



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for BROTHER HL-4050CDN. You'll find the answers to all your questions on the BROTHER HL-4050CDN in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BROTHER HL-4050CDN
User guide BROTHER HL-4050CDN
Operating instructions BROTHER HL-4050CDN
Instructions for use BROTHER HL-4050CDN
Instruction manual BROTHER HL-4050CDN

brother

Brother Laser Printer
USER'S GUIDE

HL-4040CN
HL-4040CDN
HL-4050CDN
HL-4070CDW

For visually-impaired users
You can read this manual with Screen Reader 'text-to-speech' software.

You must set up the hardware and install the driver before you can use the printer.
Please use the Quick Setup Guide to set up the printer. You can find a printed copy in the box.
Please read this User's Guide thoroughly before you use the printer. Keep the CD-ROM in a convenient place so you can use it quickly if you need to.
Please visit us at <http://solutions.brother.com> where you can get product support, the latest driver updates and utilities, and answers to frequently asked questions (FAQs) and technical questions.
Note: Not all models are available in all countries.

Version C
USA



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<http://yourpdfguides.com/dref/2320066>

Manual abstract:

You can find a printed copy in the box. @@@@Note: Not all models are available in all countries. Version C USA Using this guide Symbols used in this guide We use the following icons throughout this User's Guide: Warnings tell you what to do to prevent possible personal injury. Electrical Hazard icons alert you to a possible electrical shock. Hot Surface icons warn you not to touch machine parts that are hot. Cautions specify procedures you must follow or avoid to prevent possible damage to the printer or other objects. Improper Setup icons alert you to devices and operations that are not compatible with the printer. Notes tell you how you should respond to a situation that may arise or give tips about how the operation works with other features. i Safety precautions To use the printer safely WARNING There are high voltage electrodes inside the printer. Before you clean the inside of the printer or replace parts, make sure that you have turned off the power switch and unplugged the printer from the AC power outlet.

DO NOT handle the plug with wet hands. Doing this might cause an electrical shock. The fuser unit becomes extremely hot during operation. Wait until it has cooled down sufficiently before replacing consumable items. DO NOT remove or damage the caution label located on or around the fuser.

ii DO NOT use a vacuum cleaner to clean up scattered toner. Doing this might cause the toner dust to ignite inside the vacuum cleaner, potentially starting a fire. Carefully clean the toner dust with a dry, lint-free cloth and dispose of it according to local regulations. DO NOT use flammable substances or any type of spray to clean the inside or outside of the machine. Doing this may cause a fire or electrical shock.

If the printer becomes hot, blows smoke, or generates an obscure odor, immediately turn off the power switch and unplug the printer from the AC power outlet. Call your Brother dealer or Brother Customer Service. If metal objects, water or other liquids get inside the printer, immediately turn off the power switch and unplug the printer from the AC power outlet. Call your Brother dealer or Brother Customer Service. This printer is heavy and weighs approximately 64.2 lb (29.1 kg). To prevent injuries when moving or lifting this printer, make sure to use at least two people. Be careful not to pinch your fingers when you set the printer back down. 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 printer during a lightning storm.

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Compilation and Publication Notice Under the supervision of Brother Industries Ltd., this manual has been compiled and published, covering the latest product's 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. © 2007 Brother Industries Ltd. Shipment of the Printer If for any reason you must ship your printer, carefully package the printer to avoid any damage during transit. We recommend that you save and use the original packaging. The printer should also be adequately insured with the carrier. iv Table

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.....200 D Index 201 viii 1 About this Printer 1 1 Carton components **WARNING** 1 This printer is heavy and weights roughly 29.1kg (64.2 lb). To prevent injuries when moving or lifting this printer, make sure to use at least two people.

When you unpack the printer, make sure that you have all of the following parts. Printer Quick Setup Guide CD-ROM AC power cord Insertion sheet and Plastic bag for repacking Waste toner box (pre-installed) Order No. WT-100CL Toner cartridges (Black, Cyan, Magenta and Yellow) Order No. TN-110C, TN-110M, TN-110Y, TN-110BK TN-115C, TN-115M, TN-115Y, TN-115BK Belt unit Drum unit (pre-installed) Order No. DR-110CL (pre-installed) Order No.

BU-100CL 1 About this Printer Interface cable The interface cable is not a standard accessory. Buy the appropriate cable for the interface you are going to use. USB cable Do not use a USB interface cable that is longer than 6 feet (2.0 meters). Do not connect the USB cable to a non-powered hub or a Macintosh® keyboard.

Make sure that you connect it to the USB connector of your computer. Third party USB ports are not supported for Macintosh®. Parallel cable (HL-4050CDN / HL-4070CDW only) Do not use a parallel interface cable that is longer than 6 feet (2.0 meters). Use a shielded interface cable that is IEEE 1284-compliant. Network cable Use a straight-through Category5 (or greater) twisted-pair cable for 10BASE-T or 100BASE-TX Fast Ethernet Network. 1 1 2 About this Printer Front view 1 2 3 4 5 7 8 1 1 6 9 1 Face-down output tray support flap (support flap) 2 Front cover release button 3 Control panel 1 4 USB direct interface 5 Front cover 6 Paper tray 7 Power switch 8 Face-down output tray 9 Multi-purpose tray (MP tray) 1 You can adjust the angle of the LCD display by tilting it up or down. 3 About this Printer Back view The printer illustration is based on HL-4070CDW. 6 5 1 4 1 1 2 3 1 Back cover 2 AC power connector 3 Parallel interface connector (HL-4050CDN / HL-4070CDW only) 4 USB interface connector 5 Network Activity LEDs (Light Emitting Diodes) 6 10BASE-T / 100BASE-TX port 4 About this Printer Positioning the printer Read the following before you use the printer. 1 1 Power supply Use the printer within the recommended power range.

