



# 450 Series Memory Maker

## User's Guide



**August 2005**

**[www.lexmark.com](http://www.lexmark.com)**

---

Lexmark and Lexmark with diamond design are trademarks of Lexmark International, Inc., registered in the United States and/or other countries.

© 2005 Lexmark International, Inc.

**All rights reserved.**

740 West New Circle Road  
Lexington, Kentucky 40550

## **Edition: August 2005**

**The following paragraph does not apply to any country where such provisions are inconsistent with local law:** LEXMARK INTERNATIONAL, INC., PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions; therefore, this statement may not apply to you.

This publication could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in later editions. Improvements or changes in the products or the programs described may be made at any time.

Comments about this publication may be addressed to Lexmark International, Inc., Department F95/032-2, 740 West New Circle Road, Lexington, Kentucky 40550, U.S.A. In the United Kingdom and Eire, send to Lexmark International Ltd., Marketing and Services Department, Westhorpe House, Westhorpe, Marlow Bucks SL7 3RQ. Lexmark may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you. You can purchase additional copies of publications related to this product by calling 1-800-553-9727. In the United Kingdom and Eire, call +44 (0)8704 440 044. In other countries, contact your point of purchase.

References in this publication to products, programs, or services do not imply that the manufacturer intends to make these available in all countries in which it operates. Any reference to a product, program, or service is not intended to state or imply that only that product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any existing intellectual property right may be used instead. Evaluation and verification of operation in conjunction with other products, programs, or services, except those expressly designated by the manufacturer, are the user's responsibility.

© 2005 Lexmark International, Inc.

**All rights reserved.**

### **UNITED STATES GOVERNMENT RIGHTS**

This software and any accompanying documentation provided under this agreement are commercial computer software and documentation developed exclusively at private expense.

# Contents

---

<b>Safety and other information.....</b>	<b>5</b>
Things you should know before getting started.....	6
Finding information about the printer.....	7
<b>Understanding the printer.....</b>	<b>9</b>
Printer parts.....	9
Using the control panel.....	11
Navigating the display menus.....	13
<b>Loading paper into the printer.....</b>	<b>15</b>
Loading paper.....	15
Selecting the paper size.....	16
Selecting the paper type.....	16
<b>Getting started printing photos.....</b>	<b>17</b>
Previewing photos.....	17
Selecting and printing photos.....	17
Printing an index page.....	17
Printing all photos from a photo storage device.....	19
Printing multiple copies of a photo.....	19
Changing the print quality.....	19
<b>Selecting and editing photos.....</b>	<b>21</b>
Adjusting the print area.....	21
Adjusting the appearance of photos .....	22
Using Color Effects.....	24
<b>Viewing a slide show.....</b>	<b>26</b>
Viewing a photo slide show.....	26
Video output.....	26

<b>Using photo storage devices.....</b>	<b>27</b>
Inserting a memory card.....	27
Inserting a USB flash drive.....	29
Using the CD drive.....	30
<b>Printing directly from digital cameras, mobile phones, and PDAs.....</b>	<b>32</b>
Printing from mobile phones.....	32
Bluetooth wireless support.....	32
Using a PictBridge-enabled digital camera to control printing photos.....	34
Printing a DPOF selection.....	34
<b>Maintaining the printer.....</b>	<b>36</b>
Maintaining the cartridge.....	36
Refilling the print cartridge.....	42
<b>Troubleshooting.....</b>	<b>43</b>
General troubleshooting.....	43
Photo storage device troubleshooting.....	47
Error messages.....	48
<b>Notices.....</b>	<b>50</b>
<b>Index.....</b>	<b>54</b>

# Safety and other information

---

Refer to this section for safety information and other general warnings and notes related to this product.

## Safety information

- Use only the power supply and power cord provided with this product or the manufacturer's authorized replacement power supply and power cord.
- Connect the power supply cord to an electrical outlet that is near the product and easily accessible.
- Refer service or repairs, other than those described in the user documentation, to a professional service person.

**CAUTION:** Do not set up this product or make any electrical or cabling connections, such as the power cord or telephone, during a lightning storm.

## Conventions

**Note:** A *note* identifies something that could help you.

**CAUTION:** A *caution* identifies something that could cause you harm.

**Warning:** A *warning* identifies something that could damage your product hardware or software.

## Copyright advisory

It may be illegal to copy certain materials without permission or license, including documents, images, and currency. If you are not sure whether you have permission, seek legal advice.

## Trademarks

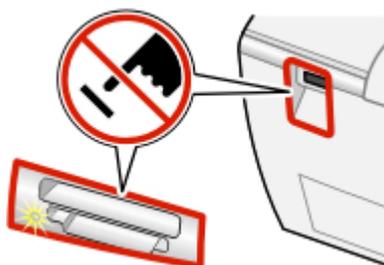
Lexmark and Lexmark with diamond design are trademarks of Lexmark International, Inc., registered in the United States and/or other countries.

Other trademarks are the property of their respective owners.

# Things you should know before getting started

## General warnings

**Warning:** Do *not* remove cables, photo storage devices, or touch the printer in the area shown while the light is blinking.



## General notes

### Notes:

- If you want to print a photo while using the control panel, a photo storage device must be inserted in, or connected to, the printer.
- The printer will not read a memory card if a second memory card or a USB flash drive is inserted, if a PictBridge-enabled digital camera is connected, or a camera phone is detected.

### Memory card

- Insert the card with brand name label facing up.
- If there is an arrow on the card, make sure it points toward the printer.
- Insert only one memory card at a time.

### Bluetooth adapters

- An adapter is not included with the printer.
- Consult the Lexmark Web site at [www.lexmark.com](http://www.lexmark.com) for late-breaking information about supported Bluetooth adapters.
- Follow the instructions provided with your Bluetooth-enabled device to view and print photos.

### CD

- Insert only one CD into the drive at a time.
- Consult the Lexmark Web site at [www.lexmark.com](http://www.lexmark.com) for late-breaking information about supported CDs.

## USB flash drive

- An adapter may be necessary if your USB flash drive does not fit directly into the PictBridge port.
- Consult the Lexmark Web site at [www.lexmark.com](http://www.lexmark.com) for late-breaking information about supported USB flash drives.

## PictBridge enabled digital cameras or camera phones

- Make sure the PictBridge-enabled digital camera or camera phone is set to the correct USB mode. For more information, see the camera or camera phone documentation.
- Follow the instructions provided with your camera or camera phone to operate the printer.

## Finding information about the printer

### Setup sheet

Description	Where to find
The <i>Setup</i> sheet gives you instructions for setting up hardware.	You can find this document in the printer box or on the Lexmark Web site.

### User's Guide

Description	Where to find
The <i>User's Guide</i> gives you instructions for using the printer and other information such as: <ul style="list-style-type: none"><li>• Maintenance</li><li>• Troubleshooting</li><li>• Safety</li></ul>	You can find this document in the printer box or on the Lexmark Web site.

