

Based on Brother standard pattern.

A4 size in draft mode.

When you set the Borderless feature to On.

⁴ See Paper type and size for each operation on page 15.

Interfaces

USB 12 A USB 2.0 interface cable that is no longer than 2.0 m.

Your machine has a Full-speed USB 2.0 interface. This interface is compatible with Hi-Speed USB 2.0; however, the maximum data transfer rate will be 12 Mbits/s. The machine can also be connected to a computer that has a USB 1.1 interface.

² Third party USB ports are not supported for Macintosh[®].

Computer requirements

	SUPPORTED OPERATING SYSTEMS AND SOFTWARE FUNCTIONS							
Computer Platform & Operating System Version		Supported	PC Processor	Minimum	Recommended RAM	Hard Disk Space to install		
		PC Software Functions Interfac		Minimum Speed		RAM	For Drivers	For Applications
Windows [®] Operating	2000 Professional	Printing, Scanning,	USB	Intel [®] Pentium [®] II	64 MB	256 MB	110 MB	340 MB
System ¹	XP Home ² XP Professional ²	Removable Disk		or equivalent	128 MB		110 MB	340 MB
	Professional x64 Edition ²			64-bit (Intel [®] 64 or AMD64) supported CPU	256 MB	512 MB	110 MB	340 MB
	Windows Vista ^{® 2}			Intel [®] Pentium [®] 4 or equivalent	512 MB	1 GB	600 MB	530 MB
				64-bit (Intel [®] 64 or AMD64) supported CPU				
Macintosh [®] Operating	Mac OS [®] 10.2.4 -	Printing, Scanning,	USB ³	PowerPC G4/G5	128 MB	256 MB	80 MB	400 MB
System ⁴	10.4.3	Removable Disk		PowerPC G3 350MHz				
	Mac OS [®] 10.4.4 or	Printing, Scanning,	USB 3	PowerPC G4/G5	512 MB	1 GB		
	greater	Removable Disk		Intel [®] Core™ Processor				

Conditions:

- ¹ Microsoft[®] Internet Explorer 5.5 or greater.
- For WIA, 1200x1200 resolution. Brother Scanner Utility enables to enhance up to 19200 x 19200 dpi.
- ³ Third party USB ports are not supported.
- Presto!® PageManager® on the CD-ROM supports Mac OS® X 10.3.9 or higher.

For Mac OS® X 10.2.4-10.3.8 Presto!®

 $\mbox{PageManager}^{\circledR}$ is available as a download from the Brother Solutions Center.

For the latest driver updates, visit http://solutions.brother.com.

All trademarks, brand and product names are property of their respective companies.

Consumable items

Ink The machine uses individual Black, Yellow, Cyan and Magenta ink

cartridges that are separate from the print head assembly.

Service Life of Ink Cartridge The first time you install a set of ink cartridges the machine will use an amount of ink to fill the ink delivery tubes for high quality printouts. This process will only happen once. With all following ink

cartridges you can print the specified number of pages.

The cartridges provided with your machine have a lower yield than

standard cartridges (65%).

Replacement Consumables

<Black> LC990BK, <Cyan> LC990C, <Magenta>LC990M, <Yellow> LC990Y

Black - Approximately 450 pages 1

Yellow, Cyan and Magenta - Approximately 550 pages ¹

¹ Approx. cartridge yield is declared in accordance with ISO/IEC 24711.

For more information about the replacement consumables, visit us at http://www.brother.com/pageyield.

Replacement Ink Cartridge

Ink cartridge

Black (LC990BK)	Yellow (LC990Y)	Cyan (LC990C)	Magenta (LC990M)

For more information about the replacement consumables, visit us at http://www.brother.com/pageyield.

What is Innobella™?

Innobella[™] is a range of genuine consumables offered by Brother. The name "Innobella[™]" derives from the words "Innovation" and "Bella" (meaning "Beautiful" in Italian) and is a representation of the "innovative" technology providing you with "beautiful"and "long lasting" print results.



When you print photo images, Brother recommends Innobella™ glossy photo paper (BP71 series) for high quality. Brilliant prints are made easier with Innobella™ Ink and paper.

Glossary

This is a comprehensive list of features and terms that appear in Brother manuals. Availability of these features depends on the model you purchased.

ADF (automatic document feeder)

The document can be placed in the ADF and scanned one page at a time automatically.

Brightness

Changing the Brightness makes the whole image lighter or darker.

Contrast

Setting to compensate for dark or light documents, by making copies of dark documents lighter and light documents darker.

Color Enhancement

Adjusts the color in the image for better print quality by improving sharpness, white balance and color density.

Greyscale

The shades of grey available for copying and scanning.

Help list

A printout of the complete Menu table that you can use to program your machine when you do not have the User's Guide with you.

Innobella™

Innobella™ is a range of genuine consumables offered by brother. For best quality results Brother recommends Innobella™ Ink and Paper.

LCD (liquid crystal display)

The display screen on the machine that shows interactive messages during On-Screen Programming and shows the date and time when the machine is idle.

Menu mode

Programming mode for changing your machine's settings.

OCR (optical character recognition)

The bundled Presto!® PageManager® software application converts an image of text to text you can edit.

PhotoCapture Center™

Allows you to print digital photos from your digital camera at high resolution for photo quality printing.

PictBridge

Allows you to print photos directly from your digital camera at high resolution for photo quality printing.

Scan to Media

You can scan a monochrome or color document into a memory card or USB Flash memory drive. Monochrome images can be in TIFF or PDF file format and color images can be in PDF or JPEG file format.

Scanning

The process of sending an electronic image of a paper document into your computer.

Temporary settings

You can choose certain options for each copy without changing the default settings.

User Settings

A printed report that shows the current settings of the machine.

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