Power source: USA and Canada: AC 110 to 120 V, 50/60 Hz Europe and Australia: AC 220 to 240 V, 50/60 Hz The power cord, including extensions, should be no longer than 5 meters (16.5 feet). Do not share the same power circuit with other high-powered appliances, such as an air conditioner, copier, shredder and so on. If you cannot avoid using the printer with these appliances, we recommend that you use a voltage transformer or a high-frequency noise filter. Use a voltage regulator if the power source is not stable. 1 Environment Put your printer on a flat, stable surface such as a desk that is free of vibration and shocks. Put the printer near an AC power outlet, so that it can be easily unplugged from the AC power outlet if there is an emergency. Only use the printer within the following ranges of temperature and humidity: Temperature: 10 °C to 32.5 °C (50 °F to 90.5 °F) Humidity: 20% to 80% (without condensation) Use the printer in a well-ventilated room.

DO NOT put the printer where the ventilation hole of the printer is blocked. Keep a gap of roughly 100 mm (4 in.) between the ventilation hole and the wall. DO NOT expose the printer to direct sunlight, excessive heat, moisture, or dust. DO NOT put the printer near devices that contain magnets or produce magnetic fields.

DO NOT expose the printer to open/naked flames or salty or corrosive gasses. DO NOT put objects on top of the printer. DO NOT put the printer near heaters, air conditioners, water, chemicals or refrigerators. Keep the printer horizontal when you carry it. To prevent injuries when moving or lifting this printer, make sure to use at least two people.

1 5 2 Printing Methods 2 About paper Type and size of paper The printer loads paper from the installed paper tray or the multi-purpose tray. The names for the paper trays in the printer driver and this guide are as follows: Paper tray Multi-purpose tray Optional lower tray unit (HL-4050CDN / HL-4070CDW only) Duplex unit for automatic duplex printing (HL-4040CDN / HL-4050CDN / HL-4070CDW only) Tray 1 MP Tray Tray 2 DX 2 2 2 When looking at this page on the CD-ROM, you can jump to the page for each printing method by clicking p in the table. Media type Tray 1 Tray 2 (HL-4050CDN/ HL-4070CDW only) Plain paper 75 g/m2 to 105 g/m2 (20 to 28 lb) MP Tray DX (HL-4040CDN/ HL-4050CDN/ HL-4070CDW only) Choose the media type from the printer driver Plain Paper p p p p p p g/m2 60 161 g/m2 to g/m2 p p Recycled Paper Bond Paper Recycled paper Bond paper Rough paper 60 to 163 g/m2 (16 to 43 lb) (16 to 43 lb) Thin paper 60 g/m2 to 75 g/m2(16 to 20 lb) Thin Paper p p p p Thick Paper or Thicker Paper Thick paper 105 g/m2 to 163 g/m2(28 to 43 lb) p Labels Envelopes p A4 or Letter Label Envelopes p Env.



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Thin Env. Thick 6 Printing Methods Tray 1 Tray 2 (HL-4050CDN/HL-4070CDW only) MP Tray DX (HL-4040CDN/HL-4050CDN/HL-4070CDW only) 2 Paper size A4, Letter, Legal, B5 (ISO), Executive, A5, A6, B6 (ISO), Folio, Post Card A4, Letter, Legal, B5 (ISO), Executive, A5, B6 (ISO), Folio Width: 69.9 to 215.9 mm (2.75 to 8.5 in.) Length: 116 to 406.

4 mm (4.57 to 16 in.) Letter, Legal, Folio Number of sheets (80 g/m2 / 20 lb) 250 sheets 500 sheets 50 sheets Recommended paper Europe Plain paper Xerox Premier 80 g/m2 Xerox Business 80 g/m2 Recycled paper Labels Envelope Xerox Recycled Supreme 80 g/m2 Avery laser label L7163 Antalis River series (DL) USA Xerox 4200DP 20 lb Hammermill Laser Print (24 lb=90g/m2) N/A Avery laser labels white #5160 Columbian #138 (COM10) 2 Before you buy a lot of paper, test a small quantity to make sure that the paper is suitable. Use paper that is made for plain-paper copying. Use paper that is 75 to 90 g/m2 (20 to 24 lb). Use neutral paper. Do not use acidic or alkaline paper. Use long-grain paper. Use paper with a moisture content of approximately 5%. This printer can use recycled paper that meets DIN 19309 specifications.

CAUTION DO NOT use ink jet paper because it may cause a paper jam or damage your printer. Note If you use paper that is not recommended, a paper jam or misfeed may occur in the printer. (To help you choose which paper to use with this printer, see Important information for choosing your paper on page 177.) 7 Printing Methods Types of envelopes Most envelopes will be suitable for your printer. However, some envelopes may have feed and print quality problems due to the way they have been made.