## Web site

Description	Where to find
<p>Our Web site contains a variety of information.</p> <p><b>Note:</b> All paths for the Web site are subject to change.</p>	<p>Visit our Web site at <a href="http://www.lexmark.com">www.lexmark.com</a>.</p> <ol style="list-style-type: none"><li data-bbox="542 256 777 284">1 Go to the Web site.</li><li data-bbox="542 296 986 352">2 Select a language from the drop-down list in the upper-right corner of the page.</li><li data-bbox="542 365 967 416">3 Select the link for the information you need.</li></ol>

Record the following information (located on the store receipt and the back of the printer), and have it ready when you contact us so that we may serve you faster:

Machine Type number:

Serial number:

Date purchased:

Store where purchased:

# Understanding the printer

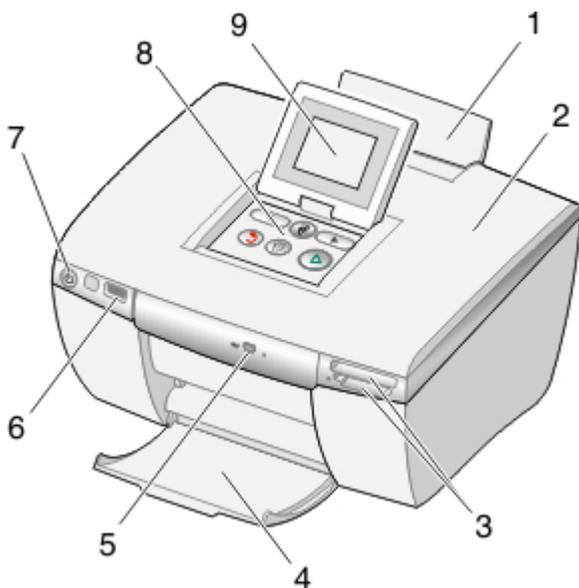
---

This compact printer is a standalone device that can be used to:

- View
- Print
- Save

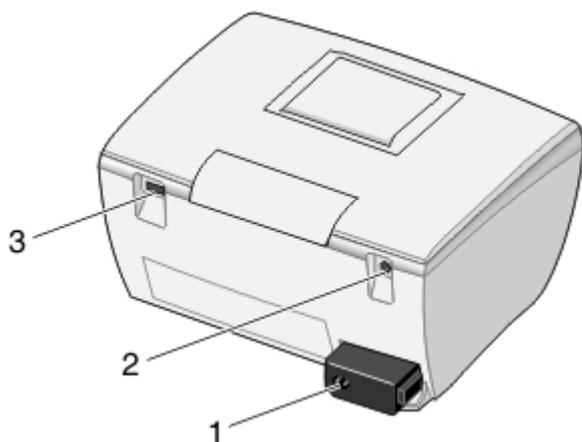
photos.

## Printer parts



	Use the	To
1	Paper support	Load paper.
2	Access cover	Access the print cartridge.
3	Memory card slots	Insert memory cards.
4	Paper exit tray	Stack paper as it exits.
5	CD drive	Insert a CD in the CD drive.

	Use the	To
6	PictBridge port	Connect a PictBridge-enabled digital camera or USB flash drive to the printer.
7	Power button	Turn the printer on and off. Use  to turn the printer on and off. <b>Note:</b> .After the printer is idle for five minutes, the ink level screen appears.
8	Control panel	Operate the printer. Before attempting to use the control panel, be sure  on the front of the printer is on.
9	Display	<ul style="list-style-type: none"> <li>• Raise the display to access the control panel buttons.</li> <li>• Adjust the angle of the screen for viewing.</li> <li>• View menus, settings, messages, and photos.</li> <li>• Use the buttons on the control panel to select options.</li> </ul>



	Use the	To
1	Power connector	Connect the printer to a power source.
2	Video output port	Connect a TV to the printer using a super video cable.
3	Bluetooth port	Connect a Bluetooth adapter (only) to the printer.

## Using the control panel



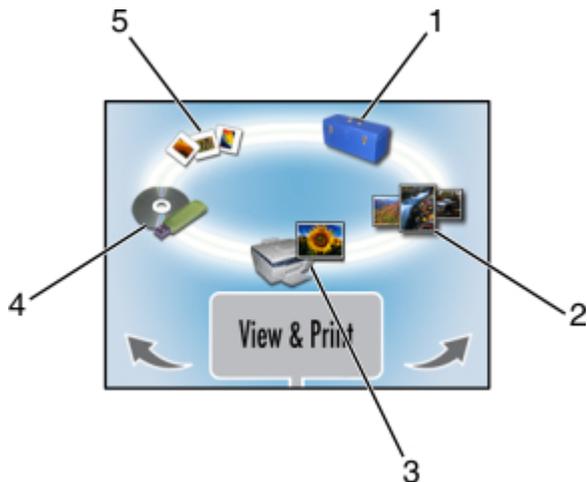
If you want to print a photo while using the control panel, a photo storage device must be inserted in or connected to the printer.

**Note:** The availability of some of these functions depends on your place within the menu you have selected.

Press	To
Right  or  Left	<ul style="list-style-type: none"> <li>• Scroll through menus or menu options.</li> <li>• Change settings on a submenu item.</li> <li>• Display the previous or next picture.</li> </ul>
Select 	<ul style="list-style-type: none"> <li>• Select a menu or menu option.</li> <li>• Select or clear a photo from the list to be printed.</li> <li>• Apply a photo-editing feature.</li> </ul> <p><b>Note:</b> This button is only lit when available.</p>
Return 	Return to the previous or beginning screen. <p><b>Note:</b> This button has no effect when you are on the opening screen of a menu.</p>
Edit 	<ul style="list-style-type: none"> <li>• Edit photos, such as cropping, enhancing the image, and removing red-eye.</li> <li>• Change the number of copies.</li> </ul> <p><b>Note:</b> This button has no effect when you are on the opening screen of a menu.</p>
Start/Print 	<ul style="list-style-type: none"> <li>• Start printing.</li> <li>• Start a slideshow.</li> <li>• Start copying to a CD or USB flash drive.</li> </ul> <p><b>Note:</b> This button has no effect when you are on the opening screen of a menu.</p>

## Navigating the display menus

- 1 Insert a memory card, CD, or USB flash drive.
- 2 Press ◀ or ▶ to choose one of the available options.



	Use	To
1	Setup	Select printer settings and options, and perform maintenance tasks
2	Print All / Index	Print all photos or an index page.
3	View & Print	Select, edit, and print photos.
4	Save / Copy	Copy photos onto a CD or USB flash drive.
5	Slide Show	View a photo slide show on the display or TV screen.

- 3 Press .
- 4 Press .
- 5 Press ◀ or ▶ until the option you want appears.
- 6 Press .
- 7 Follow the instructions on the display.

