



LexPrint v2.0 User's Guide

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Getting started with LexPrint





What is LexPrint?

LexPrint is a free application that lets you print photos easily from your iPhone or iPod touch using any Lexmark printer connected to the same wireless network. It lets you print photos from the photo album or the photo you recently captured using your iPhone camera. You can also customize print settings from your mobile device.

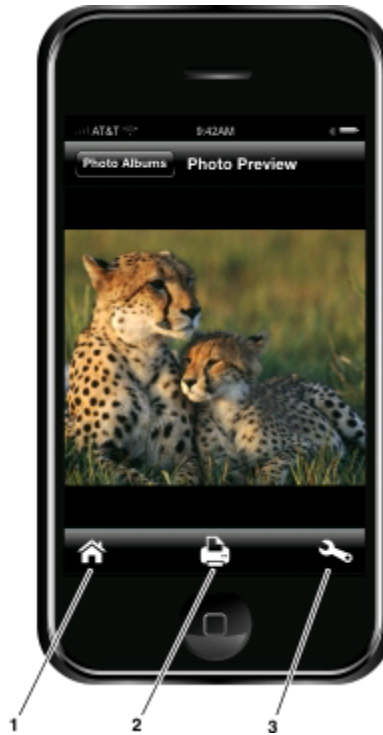
Depending on your Lexmark printer model, you may need to download the LexPrint Listener application from our Web site at www.lexmark.com/lexprint.




Using the LexPrint home screen



	Tap	To
1	Information icon 	View the LexPrint version number and copyright notices.
2	Photos 	View photos and select which photo to print.
3	Camera 	Take a picture and print it immediately. Note: This feature is available only for the iPhone. Make sure that the camera is enabled.
4	Settings 	Select your printer, print quality, print size, image scaling options, and number of copies.

Using the photo viewer



	Tap	To
1	Home icon 	Go to the LexPrint home screen.
2	Print icon 	Print the current photo based on your preferred settings.
3	Settings icon 	Select your printer, print quality, print size, image scaling options, and number of copies.

Minimum system requirements

Hardware

LexPrint

- iPhone, iPhone 3G, or iPhone 3GS with iPhone OS 2.2.1 or later
- iPod touch (first or second generation) with iPhone OS 2.2.1 or later

LexPrint Listener

- Windows
 - 800 MHz processor
 - 256MB RAM
 - 20MB available hard disk space
- Macintosh
 - PowerPC (G5, G4, or G3) or Intel processor
 - 256MB RAM
 - 20MB available hard disk space
- Linux
 - 500 MHz processor
 - 256MB RAM
 - 20MB available hard disk space

Supported operating systems

LexPrint Listener

- Windows
 - Windows 7
 - Windows Vista with Service Pack 2
 - Windows XP with Service Pack 1 or later
 - Windows 2000 with Service Pack 4
- Macintosh
 - Macintosh Intel OS X version 10.6.0 or later
 - Macintosh Intel OS X version 10.5.0 or later
 - Macintosh Intel OS X version 10.4.4 or later
 - Macintosh PowerPC OS X version 10.5.0 or later
 - Macintosh PowerPC OS X version 10.4.0 to version 10.4.3
- Linux
 - Linux Ubuntu 9.10, 9 LTS, 8.10 LTS, and 8
 - Linux OpenSUSE 11, 10.3, and 10.2
 - Linux Fedora 12, 11, and 10

Supported printers

LexPrint enables your iPhone or iPod touch to communicate with Lexmark printers found on the same network.

- For *any* Lexmark printer, your mobile device can send print jobs as long as the printer and **LexPrint Listener** are installed on the computer where the printer is connected.
- For select printer models that support Direct Image and Zeroconf or Bonjour, you can print directly from your mobile device to the printer without using LexPrint Listener.