A suitable envelope should have edges with straight, wellcreased folds and the leading edge should not be thicker than two pieces of paper. The envelope should lie flat and not be of baggy or flimsy construction. You should buy quality envelopes from a supplier who understands that you will be using the envelopes in a laser printer. Before you print a lot of envelopes, test one to make sure that the print results are what you want. Brother does not recommend a particular envelope because envelope manufacturers may change the envelope specifications.

You are responsible for the quality and performance of the envelopes you use. Do not use damaged, curled, wrinkled, irregularly shaped, extremely shiny or textured envelopes. Do not use envelopes with clasps, snaps, tie strings, self-adhesive components, windows, holes, cutouts or perforations. Do not use envelopes that are of a baggy construction, not sharply creased, embossed (have raised writing on them) or pre-printed on the inside. Do not use envelopes that were previously printed by a laser printer. Do not use envelopes that cannot be arranged when put in a pile. Do not use envelopes that are made of paper that weighs more than the paper weight specifications for the printer. 2 2 Do not use envelopes that have been badly made, with edges that are not straight or consistently square. If you use any of the types of envelopes listed above, they may damage your printer. This damage is not covered under any Brother warranty or service agreement.

Note · Do not put different types of paper in the paper tray at the same time because it may cause paper jams or misfeeds. · Do not print envelopes using duplex printing. · You must choose the same paper size from your application as the paper in the tray. 8 Printing Methods Unprintable area The area of the paper that cannot be printed on is shown in the table below: Portrait 1 2 Landscape 1 2 2 2 4 3 3 4 Windows® Printer Driver Macintosh® printer driver 1 2 3

4 4.23 mm (0.16 in.) 4.23 mm (0.16 in.) 4.23 mm (0.16 in.) 4.23 mm (0.16 in.)

) BRScript Driver for Windows® and Macintosh® (HL-4050CDN/HL-4070CDW only) 4.32 mm (0.17 in.) 4.32 mm (0.17 in.)

17 in.) 4.32 mm (0.17 in.) 4.32 mm (0.17 in.) 9 Printing Methods Printing methods Printing on plain paper Printing on plain paper from Tray 1, 2 (For the recommended paper to use, see About paper on page 6.) 2 2 2 a Choose the following from the printer driver: Paper Size ..

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(3) and any other settings. Windows® printer driver 1 2 3 10 Printing Methods BR-Script printer driver for Windows® (HL-4050CDN / HL-4070CDW only) Paper Size ...

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.. (3) 2 1 3 2 Note To use the BR-Script printer driver you must install the driver using the Custom Install from the CD-ROM. Macintosh® printer driver 1 2 3

11 Printing Methods b Pull the paper tray completely out of the printer. 2 c While pressing the green paper-guide release lever, slide the paper guides to fit the paper size. Make sure that the guides are firmly in the slots. d Put paper in the tray, and make sure that the paper is below the maximum paper mark (b). The side to be printed on must be face down. 12 Printing Methods e f Put the paper tray firmly back in the printer. Make sure that it is completely inserted into the printer.

Lift up the support flap to prevent paper from sliding off the face-down output tray, or remove each page as soon as it comes out of the printer. 2 g Send the print data to the printer. 13 Printing Methods Printing on plain paper or bond paper from the MP tray (For the recommended paper to use, see About paper

on page 6.) 2 a Choose the following from the printer driver: Paper Size

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.. (1) Media Type ...

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..... (3) 2 1 2 3 b Open the MP tray and lower it gently. c Pull out the MP tray support and unfold the flap (1).

1 15 Printing Methods d Lift up the support flap to prevent paper from sliding off the face-down output tray, or remove each page as soon as it comes out of the printer. 2 e Put paper in the MP tray. Make sure that the paper stays under the maximum paper mark (1). The side to be printed on must be face up with the leading edge (top of the paper) in first. 1 f While pressing the paper-guide release lever, slide the paper guide to fit the paper size. g Send the print data to the printer. 16 Printing Methods Printing on thick paper, labels and envelopes (For the recommended paper to use, see About paper on page 6 and Types of envelopes on page 8.) 2 a Choose the following from the printer driver: Paper Size ...

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· When you use Envelope #10, choose Com-10 for the Paper Size. · For other envelopes which are not listed in the printer driver, such as Envelope #9 or Envelope C6, choose User Defined..

· (For more information on envelope sizes, see Paper size on page 179.) Macintosh® printer driver Paper Size

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..... (1) Media Type

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... (2) Paper Source ..

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..... (3) 2 1 2 3 Note For other envelopes which are not listed in the printer driver, such as Envelope #9 or Envelope C6, choose Custom Page Sizes. (For more information on envelope sizes, see Paper size on page 179.) b Open the MP tray and lower it gently.

18 Printing Methods c Pull out the MP tray support and unfold the flap (1). 2 1 d Lift up the support flap to prevent paper from sliding off the face-down output tray, or remove each page as soon as it comes out of the printer. e Put paper in the MP tray. Make sure that the paper stays under the maximum paper mark (1). 1 Note · Do not put more than 3 envelopes in the MP tray.

· Envelope joints that are sealed by the manufacturer should be secure. · The side to be printed on must be face up. · All sides of the envelope should be properly folded without wrinkles or creases. 19 Printing Methods f While pressing the paper-guide release lever, slide the paper guide to fit the paper size. 2 g Send the print data to the printer.