## Selecting Setup printer options

Setup features let you select options for printer operation. Some of the available options include:

- Language
- Power Save
- Clear Settings
- Restore Defaults
- Bluetooth Mode
- Video Output Format

- 1** Insert a memory card, CD, or USB flash drive; connect a PictBridge-enabled digital camera; or make sure a Bluetooth adapter is attached.
- 2** Press  or  until **setup** appears.
- 3** Press  or  until the option you want appears.
- 4** Press  .
- 5** Follow the instructions on the display.

# Loading paper into the printer

---

## Using supported paper types

- Card stock—postcards, index cards, greeting cards, Hagaki cards
- Photo paper—glossy, Lexmark Everyday Photo, Lexmark Premium Photo

## Using supported paper types

- 4 x 6 in
- A6
- 10 x 15 cm
- L
- Hagaki

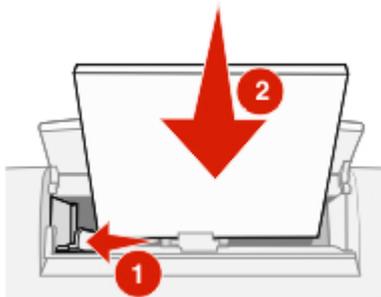
## Before loading paper

Make sure:

- The paper is not used or damaged.
- You do not force paper into the printer. Do not attempt to overload the paper support.

## Loading paper

- 1 Move the paper guide (located inside the paper support) to the left.
- 2 Place the paper against the right side of the paper support.



## Selecting the paper size

- 1 From the main screen, press ◀ or ▶ until **Setup** appears.
- 2 Press .
- 3 Press ◀ or ▶ until **Paper Size** appears.
- 4 Press .
- 5 Press ◀ or ▶ until the paper size you want appears.
- 6 Press .

## Selecting the paper type

- 1 From the main screen, press ◀ or ▶ until **Setup** appears.
- 2 Press .
- 3 Press ◀ or ▶ until **Paper Type** appears.
- 4 Press .
- 5 Press ◀ or ▶ until the paper type you want appears.
- 6 Press .

# Getting started printing photos

---

This chapter contains basic information about printing photos using the printer operator panel. For information about printing from specific photo storage devices, see “Using photo storage devices” on page 27.

## Previewing photos

- 1 Insert a memory card, CD, or USB flash drive.
- 2 Press  or  until **View & Print** appears.
- 3 Press .
- 4 Press .
- 5 Press  or  to view the photos.
- 6 Press  to return to the previous display.

## Selecting and printing photos

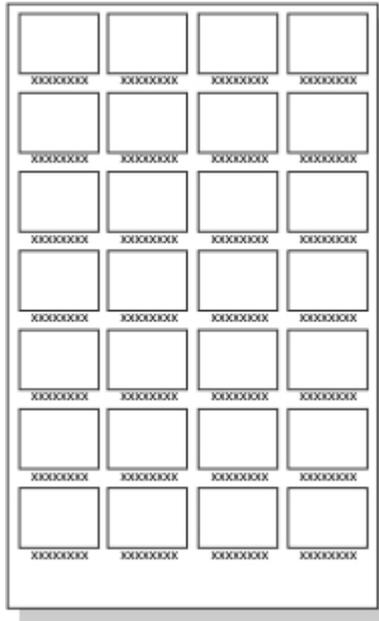
You can select specific photos to print from a photo storage device.

- 1 Insert a memory card, CD, or USB flash drive.
- 2 Press  or  until **View & Print** appears.
- 3 Press  twice.
- 4 Press  or  to browse the photos.
- 5 Press  to select a photo.

You can select multiple photos before you press  to print them.

## Printing an index page

Print an index page showing all of the photos on a photo storage device. When copying your photos to a CD, store the index with the CD.



**Note:** Digital Print Order Format (DPOF) is a feature available on some digital cameras and camera phones. Index print is not available if the photo storage device contains a DPOF file.

- 1 Insert a memory card, CD, or USB flash drive.
- 2 Press  until **Print All / Index** appears.
- 3 Press .

If there is no DPOF information on the photo storage device, the following message appears on the display: **Would you like to print one photo per page, or an index page with thumbnails?**

- 4 Press  to choose **Index Page**.
- 5 Press .
- 6 Press  to begin printing.

## Printing all photos from a photo storage device

- 1 Insert a memory card, CD, or USB flash drive.
- 2 Press  until **Print All / Index** appears.
- 3 Press .
- 4 Press  to print each photo on its own page.
- 5 Press  to begin printing.

## Printing multiple copies of a photo

You can print from one to ten copies of each image.

- 1 Insert a memory card, CD, or USB flash drive.
- 2 Press  or  until **View & Print** appears.
- 3 Press .
- 4 Press  or  to browse the photos.
- 5 Press  to select a photo.
- 6 Press .
- 7 Press  or  until **Copies** appears.
- 8 Press .
- 9 Press  or  to change the number of copies.
- 10 Press .
- 11 Press .

You can select multiple photos and adjust the number of copies for each photo before you press  to print them.

## Changing the print quality

- 1 From the main screen, press  or  until **Setup** appears.
- 2 Press .

- 3 Press ◀ or ▶ until **Print Quality** appears.
- 4 Press .
- 5 Press ◀ or ▶ until the quality you want appears.
- 6 Press .
- 7 Press  to return to the previous display.

# Selecting and editing photos

---

You can choose from any of the available editing options, such as zooming in on a particular area in the photo, adjusting the brightness, removing red eye, or other color effects to edit the photos before printing or saving. All photos selected remain selected until you deselect them or remove the camera card, USB flash drive, or CD.

You can also select photos during a slide show by pressing  when the photo you want appears on the screen. When the slide show is complete, return to the View & Print menu to print them or to the Save / Copy menu to copy them to a CD or a USB flash drive.

**Note:** The changes you make to the photos will only appear on your prints. They are not saved to the original image file. To save your changes, copy the photo from your camera card to a writable photo storage device, such as a CD or USB flash drive, once changes have been made.

## Adjusting the print area

You can adjust the area of your finished prints.

### Notes:

- Make sure a photo storage device is inserted in the printer. For more information, see “Using photo storage devices” on page 27.
- The changes you make for the prints are not automatically saved after printing. Use writable photo storage devices, such as a CD or USB flash drive, to save any changes to the images.

### Cropping, moving, rotating, or zooming the print area

- 1 Insert a memory card, CD, or USB flash drive.
- 2 Press  or  until **View & Print** appears.
- 3 Press .  
A menu of options appears.
- 4 Press .
- 5 Press  or  repeatedly until the photo you want to adjust appears.
- 6 Press  to select a photo.

