

Wirth Consulting

B2B Digital Imaging Product Evaluation

Thursday, April 09, 2009 1:24:43 PM

WYSK

"What You Should Know"

Make	Hewlett-Packard	Model	Color LJ CM2320nf MFP
Functions	Print/Copy/Scan/Fax	Imaging Technology	Laser
Classification Color MFPs From \$500 To \$750			



HP's Color LaserJet CM2320nf MFP sits in the lower mid-range of HP color LaserJet MFP family. With its 450 MHz CPU, 21 ppm print speed and 40,000-page maximum monthly duty cycle, it's capable of taking on somewhat more larger workloads than entry-level MFPs. And while it doesn't incorporate a touch screen, it does incorporate a color graphic display that will make configuring job settings easier. Administrators can also password-protect color copying, to reduce unauthorized color copying and costs. Maximum flatbed scan size is 8.5"x11.7".



Specifications

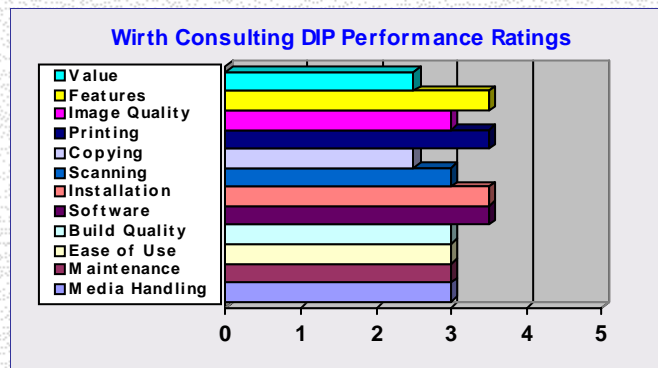
Monthly Duty Cycle	40,000	Max Media Width (inches)	8.5	215.9	mm	Price	\$699.99	€502.59
BW/Color Print Speed (PPM)	21/21	Max Media Length (inches)	14.0	355.6	mm	Duplex		
Max. Print Resolution (DPI)	600x600	Max Media Wt. (bond, lbs.)	58.0	195.8	gsm	Print		
Standard Memory (MB)	160.00	Height (inches)	22.0	558.8	mm	Network		
Std Media Capacity (sheets)	300	Width (inches)	20.0	508.0	mm	Scan		
Max Media Capacity (sheets)	550	Depth (inches)	19.0	482.6	mm	Doc Feeder		
Power Consumption (watts)	460W	Weight (pounds)	65.0	29.5	kg	Full System	\$699.99	€502.59

Feature Checklist

Value Add	Print	Scan	Copy
USB Convenience Port <input type="checkbox"/>	Duplex Printing <input type="checkbox"/>	Color Scanning <input checked="" type="checkbox"/>	Duplex Document Feeder <input type="checkbox"/>
Scanner <input checked="" type="checkbox"/>	Network Printing <input checked="" type="checkbox"/>	Network Scanning <input checked="" type="checkbox"/>	Ease of Use
Walk-Up Fax <input checked="" type="checkbox"/>	Microsoft Windows <input checked="" type="checkbox"/>	Software	Graphic Display <input checked="" type="checkbox"/>
LAN Fax <input type="checkbox"/>	Apple Mac <input checked="" type="checkbox"/>	Desktop Software <input checked="" type="checkbox"/>	Touch Screen <input type="checkbox"/>
Image Quality	Linux <input checked="" type="checkbox"/>	Web Utilities <input checked="" type="checkbox"/>	Navigation Keys <input checked="" type="checkbox"/>
BW Office IQ <input checked="" type="checkbox"/>	GDI Printing <input type="checkbox"/>	Media Handling	Maintenance
Color Office IQ <input checked="" type="checkbox"/>	PCL <input checked="" type="checkbox"/>	Feeds Index Stock <input checked="" type="checkbox"/>	All-in-One Toner Cartridge <input checked="" type="checkbox"/>
Professional IQ <input type="checkbox"/>	PostScript <input checked="" type="checkbox"/>	Max Weight from all Sources <input checked="" type="checkbox"/>	Finishing
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	3.5
Image Quality	3.0
Printing	3.5
Copying	2.5
Scanning	3.0



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

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

Overall Score	37.0	Copier Score	27.0	Printer Score	31.5	Scanner Score	25.0	Usability Score	16.0
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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	\$122.99	Magenta Ink/Toner Yield (pages)	2,800	Maintenance Kit Price	
Black Ink/Toner Yield	3,500	Yellow Ink/Toner Price	\$120.99	Maintenance Kit Yield	
Cyan Ink/Toner Price	\$120.99	Yellow Ink/Toner Yield	2,800	Other Type	
Cyan Ink/Toner Yield	2,800	Multicolor Ink Price		Other Price	
Magenta Ink/Toner Price	\$120.99	Multicolor Ink Yield		Other Yield	
Black Consumables Cost per Page		\$0.0351	Color Consumables Cost per Page		\$0.1648

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	\$0.268	\$0.398	50 pages	\$805.41	\$1,194.31	\$925.69
100 pages	\$0.152	\$0.281	100 pages	\$910.83	\$1,688.62	\$1,158.39
250 pages	\$0.082	\$0.211	250 pages	\$1,227.09	\$3,171.57	\$1,856.50
500 pages	\$0.058	\$0.188	500 pages	\$1,754.19	\$3,171.57	\$2,204.38
1,000 pages	\$0.047	\$0.176	1,000 pages	\$2,808.39	\$10,586.32	\$5,347.02
2,000 pages	\$0.041	\$0.171	2,000 pages	\$4,916.79	\$20,472.65	\$10,001.05
3,000 pages	\$0.039	\$0.169	3,000 pages	\$7,025.19	\$30,358.98	\$14,655.09
4,000 pages	\$0.038	\$0.168	4,000 pages	\$9,133.59	\$40,245.30	\$19,309.12
5,000 pages	\$0.037	\$0.167	5,000 pages	\$11,241.99	\$50,131.63	\$23,963.15

Wirth Consulting Commentary

Strengths

- 160 MB memory can be expanded to 416 MB.
- Ethernet/Fast Ethernet network interface.
- HP Toolbox for device-monitoring for clients.
- Capable Web Jetadmin network management.
- HP Easy Printer Care software to deploy, monitor and maintain up to 20 HP network devices.
- Password-protect color-copying capability.

Limitations

- Color consumables' cost per page is relatively high at 16.4 cents.

Best Use

Small businesses and workgroups, and especially enterprises, that require a compact, highly manageable, relatively low-cost MFP with color print/copy capability, as well as scan and fax, and may also require advanced printer-management features and where relatively higher Cost Per Page and Total Cost of Ownership is not a factor.