Note · Remove each sheet or envelope at once after printing. Stacking the sheets or envelopes may cause the paper to jam or curl. · If envelopes get smudged during printing set the Media Type to Thick Paper or Thicker Paper to increase the fixing temperature. · If the envelope is creased after they are printed, see Improving the print quality on page 160. · (For Windows® users) If DL size double flap envelopes are creased after printing, choose DL Long Edge in Paper Size, from the Basic tab. Put a new DL size double-flap envelope in the MP tray with the longest edge of the envelope in first, then print again. · When you put paper in the MP tray, remember the following: · Put the leading edge (top of the paper) in first and push it gently into the tray. · Make sure that the paper is straight and in the proper position in the MP tray. If it is not, the paper may not be fed properly, resulting in a skewed printout or a paper jam. 20 Printing Methods Duplex printing The supplied printer drivers for Windows® 2000/XP/XP Professional x64 Edition, Windows Vista™, Windows Server® 2003/Windows Server® 2003 x64 Edition and Mac OS® X 10.

2.4 or greater all enable duplex printing. For more information about how to choose the settings, see the Help text in the printer driver. 2 2 Guidelines for printing on both sides of the paper If the paper is thin, it may wrinkle. If paper is curled, straighten it and then put it back in the paper tray or the MP tray. If the paper is not feeding properly, it may be curled. Remove the paper and straighten it. When you use the manual duplex function, it is possible that there may be paper jams or poor print quality. (If there is a paper jam, see Paper jams and how to clear them on page 148. If you have a print quality problem, see Improving the print quality on page 160.

) Note · The screens in this section are from Windows® XP. The screens on your computer may vary depending on your operating system. · Use Letter, Legal or Folio size paper when you use the automatic duplex printing function. · Make sure that the back cover is closed. · Make sure that the paper tray is completely inserted into the printer.

· If paper is curled, straighten it and then put it back in the paper tray. · You should use plain paper, recycled paper or thin paper. Do not use bond paper. 2 Manual duplex printing The BR-Script printer driver (PostScript® 3™ emulation) does not support manual duplex printing. If you are using the Macintosh® Printer Driver, see Duplex Printing on page 57.

2 Manual duplex printing from the paper tray 2 a b In the printer driver choose the Advanced tab, click the Duplex icon, and then choose the Manual Duplex printing mode, and from the Basic tab choose the Paper Source to be Tray1. Send the data to the printer. The printer will automatically print all the even-numbered pages on one side of the paper first. 21 Printing Methods c Remove the printed even-numbered pages from the output tray and put them back in the paper tray with the side to be printed on (blank side) face down. Follow the instructions on the computer screen. 2 d The printer will now automatically print all the odd-numbered pages on the other side of the paper. Note · If you choose the Paper Source to be Auto Select, put the printed even-numbered pages in the MP tray. · When you put paper in the paper tray, first empty the tray. Next, put the printed pages in the tray, with the printed side face up. (Do not add the printed pages to the top of a stack of unprinted paper.

) Manual duplex printing from the MP tray 2 Note Before putting the sheets back in the MP tray, you will have to straighten them, or you may get paper jams. a b In the printer driver choose the Advanced tab, click the Duplex icon, then choose the Manual Duplex printing mode, and then from the Basic tab choose the Paper Source to be MP Tray. Put the paper in the MP tray with the side to be printed on first facing up. Follow the instructions on the computer screen. Repeat this step until you have printed all the even-numbered pages. 22 Printing Methods c Remove the printed even-numbered pages from the output tray and then, in the same order, put them back into the MP tray. Put the paper with the side to be printed on (the blank side) face up. Follow the instructions on the computer screen. 2 d The printer will now automatically print all the odd-numbered pages on the other side of the paper. 2 Paper orientation for manual duplex printing The printer prints the second page first.

If you print 10 pages on 5 sheets of paper, it will print page 2 and then page 1 on the first sheet of paper. It will print page 4 and then page 3 on the second sheet of paper. It will print page 6 and then page 5 on the third sheet of paper, and so on. When doing manual duplex printing, the paper must be put in the paper tray in the following way: For the paper tray: · Put the side to be printed on face down with the leading edge (top) of the paper at the front of the tray. ·

To print on the second side, put the paper face up, with the leading edge (top) of the paper at the front of the tray.

· If letterhead paper is used, put the paper in the tray with the heading face up at the front of the tray. · To print on the second side, put the heading face down at the front of the tray. For the multi-purpose tray (MP tray): · Put the side to be printed on face up with the leading edge (top) of the paper in first.



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· To print on the second side, put the paper face down, with the leading edge (top) of the paper in first. · If letterhead paper is used, put it in with the heading face down and in first.

· To print on the second side, put the heading face up and in first. 23 Printing Methods Automatic duplex printing (HL-4040CDN/HL-4050CDN/HL-4070CDW only) If you are using the Macintosh® Printer Driver, see Duplex Printing on page 57. 2 a b Put paper in the paper tray or MP tray. For the Windows® printer driver 1 2 3 4 5 Open the Properties dialog box in the printer driver. From the General tab, click the Printing Preferences icon. From the Advanced tab, click the Duplex icon. Make sure that Use Duplex Unit has been chosen. Click OK. The printer will print on both sides of the paper automatically. For the BR-Script printer driver 1 2 3 Open the Properties dialog box in the printer driver.