7 Press .

**Crop & Zoom** appears.

8 Press .

9 Press  repeatedly to select one of the following:

- **Rotate** to change the photo from portrait to landscape
- **Zoom-In/Zoom-Out** to enlarge or reduce part of the photo
- **Left/Right** to horizontally change part of the photo
- **Up/Down** to vertically change part of the photo

10 Press  or  to change the print area.

11 Repeat steps 8 and 9 until the print area appears as you want it.

12 Press .

13 Press .

**Note:** You can edit more photos before printing.

## Adjusting the appearance of photos

You can adjust the appearance of your photos to remove red-eye, change brightness, and make other changes before printing.

1 Insert a memory card, CD, or USB flash drive.

2 Press  or  until **View & Print** appears.

3 Press  twice.

4 Press  or  repeatedly until the photo you want to adjust appears.

5 Press .

6 Press .

7 Press  or  until the option you want appears.

8 Press .

9 Press  or  until the option you want appears, or follow the prompts on the display.

- 10 Press .
- 11 Press  to return to the previous display.
- 12 Continue to select and edit all of the photos you want to print.
- 13 Press  to print.

**Note:** You can change multiple photos before printing.

### Enhancing photos

To enhance the details or adjust the brightness of a picture in one step:

- 1 Insert a memory card, CD, or USB flash drive.
- 2 Press  or  until **View & Print** appears.
- 3 Press  twice.
- 4 Press  or  repeatedly until the photo you want to adjust appears.
- 5 Press .
- 6 Press .
- 7 Press  or  until **Image Enhance** appears.
- 8 Press .
- 9 Press  or  until **On**, **Off**, or **Manual** appears.

If you select **Manual**, press  or  to move the slider and adjust the brightness.

- 10 Press .
- 11 Press  to return to the previous display.
- 12 Press  to print your photos.

### Removing Red Eye

- 1 Insert a memory card, CD, or USB flash drive.
- 2 Press  or  until **View & Print** appears.
- 3 Press  twice.
- 4 Press  or  repeatedly until the photo you want to adjust appears.

- 5 Press .
- 6 Press .
- 7 Press  or  until **Red Eye** appears.
- 8 Press .
- 9 Press  or  until **On** appears.
- 10 Press .
- 11 Press  to return to the previous display.
- 12 Press  to print your photos.

## Using Color Effects

The Color Effects feature lets you print in tones of Sepia, Antique Brown, Antique Gray, or black and white (B/W).

**Note:** This setting remains in effect only for the current printing process.

- 1 Insert a memory card, CD, or USB flash drive.
- 2 Press  or  until **View & Print** appears.
- 3 Press  twice.
- 4 Press  or  repeatedly until the photo you want to adjust appears.
- 5 Press  to choose a photo.
- 6 Press .
- 7 Press  until **Color Effects** appears.
- 8 Press .
- 9 Press  or  until the option you want appears: **Off**, **B/W**, **Sepia Tone Print**, **Antique Brown**, or **Antique Gray**.
- 10 Press .

11 Press  to return to the previous display.

12 Press  to begin printing.

**Note:** You can select and edit more photos before printing.

# Viewing a slide show

---

## Viewing a photo slide show

You can view a slide show of the photos saved on a photo storage device.

- 1 Insert a memory card, CD, or USB flash drive; connect a PictBridge-enabled digital camera; or make sure a Bluetooth adapter is attached.
- 2 Press  repeatedly until **slide show** appears.
- 3 Press .
- 4 Press  to view the photos on the display, or press , and then press  to view the photos on your TV.
- 5 Press .
- 6 Press  to begin the slide show.

Press

-  to pause
-  to continue
-  to select a photo
-  to rotate

**Note:** When you have completed viewing the slide show, return to the View & Print menu to print any selected photos, or go to the Save / Copy menu to copy the selected photos to the USB flash drive or to the CD.

## Video output

The printer lets you view the photo slide show on the printer display on your TV screen. To connect a TV to the printer, use a video cable and the video port located on the back of the printer.

**Note:** Make sure you select the correct video output type from the Setup menu. For more information, see “Navigating the display menus” on page 13.

# Using photo storage devices

---

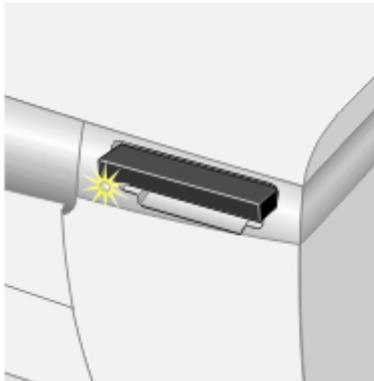
You can use several kinds of photo storage devices to work with photos.

- See the section on the device you want to use for instructions on its use.
- To select and print photos from a photo storage device, see “Selecting and printing photos” on page 17.

**Note:** The printer will not read a memory card if a second memory card is inserted, or if a PictBridge-enabled digital camera is connected.

## Inserting a memory card

- 1 Locate the memory card slots on the right front of the printer.
- 2 Insert a memory card into the appropriate slot.
  - Insert the card with the brand name label facing up.
  - If there is an arrow on the card, make sure it points toward the printer.
  - Insert only one memory card at a time.



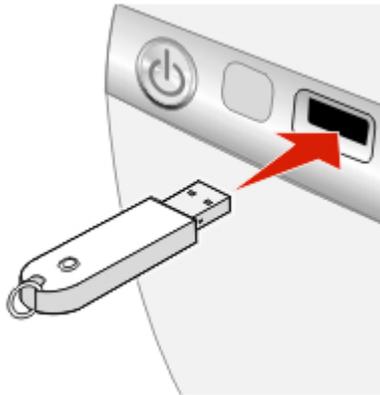
Slot	Memory card
Top slot	CompactFlash
Bottom slot	<ul style="list-style-type: none"> <li>• Memory Stick (MS)</li> <li>• Memory Stick PRO</li> <li>• MultiMedia Card (MMC)</li> <li>• Secure Digital (SD)</li> <li>• SmartMedia</li> </ul> <p><b>Note:</b> Be sure the gold contact area faces up. Insert the card all the way in quickly.</p>
Bottom slot with adapter	<ul style="list-style-type: none"> <li>• xD Picture Card</li> <li>• Memory Stick Duo</li> <li>• Mini SD</li> <li>• RS-MMC</li> <li>• TransFlash</li> </ul> <p><b>Note:</b> Be sure to connect the memory card to the adapter that came with it before inserting it in the slot.</p>

**3** Wait for a small light on the card reader to come on. The light blinks to indicate the memory card is being read or is transmitting data.

If the printer does not read the memory card, remove and reinsert it.

## Inserting a USB flash drive

- 1 Insert the USB flash drive into the PictBridge port on the front of the printer.



### Notes:

- An adapter may be necessary if your USB flash drive does not fit directly into the port.
  - The printer reads only one photo storage device at a time.
- 2 Wait for the light on the printer to come on. The light blinks to indicate the flash drive is being read or is transmitting data.