To check if your printer is one of these models:

- 1 Check for Direct Image support:

Do either of the following:

- From the Lexmark Web site, find your printer model, and then click the **Specs** tab. If necessary, click **VIEW MORE SPECS**. Look for **Direct Image** under Printer Languages (Standard).
- From the printer control panel, navigate to either of the following:
 - **Settings > Image Menu**
 - **Settings > Print Settings > Image Menu**

2 Check for Zeroconf or Bonjour support:

Do either of the following:

- From the Lexmark Web site, find your printer model, and then click the **Specs** tab. If necessary, click **VIEW MORE SPECS**. Look for any of the following:
 - **Zero configuration** under TCP/IP Set of Application Services
 - **Bonjour** under Network Management Protocols
- From the printer control panel, navigate to:
Network/Ports > TCP/IP > Zero configuration name

Note: The application referred to as *Rendezvous* in Mac OS X version 10.3 is now called *Bonjour* by Apple Inc.

Installing LexPrint

Before installing LexPrint, make sure:

- Your iPhone or iPod touch meets the minimum system requirements.
- You have an active Internet connection (to download LexPrint).

Using your iPhone or iPod touch

- 1** Open the **App Store** on your mobile device.
- 2** In the Search field, type **LexPrint**, and then tap **Search**.
- 3** From the search results, tap **LexPrint > Free > Install**.
- 4** You may need to provide your iTunes account information to continue with the installation.

Using a computer

- 1** Connect your iPhone or iPod touch to the computer.
- 2** From the computer, open **iTunes**, and then click **iTunes Store**.
- 3** In the Search field, type **LexPrint**, and then press **Return** or **Enter**.
- 4** In the Application section, find LexPrint, and then click **GET APP**.
- 5** You may need to provide your iTunes account information to continue with the installation.
- 6** Wait for the download to complete.
- 7** From the left pane of the iTunes application, select your mobile device.

8 Click the **Applications** tab, and then select **Sync Applications**.

9 Select **LexPrint** from the list, and then click **Apply**.

Note: An error appears if your mobile device is not synchronized with the computer. To resolve the problem, follow the instructions on the computer screen or see the iTunes documentation. For more information, see the App Store how-to page at www.apple.com/iphone/how-to.

Installing LexPrint Listener

Before installing LexPrint Listener, make sure:

- Your computer meets the minimum system requirements.
- You have an active Internet connection (to download LexPrint Listener).

1 Go to the LexPrint Listener download page at www.lexmark.com/lexprint.

2 Select the correct LexPrint Listener software for your operating system, and then choose the option to download.

3 Follow the instructions on the computer screen to install LexPrint Listener.


Note: LexPrint Listener is a background application and does not appear on your computer screen.


To find out if LexPrint Listener is running:

- For Macintosh users, open the **Activity Monitor**, and then look for LexPrint Listener in the list of processes.
- For Windows users, open **Services** under Administrative Tools in the Control Panel, and then look for LexPrint Listener in the list of processes.
- For Linux users, open a terminal window, and then type `ps -aef | grep lexprintd`. Press **Enter**, and then look for `/usr/local/lexmark/lexprint/lexprintd` in the list of processes.

Selecting a printer

After installing LexPrint, you must select a printer to start printing from your iPhone or iPod touch.

1 From the home screen of your mobile device, tap .


2 From the LexPrint home screen, tap .

3 Tap **Printer**, and then select your printer from the list.

Note: LexPrint automatically refreshes the list of discovered printers. If your printer does not appear on the list, then see “Device cannot detect printer” on page 12.

Removing the software

Removing LexPrint from your iPhone or iPod touch

1 From the home screen of your mobile device, touch and hold .


2 Tap “x” on the upper left corner of the icon.

3 Tap **Delete**.

Removing LexPrint Listener in Macintosh

- 1 From the Finder, double-click the hard disk icon where the application is installed.
- 2 Navigate to:
Library > Printers > Lexmark > Utilities
- 3 Delete **LexPrint Listener**.
- 4 From the Finder, navigate to:
Library > LaunchAgents
- 5 Delete `com.lexmark.lexprint.plist`.
The application is completely removed the next time you restart your computer.

