

# Wirth Consulting

## B2B Digital Imaging Product Evaluation

Wednesday, July 15, 2009 11:37:51 AM

# WYSK

"What You Should Know"

<b>Make</b>	Lexmark	<b>Model</b>	Z1420
<b>Functions</b>	Print	<b>Imaging Technology</b>	Ink-jet
<b>Classification</b> Color Printers Under \$250			



Lexmark's Z1420 is a compact color printer that features wireless network connectivity. While most printers in this segment utilize four-color printing (black, cyan, magenta, and black) it can be equipped with an ink cartridge for optional six-color printing. Adding two colors increases the available color gamut, and results in enhanced color imaging, making it particularly suitable for printing photos. Another capability that makes it especially suitable for producing photos is the ability to produce borderless prints in sizes from 4" x 6" up to 8.5" x 14".



## Specifications

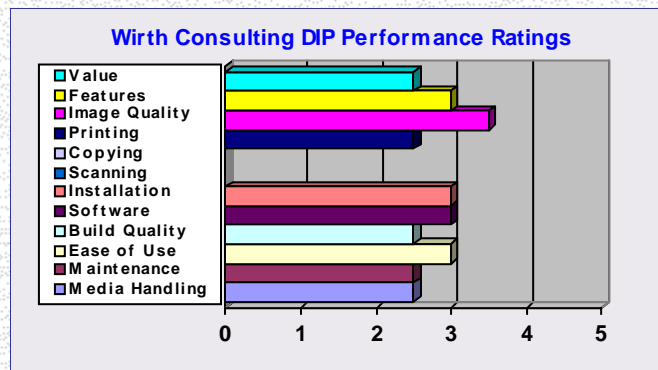
Monthly Duty Cycle	3,000	Max Media Width (inches)	8.5	215.90	mm	Price	\$79.99	€57.30
BW/Color Print Speed (PPM)	24/18	Max Media Length (inches)	14.0	355.60	mm	Duplex		
Max. Print Resolution (DPI)	4800x1200	Max Media Wt. (bond, lbs.)			gsm	Print		
Standard Memory (MB)		Height (inches)	4.75	120.65	mm	Network		
Std Media Capacity (sheets)	100	Width (inches)	18.07	458.98	mm	Scan		
Max Media Capacity (sheets)	100	Depth (inches)	7.82	198.63	mm	Doc Feeder		
Power Consumption (watts)	23	Weight (pounds)	6.0	2.72	kg	Full System	\$79.99	€57.30

## Feature Checklist

<b>Value Add</b>	<b>Print</b>	<b>Scan</b>	<b>Copy</b>
USB Convenience Port <input type="checkbox"/>	Duplex Printing <input type="checkbox"/>	Color Scanning <input type="checkbox"/>	Duplex Document Feeder <input type="checkbox"/>
Scanner <input type="checkbox"/>	Network Printing <input checked="" type="checkbox"/>	Network Scanning <input type="checkbox"/>	<b>Ease of Use</b>
Walk-Up Fax <input type="checkbox"/>	Microsoft Windows <input checked="" type="checkbox"/>	<b>Software</b>	Graphic Display <input type="checkbox"/>
LAN Fax <input type="checkbox"/>	Apple Mac <input checked="" type="checkbox"/>	Desktop Software <input checked="" type="checkbox"/>	Touch Screen <input type="checkbox"/>
<b>Image Quality</b>	Linux <input type="checkbox"/>	Web Utilities <input checked="" type="checkbox"/>	Navigation Keys <input type="checkbox"/>
BW Office IQ <input checked="" type="checkbox"/>	GDI Printing <input checked="" type="checkbox"/>	<b>Media Handling</b>	<b>Maintenance</b>
Color Office IQ <input checked="" type="checkbox"/>	PCL <input type="checkbox"/>	Feeds Index Stock <input type="checkbox"/>	All-in-One Toner Cartridge <input type="checkbox"/>
Professional IQ <input type="checkbox"/>	PostScript <input type="checkbox"/>	Max Weight from all Sources <input type="checkbox"/>	<b>Finishing</b>
Photographic IQ <input type="checkbox"/>	Adobe PostScript <input type="checkbox"/>	Holds Full Ream of Media <input type="checkbox"/>	Finishing <input type="checkbox"/>