### Copying photos to the USB flash drive

- 1 Insert a USB flash drive.
- 2 Insert a memory card or CD.
- 3 Press ◀ or ▶ until **save / Copy** appears.

**Note:** If you edit photos before copying to the USB flash drive, the changes are saved with the photo.

- 4 Press .
- 5 Press ◀ or ▶ until **Copy to CD or USB** appears.  
Press .

6 To copy all photos, press .

To copy selected photos, press , and then select all the photos you want to copy by pressing .

7 Press .

**Ready to Copy?** appears.

8 Press .

The photos are copied to the USB flash drive.

9 Press  to select **Finished**.

## Using the CD drive

You can print photos from a CD, save photos to a CD, and view photos stored on a CD. You can use a CD as a source for a slide show.

Your printer has been designed to work with standard high quality CD-R media. Look for the following symbol when purchasing CDs for use with this printer:



### Inserting a CD into the CD drive

1 Press the button on the front of the CD drive to open it.

2 Insert a CD.



3 Gently push the CD drawer toward the printer to close it.

A light flashes to indicate that the CD is being read.

## Copying photos to the CD

- 1 Insert a CD.
- 2 Insert a memory card or USB flash drive.
- 3 Select **Yes** when asked **begin using USB?**.

- 4 Press ◀ or ▶ until **save / Copy** appears.

**Note:** If you edit photos before copying to the CD, the changes are saved with the photo.

- 5 Press .

- 6 Press .

- 7 Press ◀ or ▶ to choose **Copy All # Photos** or **Select Photos**.

- 8 Press .

**Ready to Copy?** appears.

- 9 Press .

The photos are copied to the CD.

- 10 Press ◀ or ▶ to choose **Copy to Another** or **Finished**.

- 11 Press  twice.

- 12 Press .

Print an index page to store with your CD. For more information, see "Printing an index page" on page 17.

# Printing directly from digital cameras, mobile phones, and PDAs

---

With direct printing, photos are selected on the display of the camera, mobile phone, or PDA. The printer is operated from the camera, phone, or PDA. The operator panel of the printer is not needed.

When printing from mobile phones and PDAs, it is sometimes necessary to select a printer type. If prompted, select **HP 995C**.

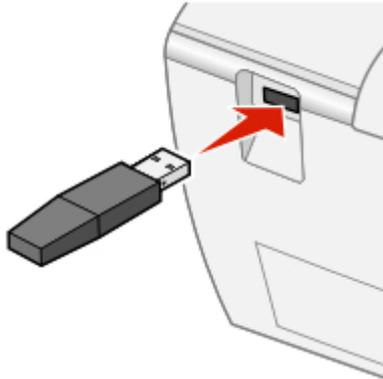
## Printing from mobile phones

This Mobile Printing Ready product is designed to provide easy printing from mobile phones. This product follows Mobile Imaging and Printing Consortium (MIPC) Implementation Guidelines for Home Printing with Terminals, Version 1.0, for Bluetooth, PictBridge, and memory cards.

See the documentation that came with your mobile phone for printing instructions.

## Bluetooth wireless support

Insert a USB Bluetooth adapter into the USB port located on the rear of the printer.



**Note:** An adapter is not included with the printer.

### Turning Bluetooth Mode On or Off

This option lets you choose whether “Bluetooth Mode” is on.

- 1 Press ◀ or ▶ until **Setup** appears.
- 2 Press .
- 3 Press ▶ until **Bluetooth Mode** appears.
- 4 Press .
- 5 Press ◀ or ▶ until **Non-Discoverable** or **Discoverable** appears.

**Notes:**

- **off** means that Bluetooth is off.
- **Discoverable** means that Bluetooth is on. The printer looks for other units and can be found by other units.
- **Non-Discoverable** means that Bluetooth is on. The printer looks for other units but cannot be found by other units.

- 6 Press .
- 7 Press  to exit the Setup menu.

### **Locating the Device Name and Universally Administered Address (UAA)**

This option lets you view the Device Name and UAA number automatically assigned for Bluetooth devices. You may do this to determine the factory assigned name or UAA number to assign to it for your mobile phone or personal digital assistant (PDA).

Some mobile devices display the UAA number instead of a name.

**Note:** The device name and UAA number cannot be changed.

- 1 Press ◀ or ▶ until **Setup** appears.
- 2 Press .
- 3 Press ▶ until **Bluetooth Mode** appears.  
The printer device name appears.
- 4 Press  to exit the Setup menu.

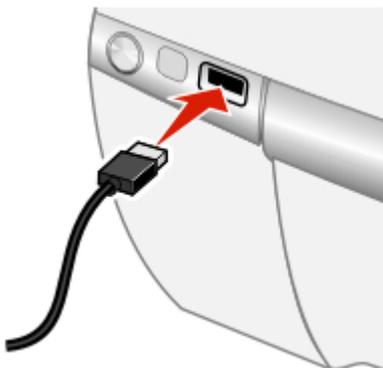
## Using a PictBridge-enabled digital camera to control printing photos

Connect a PictBridge-enabled digital camera to the printer, and use the buttons on the camera to operate the printer.

- 1 Insert one end of the USB cable into the camera.

**Note:** Use only the USB cable that came with the digital camera.

- 2 Insert the other end of the cable into the PictBridge port on the front of the printer.



**Note:** Make sure the PictBridge-enabled digital camera is set to the correct USB mode. For more information, see the camera documentation.

- 3 Follow the instructions in the camera documentation to select and print photos.

## Printing a DPOF selection

Digital Print Order Format (DPOF) is a feature available on some digital cameras and camera phones. If your digital camera supports DPOF, you can specify which photos to print, and how many of each, while the memory card is still in the camera. The printer recognizes these settings when you insert the memory card into the printer.

**Note:** Be sure the size of the paper loaded is not smaller than the size you specified in the DPOF selection.

- 1 Make sure the printer is turned on.
- 2 Load paper. For best results, use photo paper with the coated side facing you. For more information, see "Loading paper" on page 15.

- 3 Insert a DPOF-enabled photo storage device.

For more information, see “Inserting a memory card” on page 27.

If a DPOF file is found on the memory card, the message **Print All-or-Print DPOF** appears.

- 4 Press .

- 5 Press  or  until **Print DPOF** appears.

- 6 Press .

- 7 Press .

# Maintaining the printer

---

Maintenance features are available to keep the printer functioning smoothly. These include:

- Ink Level, for more information, see “Checking the ink level” on page 36.
- Align Cartridge, for more information, see “Aligning the print cartridge” on page 39.
- Clean Cartridge, for more information, see “Cleaning the print cartridge from the control panel” on page 39.
- Print Test Page, for more information, see “Printing a test page” on page 41.

## Maintaining the cartridge

### Checking the ink level

- 1 From the main screen, press  or  until **setup** appears.
- 2 Press .
- 3 Press  or  until **Ink Level** appears.
- 4 Press .
- 5 Press  to accept **Done**.
- 6 Press  to return to the previous menu.