Removing LexPrint Listener in Windows

- 1 Click  or **Start**.
- 2 Click **All Programs** or **Programs**, and then select the printer program folder from the list.
Note: LexPrint Listener files are created in the printer program folder during installation.
- 3 Select **Lexmark LexPrint Uninstall**.
- 4 Once the uninstall process is complete, restart your computer.
Note: To check if the application was successfully removed, access the printer program folder and look for LexPrint Listener.

Removing LexPrint Listener in Linux



- 1 Open a terminal window.
- 2 Remove LexPrint Listener:
 - If you are an Ubuntu user, then type `sudo dpkg -r lexmark-lexprint-listener`.
 - If you are a Fedora or an OpenSUSE user, then type `rpm -e lexmark-lexprint-listener`.
- 3 Press **Enter**.

Printing

Before running LexPrint, make sure:


- The printer, computer, and iPhone or iPod touch are on the same network.
- LexPrint Listener is installed on the computer where the printer is connected.
- Your printer supports Direct Image and Zeroconf or Bonjour, if you did not install LexPrint Listener.
- Your printer is in shared and ready state, if it is connected to a Macintosh computer.

Printing saved photos from your mobile photo album

- 1 From the LexPrint home screen, tap , and then select a photo album.
- 2 Tap the photo you want to print to load it onto the Photo Preview screen.
If you want to customize your print settings, then tap .



Notes:

- With WYSIWYG printing, you can print an exact copy of the image you see on your Photo Preview screen.
- Using two fingers, pinch the photo to zoom in or zoom out on the image.
- To pan across an enlarged image, use a finger to swipe vertically or horizontally across the screen.
- Tap anywhere on the image to view the photo in full screen.
- You can print only one photo at a time.

- 3 To print the photo, shake your mobile phone or tap .


Note: The print job may take a while to process.

Printing photos directly from your iPhone camera

- 1 From the LexPrint home screen, tap .
- 2 Tap  to capture an image.


Notes:

- Tapping Retake after capturing an image brings you back to the capture screen and discards the previously taken photo.
- Tapping Cancel brings you back to the LexPrint main screen.

- 3 Tap **Use** to load the snapshot onto the Photo Preview screen.
If you want to customize your print settings, then tap .


Notes:

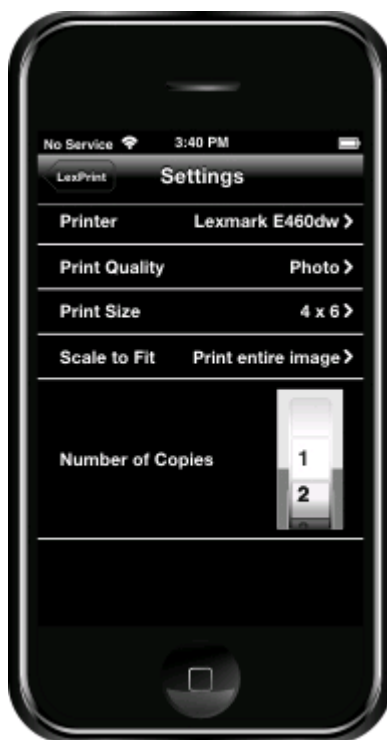
- With WYSIWYG printing, you can print an exact copy of the image you see on your Photo Preview screen.
- Using two fingers, pinch the photo to zoom in or zoom out on the image.
- To pan across an enlarged image, use a finger to swipe vertically or horizontally across the screen.
- Tap anywhere on the image to view the photo in full screen.
- LexPrint automatically saves your photo to the Camera Roll if you stay on the Photo Preview screen for more than seven seconds.

4 To print the photo, shake your mobile phone or tap .

Note: The print job may take a while to process.

Customizing print settings

- 1 From the LexPrint home screen, tap .
- 2 Tap an item to enter the necessary information. The selected item in each list appears with a ✓.



- **Printer**—Select the printer from the list.

Notes:

- Printers connected to Macintosh computers may need to be in shared and ready state for LexPrint to detect them.
- LexPrint automatically refreshes the list of discovered printers. If your printer does not appear on the list, then see “Device cannot detect printer” on page 12.