From the General tab, click the Printing Preferences icon. From the Layout tab, choose Orientation, Print on Both Sides (Duplex) and Page Order. 24 Printing Methods 4 Click OK. The printer will print on both sides of the paper automatically. 2 Booklet printing (for Windows® printer driver) 2 a b c d e Put paper in the paper tray or MP tray. Open the Properties dialog box in the printer driver. From the General tab, choose the Printing Preferences icon. From the Advanced tab, click the Duplex icon, then choose Duplex and Use Duplex Unit (HL-4040CDN / HL-4050CDN / HL-4070CDW only) or Manual Duplex, and then choose Booklet Printing. Click OK. 25 Printing Methods Printing photos from a digital camera 2 2 Your Brother printer supports the PictBridge standard, allowing you to connect to and print photos directly from any PictBridge compatible digital camera.

Even if your camera is not in PictBridge mode or does not support PictBridge, you can still print photos from a digital camera in Mass storage mode. See Connecting a camera as a storage device on page 28. PictBridge requirements The machine and the digital camera must be connected using a suitable USB cable. The image file must be taken with the digital camera you want to connect to the printer. 2 Setting your digital camera Make sure your camera is in PictBridge mode.

The following PictBridge settings may be available from the LCD of your PictBridge compatible camera. Depending on your camera some of these setting may not be available. Copies Qualities Paper Size Date Print File Name Print Layout You can also set the following PictBridge settings by using the control panel. Menu Submenu Options Letter*/A4 / B5 / A5 / B6 / A6 Portrait* / Landscape Off* / On Off* / On Normal* / Fine Auto* / MP Only / Tray1 Only / Tray2 Only Off* / On (Long Bind) / On (Short Bind) See Paper Tray on page 79 See PictBridge on page 87 2 PictBridge Paper Size 1 Orientation Date & Time 1 File Name 1 Print Quality 1 Paper Tray Tray Use Duplex (HL-4040CDN/ HL-4050CDN/ HL-4070CDW only) 1 These menu selections are also set by your camera. Camera settings are prioritized as long as your camera is not set to use the Printer Settings (Default settings).

26 Printing Methods Note 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. 2 Printing images 2 a Make sure that your camera is turned off. Connect your camera to the USB direct interface (1) on the front of the printer using a suitable USB cable. 1 b Turn on the camera. When the printer has recognized the camera, the LCD shows the following message: Camera Connected c Set your camera to print an image. Set the number of copies if you are asked. When the printer starts printing a photo, the LCD will show Printing. Note Please refer to the documentation supplied with your camera for detailed operations how to print using PictBridge. CAUTION DO NOT remove the digital camera from the USB direct interface until the printer has finished printing.

27 Printing Methods Connecting a camera as a storage device Even if your camera is not in PictBridge mode, or does not support PictBridge, you can connect your camera as a normal storage device. This enables you to print photos from your camera. Follow the steps for Printing data directly from the USB flash memory drive on page 31. (If you would like to print photos in PictBridge mode, see Setting your digital camera on page 26.) Note The name of the storage mode and operation differs among digital cameras. Please refer to the documentation supplied with your camera for detailed information, such as how to switch from PictBridge mode to mass storage mode. 2 2 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. The following DPOF settings are available: 1 in 1 printing Copies 2 28 Printing Methods Printing data from a USB flash memory drive with direct print 2 With the Direct Print feature, you do not need a computer to print data.

You can print by just plugging your USB flash memory drive into the printer's USB direct interface. Note There might be some USB flash memory drives that will not work with the printer. 2 Supported file formats Direct print supports the following file formats: PDF version 1.6 1 JPEG Exif+JPEG PRN (created by HL-4040CN, HL-4040CDN, HL-4050CDN or HL-4070CDW printer driver) TIFF (scanned by all MFC or DCP Brother models) PostScript® 3TM (created by the HL-4050CDN or HL-4070CDW BRScript3 printer driver) 1 2 The data including JBIG2 image file, JPEG2000 image file and layered files are not supported. Creating a PRN or PostScript® 3TM (HL-4050CDN / HL-4070CDW only) file for direct printing Note The screens in this section may vary depending on your application and operating system.

2 a From the menu bar of an application, click File, then Print. 29 Printing Methods b Choose HL-4040CN, HL-4040CDN, HL-4050CDN or HL-4070CDW (1) and check the Print to file box (2). Click Print. 1 2 2 c Choose the folder you want to save the file to and enter the file name if you are prompted to. If you are prompted for a file name only, you can also specify the folder you want to save the file in by entering the directory name. For example: C:\Temp\FileName.prn If you have a USB flash memory drive connected to your computer, you can save the file directly to the USB flash memory drive. 30 Printing Methods Printing data directly from the USB flash memory drive 2 a Connect your USB flash memory drive to the USB Direct Interface (1) on the front of the printer.



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3 1 2 3 4 a b c d e Choose the Paper Size, Multiple Page, Orientation, Copies and Media Type (1). (HL-4040CDN / HL-4050CDN / HL-4070CDW only)
Choose the Duplex/Booklet setting (2).

Choose the Color/Mono setting (3). Choose the Paper Source (4). Click OK to apply your chosen settings. To return to the default settings, click Default, then OK. 37 Driver and Software Paper Size From the drop-down box choose the Paper Size you are using. 3 Multiple Page The Multiple Page selection can reduce the image size of a page allowing multiple pages to be printed on one sheet of paper or enlarging the image size for printing one page on multiple sheets of paper. 3 3 Page Order When N in 1 option is selected, the page order can be selected from the drop-down list. 3 Border Line When printing multiple pages on one sheet with the Multiple Page feature you can choose to have a solid border, dash border or no border around each page on the sheet. 3 Orientation Orientation selects the position of how your document will be printed (Portrait or Landscape). 3 Copies The copies selection sets the number of copies that will be printed.