### Ordering supplies

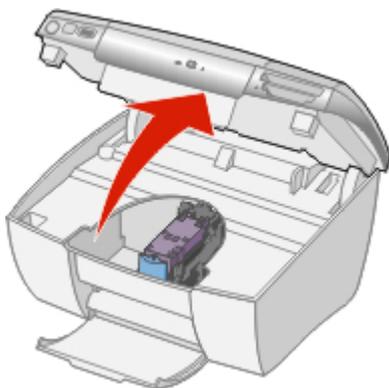
To order supplies or to locate a dealer near you, visit our Web site at [www.lexmark.com](http://www.lexmark.com).

Item	Part number
Color cartridge	33 or 35

**Note:** Photo paper and other supplies are also available on the Web site.

## Removing a used print cartridge

- 1 Make sure the printer is on.
- 2 Lift the access cover.



The print cartridge carrier moves and stops at the loading position, unless the printer is busy.

- 3 Press down on the cartridge lever to raise the cartridge lid.

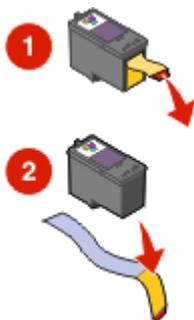


- 4 Remove the used print cartridge.



## Installing a print cartridge

- 1 Remove the sticker and tape from the back and bottom of the cartridge.

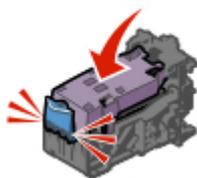


**Warning:** Do *not* touch the gold contact area on the back or the metal nozzles on the bottom of the cartridge.

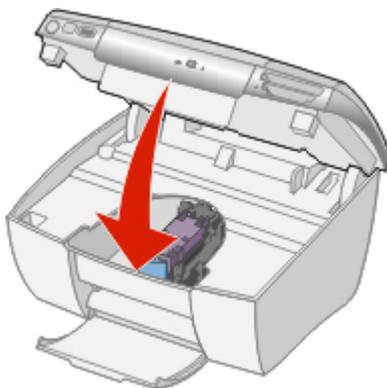
- 2 Insert the cartridge in the carrier.



- 3 Snap the lid closed.



- 4 Close the access cover.



Do you want to align the cartridge? appears.

- 5 Press  to accept **Yes**.

### Aligning the print cartridge

Align the print cartridge when you:

- Have installed a new cartridge
- Want to improve print quality

- 1 Press  or  until **Setup** appears.
- 2 Press .
- 3 Press  or  until **Align Cartridge** appears.
- 4 Press .
- 5 Press  to accept **Align**.
- 6 Press  to accept **Done**.
- 7 Press  to return to the previous menu.

If you aligned the cartridge to improve print quality, print your photo again. If print quality has not improved, clean the print nozzles. For more information, see “Cleaning the print cartridge from the control panel” on page 39.

### Cleaning the print cartridge from the control panel

Clean the print cartridge when you:

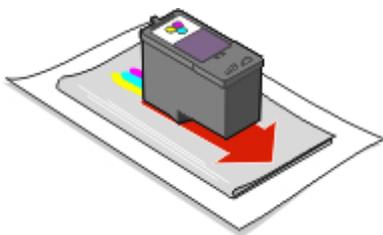
- Notice blank or faint areas in the printing
  - Want to improve print quality
- 1 Press ◀ or ▶ until **setup** appears.
  - 2 Press ⏵.
  - 3 Press ◀ or ▶ until **Clean Cartridge** appears.
  - 4 Press ⏵.
  - 5 Press ⏵ to accept **clean**.
  - 6 Press ⏵ to accept **Done**.
  - 7 Print your photo again.

If print quality has not improved, continue with the following procedure.

### **Wiping the print cartridge nozzles and contacts**

Wipe the print cartridge nozzles and contacts when you:

- Notice blank or faint areas in the printing
  - Want to improve print quality
- 1 Remove the print cartridge. For more information, see “Removing a used print cartridge” on page 37.
  - 2 Dampen a clean, lint-free cloth with water.
  - 3 Gently hold the cloth against the nozzles for about three seconds, and then wipe in the direction shown.



- Using another clean section of the cloth, gently hold the cloth against the contacts for about three seconds, and then wipe in the direction shown.



- With another clean section of the cloth, repeat step 3 and step 4.
- Let the nozzles and contacts dry completely.
- Reinsert the print cartridge.
- Close the access cover.
- Clean the cartridge by selecting **Clean Cartridge** from the control panel. For more information, see “Cleaning the print cartridge from the control panel” on page 39.
- Print the photo again.

#### Notes:

- If the print quality does not improve, repeat step 3 and step 4 on page 41 up to two more times.
- If print quality is not satisfactory after cleaning, replace the print cartridge.

#### Printing a test page

- Press ◀ or ▶ until **Setup** appears.
- Press ⌵.
- Press ▶ until **Print Test Page** appears.
- Press ⌵ twice.
- Press ↻ to return to the Setup menu.

## Using a genuine Lexmark print cartridge

When you install a print cartridge, one of the following messages appears:

- Lexmark recommends genuine ink.**
- Non-Lexmark cartridge detected. See user guide for details.**
- Thank you for using genuine Lexmark supplies.**

If you believe you purchased a genuine Lexmark print cartridge, but a non-Lexmark print cartridge message appears:

- Contact us at our Web site: [www.lexmark.com/recycle](http://www.lexmark.com/recycle), or
- Call the Customer Support Center for your country or region.

Lexmark's warranty does not cover damage caused by non-Lexmark print cartridges.

## Refilling the print cartridge

The warranty does not cover repair of failures or damage caused by a refilled cartridge. Lexmark does not recommend use of a refilled cartridge. Refilling a cartridge can affect print quality and may cause damage to the printer. For best results, use Lexmark supplies.

## Recycling Lexmark products

To return Lexmark products to Lexmark for recycling:

- 1 Visit our Web site at [www.lexmark.com/recycle](http://www.lexmark.com/recycle).
- 2 Follow the instructions on the computer screen.