- **Print Quality**—Select Draft, Normal, or Photo. The default print quality is Photo.
- **Print Size**—Select the desired size of the printed image. The default size is 4 x 6 inches.

- **Scale to Fit**—Select image scaling options. The default option is “Print entire image.”
 - Print entire image—Resize the image so that the longest edge of the image fits the longest edge of the desired print size.

Note: When printing to laser printers, the image appears on the top left corner of the page by default.
 - Fill entire page—Resize the image so that the shortest edge of the image fits the shortest edge of the desired print size.

Note: When printing to laser printers, white spaces appear on the edges of the page.
- **Number of Copies**—Select a number from 1 to 99. The default number of copies is 1.

Troubleshooting

Before you troubleshoot

Use this checklist to solve most LexPrint problems:


- Make sure all your devices meet the minimum system requirements.
- Make sure the printer, computer, access point (wireless router), and iPhone or iPod touch are turned on.
- Make sure the printer, computer, and the iPhone or iPod touch device are connected to the same network.
- Make sure the printer has been set up and installed on your computer.
- If your printer is connected to a Macintosh computer, then make sure the printer is in shared and ready state.
- From the Settings menu screen in LexPrint, make sure the printer is selected on the Printer list.

LexPrint did not install or does not respond


MAKE SURE THAT YOUR MOBILE DEVICE AND COMPUTER MEET THE MINIMUM SYSTEM REQUIREMENTS

For more information, see "Minimum system requirements" on page 4.

CHECK THE INTERNET CONNECTION

Once you begin downloading the application,  appears on your home screen and shows the status of the download and installation. If the download is interrupted, then it will resume the next time your device has an Internet connection.

REMOVE AND REINSTALL THE APPLICATION

If you encountered problems while installing, or if  does not respond when you tap it, then try removing and reinstalling the application.

Device cannot detect printer

If the "Before you troubleshoot" checklist does not solve the problem, then try one or more of the following:

MAKE SURE YOUR IPHONE OR IPOD TOUCH IS CONNECTED TO A WIRELESS NETWORK

Check if the wireless feature is turned on. See the documentation that came with your mobile device for configuring the wireless settings.

CHECK THE ADVANCED SECURITY SETTINGS OF YOUR ACCESS POINT (WIRELESS ROUTER)

- If you are using MAC address filtering to limit access to your wireless network, then you must add the MAC addresses of your iPhone, iPod touch, printer, or computer to the list of addresses allowed to connect to the access point. If you are using an AirPort base station, then the MAC address may be referred to as *AirPort ID*, and MAC address filtering may be accessed through *MAC Address Access Control*.
- If the wireless access point is set to issue a limited number of IP addresses, then you must change this so that your devices can be added.

Note: If you do not know how to make these changes, then see the documentation that came with the access point, or contact your system support person.

CHECK THE PRINTER NICKNAME

Make sure you are connecting to the right printer. A printer nickname is a unique name that you assign to your printer so you can identify it on the network.

MOVE THE DEVICES CLOSER TO THE ACCESS POINT

The range of your wireless network depends on many factors, including the abilities of your access point and network adapters. If you are having trouble detecting your printer, then try placing the devices no more than 100 feet apart.

IF YOU ARE TRYING TO CONNECT TO THE PRINTER THROUGH LEXPRINT LISTENER

- Make sure LexPrint Listener is installed on your computer. For more information, see “Installing LexPrint Listener” on page 7.
- Make sure your firewall application is not blocking LexPrint Listener:

For Macintosh users

- 1 From the Apple menu, choose **System Preferences**.
- 2 Click **Sharing** or **Security**, and then click **Firewall**.
- 3 Configure the firewall settings to allow LexPrint Listener to run on your computer.

For Windows and Linux users

- 1 Open your firewall application, and then open the UDP 9195 and TCP 9195 ports.
 - 2 Make sure LexPrint Listener is allowed to run on your computer.
- If your printer is connected to a Macintosh computer, then make sure the printer is in shared and ready state. For more information, see the documentation that came with your operating system.
 - If your printer is connected to the computer through a USB cable, then check the cable for damage or loose connections, and make sure the USB ports are working.