## Wirth Consulting Ratings\* \*On a scale of 0-5, with 5 being the best

Value	2.5
Features	3.0
Image Quality	3.5
Printing	2.5
Copying	
Scanning	



3.0	Installation
3.0	Software
2.5	Build Quality
3.0	Ease of Use
2.5	Maintenance
2.5	Media Handling

## Ratings Scoreboard\* \*Highest possible scores: Overall, 60; Copier, 45; Printer, 50; Scanner, 40; Usability, 25

Overall Score	28.0	Copier Score		Printer Score	28.0	Scanner Score		Usability Score	14.0
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### Consumables Pricing and Yields\* \*All supply yields are based on an original area coverage of 5% per color

Black Ink/Toner Price	\$27.99	Magenta Ink/Toner Yield (pages)		Maintenance Kit Price	
Black Ink/Toner Yield	510	Yellow Ink/Toner Price		Maintenance Kit Yield	
Cyan Ink/Toner Price		Yellow Ink/Toner Yield		Other Type	
Cyan Ink/Toner Yield		Multicolor Ink Price	\$34.99	Other Price	
Magenta Ink/Toner Price		Multicolor Ink Yield	560	Other Yield	
Black Consumables Cost per Page		<b>\$0.0549</b>		Color Consumables Cost per Page	
				<b>\$0.1174</b>	

### Total Cost Per Page\*

### Total Cost of Ownership\*\*

\*Cost Per Page and \*\*Total Cost of Ownership include the purchase price depreciated over a five-year period. \*\*\*Mixed=Based on print usage of 66% Black and 33% Color

Monthly Volume	Black CPP	Color CPP	Monthly Volume	Black TCO	Color TCO	***Mixed TCO
50 pages	\$0.082	\$0.144	50 pages	\$244.64	\$432.08	\$304.05
100 pages	\$0.068	\$0.131	100 pages	\$409.28	\$784.18	\$528.91
250 pages	\$0.060	\$0.123	250 pages	\$903.23	\$1,840.46	\$1,203.48
500 pages	\$0.058	\$0.120	500 pages	\$1,726.46	\$1,840.46	\$1,746.81
1,000 pages	\$0.056	\$0.119	1,000 pages	\$3,372.93	\$7,121.86	\$4,576.35
2,000 pages	\$0.056	\$0.118	2,000 pages	\$6,665.87	\$14,163.73	\$9,073.51
3,000 pages	\$0.055	\$0.118	3,000 pages	\$9,958.81	\$21,205.60	\$13,570.66
4,000 pages	\$0.055	\$0.118	4,000 pages	\$13,251.75	\$28,247.47	\$18,067.82
5,000 pages	\$0.055	\$0.118	5,000 pages	\$16,544.70	\$35,289.34	\$22,564.98

### Wirth Consulting Commentary

#### Strengths

- Very low purchase price for a network printer (\$79.99).
- Standard 802.11g/b wireless printing (compatible with 802.11n); USB cable included for USB 2.0 port for direction connection to computer workstations.
- Optional 6-color printing; with 6-color printing, two additional ink colors are used, providing enhanced color images.
- Lexmark's Web Toolbar for printing printer-friendly Web pages (without large blank spaces, blank pages, etc.).
- Optional Fast Ethernet, MarkNet Gigabit and Fast Ethernet network interfaces for faster transmission of files.
- Lexmark's Imaging Studio software for editing photos.
- Produce borderless prints in sizes from 4" x 6" up to 8.5" x 14".
- Print on plain paper, card stock, glossy paper, recycled paper, iron-on transfer sheets, etc.

#### Limitations

- No automatic duplexing standard or optional.
- All-in-one color print cartridge (users must replace all colors instead of just one color, even though other ink colors may not be depleted).
- Relatively high B/W and color consumables' cost per page.
- Relatively high Total Cost of Ownership.

#### Notes

Rated print speed is in draft mode.

#### Best Use

For small workgroups and home offices for very low-volume B/W and color printing applications, and where users may require or wish six-color printing for enhanced color imaging, and who do not require automatic duplexing. With its low acquisition cost, it will be especially appropriate for very budget-conscious users; however, users should also consider its relatively high TCO.