3 Collate With the Collate check box selected, one complete copy of your document will be printed and then repeated for the number of copies you selected. If the Collate check box is not selected, then each page will be printed for all the copies selected before the next page of the document is printed. 3 38 Driver and Software Media Type You can use the following types of media in your printer. For the best print quality, select the type of media that you wish to use. Plain Paper Env. Thick Thin Paper Env. Thin Thick Paper Recycled Paper Thicker Paper Postcard Bond Paper Label Envelopes 3 3 Note · When using ordinary plain paper (19 to 25 lb) choose Plain Paper. When using heavier weight paper, envelopes or rough paper choose Thick Paper or Thicker Paper. For bond paper, choose Bond Paper. · When you use envelopes, choose Envelopes.

If the toner is not fixed to the envelope correctly when Envelopes has been selected, choose Env. Thick. If the envelope is crumpled when Envelopes has been selected, choose Env. Thin. Duplex / Booklet (HL-4040CDN / HL-4050CDN / HL-4070CDW only) When you want to print a booklet or do duplex printing, use this function, and then from the Advanced tab, choose a Duplex Type (See Duplex printing on page 21).

3 Color/Mono You can change the Color/Mono settings as follows: Color When your document contains color and you want to print it in color, select this mode. Mono Select this mode if your document has only black and grayscale text and/or objects. If your document contains color, selecting Mono mode prints your document in 256 levels of gray. Auto The printer checks the content of your documents for color. If color is detected, it prints in color. If no color content is detected, it prints in monochrome. Note If the Cyan, Magenta or Yellow toner runs out, choosing Mono will allow you to keep printing as long as the Black toner does not run out. 3 Paper Source You can choose Auto Select, Tray1, MP Tray or Manual and specify separate trays for printing the first page and for printing from the second page onwards. 3 39 Driver and Software Advanced tab 1 2 3 4 5 3 3 Change the tab settings by clicking one of the following icons: Print Quality (1) Duplex (2) Watermark (3) Page Setting (4) Device Options (5) Print Quality Print Quality You can choose the following print quality settings. · Normal 600×600 dpi. Recommended for ordinary printing. Good print quality with reasonable print speeds. · Fine 2400 dpi class. The finest print mode. Use this mode to print precise images such as photographs.

Since the print data is much larger than in normal mode, processing time / data transfer time and printing time will be longer. Note The print speed will change depending on what print quality setting you choose. Higher print quality takes longer to print, while lower print quality takes less time to print. 3 40 Driver and Software Color Mode The following options are available in Color Matching mode: · Normal This is the Default color mode. · Vivid The color of all elements are adjusted to become a more vivid color. · Auto The printer driver automatically selects the Color Mode type. · None Improve Gray Color You can improve the image quality of a shaded area. Enhance Black Printing If a black graphic cannot be printed correctly, choose this setting. Import You can adjust the print configuration of a particular image by clicking setting. When you have finished adjusting the image parameters, such as brightness and contrast, you can import those settings as a print configuration file.

Use the Export function to create a print configuration file from the current settings. Export You can adjust the print configuration of a particular image by clicking setting. When you have finished adjusting the image parameters, such as brightness and contrast, you can export those settings as a print configuration file. Use the Import function to load a previously exported configuration file. 3 Duplex Printing Use Duplex Unit (HL-4040CDN / HL-4050CDN / HL-4070CDW only) 3 Check the Duplex box and then choose Use Duplex Unit.

In this mode, the printer prints on both sides of the paper automatically. There are six types of duplex binding directions available for each orientation. Manual Duplex Check the Duplex box and choose Manual Duplex. In this mode, the printer prints all the even numbered pages first. Then the printer driver will stop and show the instructions required to re-install the paper.

When you click OK the odd numbered pages will be printed. There are six types of manual duplex binding directions available for each orientation. Booklet Printing When you want to print a booklet, use this function. To make the Booklet, fold the printed pages down the middle. Binding Offset If you check the Binding Offset option, you can also specify the offset for binding in inches or millimeters. 41 Driver and Software Watermark You can put a logo or text into your documents as a watermark. 3 You can choose one of the preset watermarks, or you can use a bitmap file or text file that you have created. When you use a bitmap file as a watermark, you can change the size of the watermark and put it anywhere you like on the page. When you use text as a watermark, you can change the font, color and angle settings. 3 3 Page Setting You can change the print image scaling and choose Mirror/Reverse print options.

Device Options 3 You can set the following in Printer Function: Job Spooling Toner Save Mode Quick Print Setup Sleep Time Administrator Print Setting Header-Footer Print Color Calibration 42 Driver and Software Job Spooling The printer keeps the print job sent to it in memory. You can reprint a document without sending the data again from your computer (except for secure printing): · Last Job Reprint: Reprints the last job · Secure Print: Secure documents are documents that are password protected when they are sent to the machine.



