Wirth Consulting

B2B Digital Imaging Product Evaluation

Thursday, April 09, 2009 1:27:52 PM

W Y S K

"What You Should Know"

Make	Brother International	**Model**	MFC-9450CDW
Functions	Print/Copy/Scan/Fax	**Imaging Technology**	Laser
Classification	Color MFPs From $500 To $750		

The MFC-9450CDW is built on a similar platform as the MFC-9440CN, but adds duplexing (but at a higher price--$649.99 versus $599). It incorporates an ADF, not a duplexing document feeder for two-sided scanning. Another similar model, the MFC-9840CDW, adds legal-size scanning via the platen, while this model is limited to 8.5"x11". Users can print, copy, scan and fax in color. Features of note include large 800-sheet maximum paper capacity, plus the system supports LDAP so that users can securely access e-mail and fax addresses stored on the network.

Specifications

Monthly Duty Cycle	35,000	Max Media Width (inches)	8.5	215.9	mm	Price	$649.99	€466.69
BW/Color Print Speed (PPM)	21/21	Max Media Length (inches)	14.0	355.6	mm	Duplex		
Max. Print Resolution (DPI)	2,400x600	Max Media Wt. (bond, lbs.)	28.0	94.5	gsm	Print		
Standard Memory (MB)	64.00	Height (inches)	19.0	482.6	mm	Network		
Std Media Capacity (sheets)	300	Width (inches)	17.0	431.8	mm	Scan		
Max Media Capacity (sheets)	800	Depth (inches)	19.0	482.6	mm	Doc Feeder		
Power Consumption (watts)	495W	Weight (pounds)	73.0	33.1	kg	Full System	**$649.99**	**€466.69**

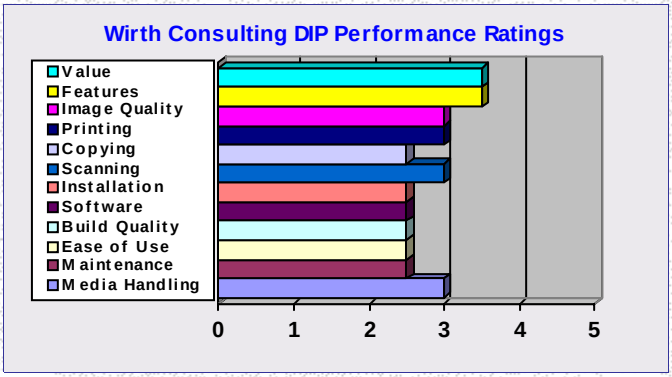
Feature Checklist

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

Wirth Consulting Ratings*

*On a scale of 0-5, with 5 being the best

Value	3.5
Features	3.5
Image Quality	3.0
Printing	3.0
Copying	2.5
Scanning	3.0



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

Ratings Scoreboard*

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

Overall Score	34.0	**Copier Score**	25.5	**Printer Score**	28.5	**Scanner Score**	23.0	**Usability Score**	12.5

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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	$69.99	Magenta Ink/Toner Yield (pages)	4,000	Maintenance Kit Price	$127.98
Black Ink/Toner Yield	5,000	Yellow Ink/Toner Price	$92.99	Maintenance Kit Yield	70,000
Cyan Ink/Toner Price	$92.99	Yellow Ink/Toner Yield	4,000	Other Type	Drum
Cyan Ink/Toner Yield	4,000	Multicolor Ink Price		Other Price	$139.00
Magenta Ink/Toner Price	$92.99	Multicolor Ink Yield		Other Yield	17,000

Black Consumables Cost per Page **$0.0222** Color Consumables Cost per Page **$0.0956**

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	$0.239	$0.312	50 pages	$711.03	$931.23	$776.58
100 pages	$0.131	$0.204	100 pages	$772.07	$1,212.46	$909.68
250 pages	$0.066	$0.139	250 pages	$955.18	$2,056.17	$1,308.96
500 pages	$0.044	$0.117	500 pages	$1,260.38	$3,462.35	$1,974.42
1,000 pages	$0.033	$0.106	1,000 pages	$1,870.76	$6,274.71	$3,305.36
2,000 pages	$0.028	$0.101	2,000 pages	$3,310.93	$12,118.82	$6,184.42
3,000 pages	$0.026	$0.099	3,000 pages	$4,641.39	$17,853.23	$8,954.89
4,000 pages	$0.025	$0.098	4,000 pages	$5,971.86	$23,587.64	$11,725.35
5,000 pages	$0.024	$0.098	5,000 pages	$7,302.33	$29,322.05	$14,495.82

Wirth Consulting Commentary

Strengths

•Low B&W and color consumables' cost per page of 2.2 and 9.3 cents respectively.
•64 MB memory can be expanded up to 576 MB.
•Maximum paper capacity of 800 sheets.
•Scan to and print from USB memory cards and directly print photos captured with PictBridge-compatible cameras.
•Scansoft PaperPort SE with OCR for Microsoft Windows and Presto Page Manager for Apple Mac scanning software.
•Scan to e-mail, OCR, file, FTP and USB memory cards.
•Capable BRAdmin network management for Microsoft Windows and Apple Mac.
•Memory Security, Setting Lock and Secure Printing.

NOTE: Print speed is rated at up 21 ppm in both B&W and color, and at up to 17 ppm in both B&W and color in copy mode.

Limitations

Wirth Consulting has determined that this device does not have any notable limitations and should provide good functionality.

Best Use

Small businesses and workgroups that require a compact, capable, relatively low-cost MFP with color print/copy capability, as well as scan and fax. Also suitable for home use. The system's low consumables' cost per page and low Total Cost of Ownership is especially an advantage in this price-sensitive segment.

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