# Troubleshooting

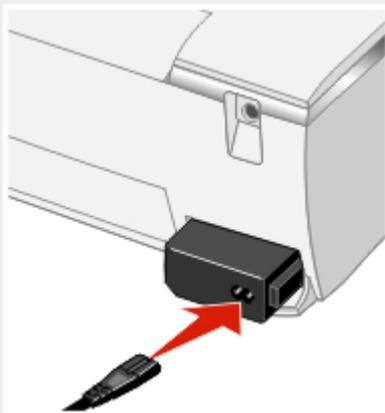
---

## General troubleshooting

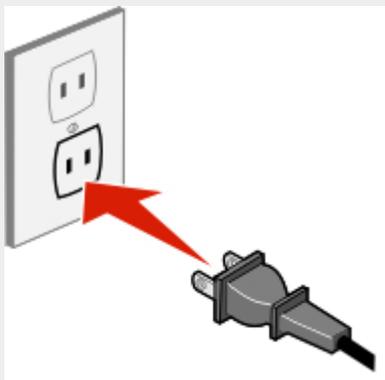
- “Power button is not lit” on page 43
- “Incorrect language appears on the display” on page 44
- “Page does not print or printer does not respond” on page 44
- “Poor photo quality” on page 45
- “Poor quality at the edges of the page” on page 46
- “Paper jam” on page 46
- “Paper misfeeds” on page 46
- “Printer does not feed paper” on page 46

### ***Power button is not lit***

- 1** Disconnect the power supply cord from the wall outlet and then from the printer.
- 2** Plug the cord all the way into the printer.



- 3 Plug the cord into an electrical outlet that other electrical devices have been using.



- 4 If the power button light is not on, press .

### ***Incorrect language appears on the display***

**Note:** You choose the language the first time you turn on the printer, but you can change it at any time.

- 1 Press  to turn the printer off.
- 2 Press  to turn the printer on.
- 3 From the control panel, press  twice.
- 4 Press .
- 5 Press  ten times.
- 6 Press .
- 7 Press  or  until the language you want appears.
- 8 Press .

### ***Page does not print or printer does not respond***

If an error message appears, see “Error messages on display” on page 47.

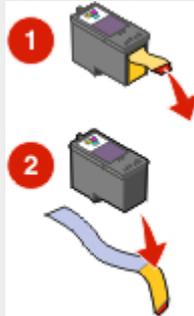
If the Power button light is not on, see “Power button is not lit” on page 43.

Make sure a cartridge is in the printer.

Remove and then load paper.

Check the ink level, and install a new print cartridge if necessary.

- 1 Remove the print cartridge. For more information, see “Removing a used print cartridge” on page 37.
- 2 Make sure the sticker and tape have been removed.



- 3 Reinsert the print cartridge. For more information, see “Installing a print cartridge” on page 38.

- 1 Press  to turn the printer off.
- 2 Disconnect the power supply cord from the wall outlet.
- 3 Gently remove the power supply from the printer.
- 4 Push firmly to reconnect the power supply to the printer.
- 5 Reinsert the power supply cord into the wall outlet.
- 6 Press .

### ***Poor photo quality***

Examples of poor photo quality include:

- Blank pages
- Dark print
- Faded print
- Incorrect colors
- Light and dark bands in print

- Skewed lines
- Smudges
- Streaks
- White lines in print

Check the ink level, and install a new print cartridge if necessary.

Use a different brand of paper. Each paper brand accepts ink differently and prints with color variations.

Use only new, unwrinkled paper.

### ***Poor quality at the edges of the page***

Be sure the paper size you are using is the same as the paper size you have selected from the control panel. For more information, see “Selecting the paper size” on page 16.

### ***Paper jam***

- 1 Press  to turn off the printer.
- 2 Firmly grasp the paper, and gently pull it out.
- 3 Press  to turn the printer back on.

### ***Paper misfeeds***

If paper misfeeds or skews, or multiple sheets feed or stick together, try the following solutions.

Load a smaller amount of paper into the printer.

Load paper with the print side facing you.

Remove each page as it exits, and let it dry completely before stacking.

Use only new, unwrinkled paper.

### ***Printer does not feed paper***

Check for a paper jam. For more information, see “Paper jam” on page 46.

Try loading one sheet at a time.

## **Photo storage device troubleshooting**

- “Memory card cannot be inserted” on page 47
- “Nothing happens when a memory card is inserted” on page 47
- “Error messages on display” on page 47
- “PictBridge-enabled device not recognized” on page 47
- “Cannot print from PictBridge-enabled devices” on page 48

### ***Memory card cannot be inserted***

Make sure that the type of memory card you are using can be used in the printer. For more information, see “Inserting a memory card” on page 27.

### ***Nothing happens when a memory card is inserted***

Remove and reinsert the memory card.

Make sure that the type of memory card you are using can be used in the printer. For more information, see “Inserting a memory card” on page 27.

See “Inserting a memory card” on page 27 to determine which slot accommodates your memory card and to see instructions on how to insert it.

Check that there is no obvious damage to the memory card or slots on the printer.

Insert only one memory device at a time.

Disconnect the PictBridge-enabled digital camera from the printer.

### ***Error messages on display***

If an error message is displayed, follow the instructions on the display, or see “Error messages” on page 48.

### ***PictBridge-enabled device not recognized***

Connect a PictBridge-enabled device to the PictBridge port. See the documentation that came with your device to determine whether it is PictBridge-enabled.

## ***Cannot print from PictBridge-enabled devices***

Enable PictBridge printing on the device by selecting the correct USB mode. For more information, see the documentation that came with the device.

- 1 Disconnect the device.
- 2 Connect a PictBridge-enabled device to the PictBridge port. See the documentation that came with your device to determine whether it is PictBridge-enabled.

Use only the USB cable that came with the camera.

Remove the memory card from the printer.

## **Error messages**

- “Start errors” on page 48
- “Run errors” on page 48

### ***Start errors***

The printer was unable to start.

This includes the following errors:

- 0000
- 0001
- 0002
- 0003
- 1102

1 Press  to turn the printer off.

2 Press  to turn the printer on.

### ***Run errors***

This includes the following errors:

- 1003
- 0200
- 1201
- 1202

- 1203
- 1204
- 1206
- 1207
- 2301
- 4301

Press .

- 1 Press  to turn the printer off.
- 2 Disconnect the power supply cord from the wall outlet.
- 3 Gently remove the power supply from the printer.
- 4 Push firmly to reconnect the power supply to the printer.
- 5 Reinsert the power supply cord into the wall outlet.
- 6 Press .

Contact Lexmark Customer Support.

# Notices

---

## Electronic emission notices

### ***Federal Communications Commission (FCC) compliance information statement***

The Lexmark™ P450, type 4350 has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The FCC Class B limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your point of purchase or service representative for additional suggestions.

The manufacturer is not responsible for radio or television interference caused by using other than recommended cables or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate this equipment.

Any questions regarding this compliance information statement should be directed to:

Director of Lexmark Technology & Services  
Lexmark International, Inc.  
740 West New Circle Road  
Lexington, KY 40550  
(859) 232-3000

## ***Industry Canada compliance statement***

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

## ***Avis de conformité aux normes de l'industrie du Canada***

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## ***European Community (EC) directives conformity***

This product is in conformity with the protection requirements of EC Council directives 89/336/EEC and 73/23/EEC on the approximation and harmonization of the laws of the Member States relating to electromagnetic compatibility and safety of electrical equipment designed for use within certain voltage limits.

A declaration of conformity with the requirements of the directives has been signed by the Director of Manufacturing and Technical Support, Lexmark International, Inc., S.A., Boigny, France.