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Only the people who know the password will be able to print them. Since the documents are secured at the machine, you must enter the password using the control panel of the machine to print them. If you want to create a secure print job, check the Use Reprint box and then check the Secure Print box. Enter a password in the password box and click OK. (For more information about the Reprint function, see Reprinting documents on page 74.) Note If you want to prevent other people from printing your data using the reprint function, uncheck the Use Reprint check box in the job spooling settings. Toner Save Mode You can conserve toner using this feature. When you set Toner Save Mode to On, print appears lighter.

The default setting is Off. Note We do not recommend Toner Save Mode for printing photo or gray scale images. Quick Print Setup This feature allows you to quickly choose driver settings by clicking a tasktray icon. You can turn the quick print setting on or off. By placing a check in the selection boxes for the following functions you can choose which will be available in the quick print setting.

· Multiple Page · Manual Duplex (HL-4040CN only) · Duplex (HL-4040CDN / HL-4050CDN / HL-4070CDW only) · Toner Save Mode · Paper Source · Media Type · Color/Mono Sleep Time When the printer does not receive data for a certain period of time, it enters sleep mode. In sleep mode, the printer acts as though it were turned off. When you choose Printer Default the timeout setting will be 5 minutes. Intelligent Sleep Mode automatically adjusts to the most suitable timeout setting depending on the frequency of your printer use. While the printer is in sleep mode, all the LEDs are off, but the printer can still receive data.

Receiving a print file or document or pressing Go will automatically wake up the printer to start printing. 43 3 Driver and Software Administrator Administrators have the authority to limit access to functions such as scaling and watermark. · Password Enter the password into this box. · Set Password Click here to change the password. · Copies Lock Lock the copy pages selection to prevent multiple copy printing. · Multiple Page & Scaling Lock Lock the scaling setting and multiple page setting. · Color/Mono Lock Lock the Color/Mono settings as Mono to prevent color printing. · Watermark Lock Lock the current settings of the Watermark option to prevent changes being made. Print Setting · Improve pattern printing Select this option if printed fills and patterns are different from the patterns and fills you see on your computer. · Improve Thin Line You can improve the image quality of thin lines.

Header-Footer Print When this feature is enabled, it will print the date and time on your document from your computer's system clock and the PC login user name or the text you entered. By clicking Setting, you can customize the information. · ID Print If you select Login User Name, your PC login user name will print. If you select Custom and enter the text in the Custom edit box, the text you entered will print. Color Calibration The output density of each color may vary depending on the temperature and humidity of the environment the machine is in. This setting helps you to improve color density by letting the printer driver use the color calibration data stored in your printer. · Get device data If you click this button, the printer driver will attempt to get the color calibration data from your printer. · Use calibration data If the driver successfully gets the calibration data, the driver will automatically check this box. Remove the check mark if you do not want to use the data. 3 44 Driver and Software Accessories tab When you install the optional accessories, you can add and choose their settings in the Accessories tab as follows.

3 3 1 3 4 2 Available Options (1) You can manually add and remove the options that are installed on the printer. Tray settings will match the installed options. Paper Source Setting (2) This feature recognizes the paper size set from the control panel menu for each paper tray. Serial No. (3) By clicking Auto Detect, the printer driver will probe the printer and display its serial number.

If it fails to receive the information, the screen will display "-----". Auto Detect (4) The Auto Detect function finds the currently installed optional devices and serial No. and then shows the available settings in the printer driver. When you click Auto Detect, options that are installed on the printer will be listed in Available Options (1). You can manually add or remove the options by choosing an optional device you want to add or remove, and then clicking Add or Remove.

Note The Auto Detect function is not available under the following printer conditions: · The printer power switch is off. · The printer is in an error state. · The printer is in a network shared environment. · The cable is not connected to the printer correctly. 45 Driver and Software Support tab 3 1 3 2 3 Brother Solutions Center (1) The Brother Solutions Center (<http://solutions.brother.com>) is a web site offering information about your Brother product including FAQs (Frequently Asked Questions), User's Guides, driver updates and tips for using your printer. Printer Settings (2) This will print the pages that show how the internal settings of the printer have been configured. Check Setting..

(3) You can check the current driver settings. 46 Driver and Software Using the custom monochrome printer driver (for Windows®) You can install a windows® printer driver that will restrict printing to monochrome only. If you want to install the Windows® printer driver that will restricted color printing, choose Custom setup from Install Printer Driver selection on the menu screen of the supplied CD-ROM. After accepting the software license and the initial installation screens, follow the steps below when the Select Components screen appears. 3 3 a Choose PCL Driver and any other Components you wish to install and click the Settings button. Note If you are using the HL-4040CN,HL-4040CDN the PCL driver will automatically be selected. b Check the Enable box for Restrict Color Printing and enter a password in the Password box and Confirm Password box. Then click OK. Note · The password must be between 5 and 25 characters.

· You can unlock the restrict color printing setting by using the Color/Mono Lock feature of the printer driver. (See the Administrator selection of Device Options on page 42.) To unlock the driver for color printing, you will need the password you set at step b. 47 Driver and Software Using the BR-Script3 printer driver (PostScript® 3™ language emulation for Windows®) (HL-4050CDN/HL-4070CDW only) (For more information, see the Help text in the printer driver.



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) 3 Note · To use the BR-Script3 printer driver you must install the driver using the Custom Install from the CD-ROM.