- Make sure the computer and iPhone or iPod touch are connected to the same network. The mobile device and the access point should be on the same subnet. For more information, contact your system support person.
 - If there are other computers or resources on your wireless network, then check to see if you can access them from your computer.
 - If the computer is connected to a wireless network, then check the network name or SSID of your access point, and compare it with the SSID of your mobile device and printer. If the SSIDs do not match, then set all devices to connect to only one SSID.
 - If the computer is connected to an Ethernet network, then check for cable damage or loose connections, and make sure the Ethernet ports are working.

IF YOU ARE TRYING TO CONNECT TO THE PRINTER DIRECTLY FROM YOUR MOBILE DEVICE

- Make sure your printer supports Direct Image and Zeroconf or Bonjour. For more information, see “Supported printers” on page 5.
- Make sure the mobile device and the access point are on the same subnet. For more information, contact your system support person.
 - If the printer is connected to a wireless network, then check the network name or SSID of your access point, and compare it with the SSID of your mobile device and printer. If the SSIDs do not match, then set all devices to connect to only one SSID.
 - If the printer is connected to an Ethernet network, then check the Ethernet cable for damage or loose connections, and make sure the Ethernet ports are working.

Print job does not print

If the "Before you troubleshoot" checklist does not solve the problem, then try one or more of the following:

CHECK THE WIRELESS CONNECTION

MAKE SURE THE PRINTER AND COMPUTER ARE NOT IN ERROR STATE

Check the printer and the computer for any errors. Printer errors must be resolved before a print job is accommodated. For more information, see your printer *User's Guide*.

Printer is printing random characters

MAKE SURE THE LEXPRINT LISTENER APPLICATION IS INSTALLED ON YOUR COMPUTER

LexPrint can communicate with any printer as long as it is in the printer queue of the computer where the LexPrint Listener application is installed.


IF YOU ARE PRINTING WITHOUT A COMPUTER, THEN MAKE SURE YOUR PRINTER HAS DIRECT IMAGE AND ZEROCONF OR BONJOUR FEATURES

LexPrint is capable of printing photos directly from a mobile device as long as your printer supports Direct Image printing and Zeroconf or Bonjour. For more information, see "Supported printers" on page 5.

Printer is busy or does not respond

If the "Before you troubleshoot" checklist does not solve the problem, then try one or more of the following:

MAKE SURE THE PRINTER IS NOT IN POWER SAVER MODE

If the power light is blinking on and off slowly, then the printer is in Power Saver mode. Press  to wake up the printer.


If the printer will not come out of Power Saver mode, then reset the power:

- 1 Unplug the power cord from the wall outlet, and then wait 10 seconds.
- 2 Insert the power cord into the wall outlet, and then turn on the printer.

If this problem persists, then check our Web site for updates for your printer software or firmware.

RECONNECT THE PRINTER POWER SUPPLY

- 1 Turn off the printer.

Note: Make sure the printer is not in Power Saver mode. Press and hold  for three seconds to turn off the printer.

- 2 Unplug the power cord from the wall outlet, and then pull out the power cord from the power supply.
- 3 Remove the power supply from the printer, and then reinsert it.

The location of the power supply may vary depending on your printer model. For more information, see your printer *User's Guide*.

- 4 Reconnect the power cord into the power supply, and then plug the power cord into the wall outlet.
- 5 Turn on the printer.

CHECK FOR OTHER PRINT JOBS IN THE PRINT QUEUE

If there are other print jobs in the queue, then you can either wait for these jobs to be completed first or cancel them before trying to print again.

MAKE SURE THE PRINTER IS NOT IN ERROR STATE

Printer errors must be resolved before a print job is accommodated. For more information, see your printer *User's Guide*.

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Edition notice

April 2010

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For Lexmark technical support, visit support.lexmark.com.

For information on supplies and downloads, visit www.lexmark.com.

If you don't have access to the Internet, you can contact Lexmark by mail:

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This product complies 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.

Any questions on this statement should be directed to:

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

For additional compliance information, see the online documentation.

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