This product satisfies the Class B limits of EN 55022 and safety requirements of EN 60950.

## ***Japanese VCCI notice***

If this symbol appears on your product, the accompanying statement is applicable.



この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをしてください。

## ***Korean MIC statement***

If this symbol appears on your product, the accompanying statement is applicable.



이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

This equipment has undergone EMC registration as a household product. It can be used in any area, including a residential area.

## Noise emission levels

The following measurement was made in accordance with ISO 7779 and reported in conformance with ISO 9296.

1-meter average sound pressure, dBA	
Printing	44 dBA

## Waste from Electrical and Electronic Equipment (WEEE) directive



The WEEE logo signifies specific recycling programs and procedures for electronic products in countries of the European Union. We encourage the recycling of our products. If you have further questions about recycling options, visit the Lexmark Web site at [www.lexmark.com](http://www.lexmark.com) for your local sales office phone number.

## Power consumption

The following table documents the power consumption characteristics of the product.

Mode	Description	Power consumption
Printing	Product is generating hard copy output	10 W
Ready	Product is waiting for a print job	7 W
Power Saver	Product is in energy saving mode	5 W

The power consumption levels listed in the previous table represent time-averaged measurements. Instantaneous power draws may be substantially higher than the average.

## ***Power Saver***

This product is designed with an energy-saving mode called Power Saver. The Power Saver Mode saves energy by lowering power consumption during extended periods of inactivity.

The Power Saver Mode is automatically engaged after this product is not used for a specified period of time, called the Power Saver Timeout. The factory default Power Saver Timeout for this product is 20 minutes.

By using the printer configuration menus, the Power Saver Timeout can be modified between 10 minutes and 30 minutes. Setting the Power Saver Timeout to a low value reduces energy consumption, but may increase the response time of the product. Setting the Power Saver Timeout to a high value maintains a fast response, but uses more energy.

## ***Total energy usage***

It is sometimes helpful to calculate the total product energy usage. Since power consumption claims are provided in power units of Watts, the power consumption should be multiplied by the time the product spends in each mode in order to calculate energy usage. The total product energy usage is the sum of each mode's energy usage.

# Index

---

## A

- access cover 9
- adjusting print area 21
- Align Cartridge feature 39
- aligning print cartridge
  - from the control panel 39
- all photos
  - printing 19
- Antique Brown 24
- Antique Gray 24

## B

- B/W (black and white) 24
- black and white
  - printing 24
- Bluetooth 32
  - Mode 32
  - UAA 32
- brightness, adjusting 23
- buttons 11

## C

- camera
  - phone 32
- cannot print
  - from digital camera 48
  - from PictBridge 48
- cards
  - memory 27
- CD drive 9
  - using 30
- Clean Cartridge feature 39
- cleaning print nozzles
  - using control panel 39
- Color Effects feature 24
- control panel 9
  - display 9
  - using 11
- Copies setting 19
- Copy Photos 13
- cropping photos 21

## D

- Device Name 32

- digital camera
  - cannot print 48
- digital camera (PictBridge-enabled) 34
- display, control panel 9
- DPOF settings 34

## E

- emission notices 50
- enhancing an image 23
- error message
  - 1102 48
- error messages
  - troubleshooting 48

## F

- FCC notices 50
- finding
  - information 7
  - publications 7
  - Web site 8
- flash drives
  - see USB flash drives

## G

- general troubleshooting 43

## I

- Image Enhance feature 23
- incorrect language appears on display 44
- index page 17
- information
  - finding 7
- Ink Level feature 36
- ink level, checking 36
- inserting
  - USB flash drives 29
- installing print cartridge 38

## J

- jam, paper 46

## L

- language
  - incorrect 44

- light
  - CD drive 30
  - memory card 30
- loading
  - paper 15

## M

- memory card
  - CompactFlash Type 28
  - inserting 27
  - Memory Stick (MS) 28
  - Memory Stick Duo 28
  - Memory Stick PRO 28
  - Mini Secure Digital 28
  - MultiMedia Card (MMC) 28
  - Secure Digital (SD) 28
  - SmartMedia 28
  - xD Picture Card 28
- memory card cannot be inserted 47
- memory card is inserted
  - nothing happens 47
- memory card slots 9
- menus
  - Copy Photos 13
  - Print All / Index 13
  - Setup 13
  - Slide Show 13
  - View & Print 13
- menus, display
  - navigating 13
- misfeeds, paper 46
- moving print area 21
- multiple copies, printing 19

## N

- nothing happens when memory card is inserted 47
- notices 50, 52

## O

- ordering supplies 36

## P

- page does not print 44
- paper
  - loading 15
  - sizes 15
- paper exit tray 9
- paper jam 46

- paper misfeeds 46
- paper size
  - selecting 16
- Paper Size setting 16
- paper support 9
- Paper Type setting 16
- part number
  - cartridge 36
- personal digital assistant 32
- phone
  - camera 32
- photo storage device troubleshooting 47
- photos
  - adjusting print area 21
  - cropping 21
  - editing 21
  - previewing 17
  - printing from PictBridge-enabled camera 34
  - rotating 21
  - selecting 17
  - viewing slide show 26
  - zooming 21
- PictBridge
  - cannot print 48
- PictBridge port 9
- PictBridge-enabled camera
  - printing photos 34
- poor edge quality 46
- poor graphic quality 45
- poor quality 45
- power button 9
- power button not lit 43
- power connector 11
- previewing photos 17
- print
  - page does not 44
- Print All / Index 13
- print area
  - adjusting 21
  - moving 21
- print cartridge
  - aligning 39
  - cleaning 39
  - installing 38
  - removing 37
  - wiping 40
- print quality
  - selecting 19
- Print Quality setting 19
- printer does not feed paper 46

printing  
  all photos 19  
  black and white 24  
  index page 17  
  multiple copies 19  
  photos from PictBridge-enabled camera 34  
  test page 41  
  using DPOF settings 34  
publications  
  finding 7

## Q

quality  
  poor 45

## R

recycling Lexmark products 42  
red eye, removing 23  
Remove Red-Eye feature 23  
removing print cartridge 37  
rotating photos 21

## S

safety information 5  
selecting  
  paper size 16  
  photos 17  
  print quality 19  
selecting paper types 16  
Sepia Tone Print 24  
Setup 13  
Slide Show 13  
slide show, viewing 26  
supplies, ordering 36

## T

Test Page feature 41  
test page, printing 41  
troubleshooting  
  general 43  
  photo storage device 47  
troubleshooting error messages  
  0000-0003 48  
  0200 48  
  1003 48  
  1102 48  
  1200-1207 48  
  2301 48  
  4301 48

## U

USB flash drives  
  inserting 29  
USB port 11  
using  
  CD drive 30

## V

video output 26  
video output port 26  
View & Print 13

## W

Web site  
  finding 8

## Z

zooming photos 21