· The screens in this section are from Windows® XP. The screens on your computer may vary depending on your operating system. 3 Device Settings tab Choose the options you have installed. 3 48 Driver and Software Printing Preferences Note If you are using Windows® 2000, XP, Windows Vista™ or Windows Server® 2003, you can access the Printing Preferences dialog box by clicking Printing Preferences..

· in the General tab of the Brother HL-4050CDN(HL-4070CDW) BR-Script3 Properties dialog box. Layout tab You can change the layout setting by choosing the settings for Orientation, Print on Both Sides (Duplex), Page Order and Page Per Sheet. 3 3 · Orientation Orientation selects the position of how your document will be printed. (Portrait, Landscape or Rotated Landscape) · Print on Both Sides If you want to do duplex printing. choose Flip on short or Flip on Long Edge. · Page Order Specifies the order in which the pages of your document will be printed. Front to Back prints the document so that page 1 is on top of the stack. Back to Front prints the document so that page 1 is on the bottom of the stack. 49 Driver and Software Paper/Quality tab Choose the Paper Source and Color.

3 · Paper Source You can choose Auto Select, Tray1, MP tray or Manual Feed. · Color Choose how to print color graphics either Black and White or Color. 50 Driver and Software Advanced options 3 1 3 2 a Choose the Paper Size and Copy Count (1). Paper Size From the drop-down box choose the Paper Size you are using. Copy Count The copy selection sets the number of copies that will be printed. b Set the Image Color Management, Scaling and TrueType Font settings (2). Image Color Management Specifies how to print your color graphics. · If you don't want to enable Image Color Management, click ICM Disabled. · If you want the calculations for color matching to be performed on the host computer before it sends the document to the printer, click ICM Handled by Host System. · If you want the calculations for color matching to be performed on your printer, click ICM Handled by Printer using printer calibration.

Scaling Specifies whether to reduce or enlarge documents, and by what percentage. TrueType Font Specifies the TrueType font options. Click Substitute with Device Font (the default) to use equivalent printer fonts for printing documents that contain TrueType fonts. This will permit faster printing; however, you might lose special characters not supported by the printer font. Click Download as Softfont to download TrueType fonts for printing instead of using printer fonts.

51 Driver and Software c You can change settings by choosing a setting in the Printer Features list (3): 3 3 Media Type You can use the following types of media in your printer. For the best print quality, select the type of media that you wish to use. Plain Paper Env. Thick Thin Paper Env. Thin Thick Paper Recycled Paper Thicker Paper Postcard Bond Paper Label Envelopes Job Spooling Secure Print allows you to secure documents that are password protected when they are sent to the printer.

Only the people who know the password will be able to print them. Since the documents are secured at the printer, you must enter the password using the control panel of the printer. The secured document must have a Password and Job Name. (For more information about the Reprint function, see Reprinting documents on page 74.) Password Choose the password for your secured document that you send to the machine from the drop-down box. Job Name Choose the Job name from the drop-down list for your secured document. 52 Driver and Software Print Quality You can choose the following print quality settings. · Normal 600 dpi class. Recommended for ordinary printing. Good print quality with good print speeds.

· Fine 2400 dpi class. The finest print mode. Use this mode to print precise images such as photographs. Since the print data is much larger than in normal mode, processing time, data transfer time and printing time will be longer. Toner Save You can conserve toner using this feature. When you set Toner Save Mode to On, print appears lighter. The default setting is Off. Note We do not recommend Toner Save for printing Photo or Gray Scale images. Color/Mono You can choose the following color mode: · Color The device will print all pages in full color mode. · Mono Selecting Mono mode prints your documents in grayscale.

Note If the Cyan, Magenta or Yellow toner runs out, choosing Mono will allow you to keep printing as long as the Black toner does not run out. Gamma Correction You can adjust the brightness of your printed document compared to the image on the screen. Color Mode The following options are available in Color Matching mode: · Normal This is the Default color mode. · Vivid The color of all elements are adjusted to become a more vivid color. Improve Gray Color You can improve the image of a shaded area.

Enhance Black Printing If a black graphic cannot print correctly, choose this setting. 3 53 Driver and Software Halftone Screen Lock Stops other applications from modifying the Halftone settings. The default setting is On. High Quality Image Printing You can get high quality image printing. If you set High Quality Image Printing to On, the printing speed will be slower.

BR-Script Level You can change the BR-script emulation language level. Choose a level from the drop-down list. 3 Ports tab Choose the port where your printer is connected or the path to the network printer you are using. 3 54 Driver and Software Features in the printer driver (for Macintosh®) This printer supports Mac OS® X 10.2.4 or greater. Note The screens in this section are from Mac OS® X 10.4. The screens on your Macintosh® will vary depending on your operating system. 3 3 3 Page Setup You can set the Paper Size, Orientation and Scale.

Copies & Pages You can set the Copies and Pages. 3 55 Driver and Software Cover Page (for Mac OS® X 10.4) You can make the following cover page settings: 3 3 Print Cover Page If you want to add a cover page to your document, use this function. Cover Page Type Choose a template for the cover page. Billing Info If you want to add the billing information to the cover page, enter text in the Billing Info box. Layout 3 Pages per Sheet Choose how many pages will appear on each side of the paper. Layout Direction When you specify the pages per sheet, you can also specify the direction of the layout. Border If you want to add a border, use this function. 56 Driver and Software Job Spooling 3 3 The printer keeps the last print job sent to it in memory. You can reprint a document without sending the data again from your computer (except for secure printing).



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