Wirth Consulting

B2B Digital Imaging Product Evaluation

Friday, September 04, 2009 12:15:38 PM

WYSK

"What You Should Know"

Well Worth Consideration!

Make	Konica Minolta	**Model**	magicolor 4690MF
Functions	Print/Copy/Scan/Fax	**Imaging Technology**	Laser
Classification	Color MFPs From $750 To $1,000		

The magicolor 4690MF incorporates color network print, copy and network scan at rated speeds of up to 25 ppm (in both B/W and color), as well as Super Group 3 fax and TWAIN/WIA "pull" scanning. Its Emperon-based print controller is based on a 400 MHz CPU, and the system also features Konica Minolta's capable PageScope printer-management suite.

Specifications

Monthly Duty Cycle	120,000	Max Media Width (inches)	8.5	215.90	mm	Price	$999.00	€715.68
BW/Color Print Speed (PPM)	25/25	Max Media Length (inches)	14.0	355.60	mm	Duplex		
Max. Print Resolution (DPI)	600x600	Max Media Wt. (bond, lbs.)	53.0	178.88	gsm	Print		
Standard Memory (MB)	256.00	Height (inches)	23.00	584.20	mm	Network		
Std Media Capacity (sheets)	350	Width (inches)	21.00	533.40	mm	Scan		
Max Media Capacity (sheets)	850	Depth (inches)	23.00	584.20	mm	Doc Feeder		
Power Consumption (watts)	NA	Weight (pounds)	121.00	54.88	kg	Full System	**$999.00**	**€715.68**

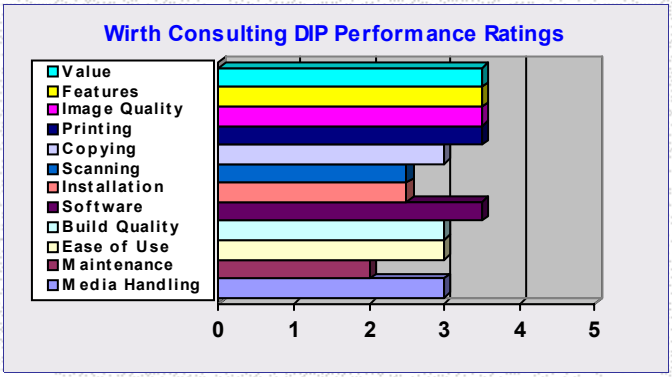
Feature Checklist

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	3.5
Printing	3.5
Copying	3.0
Scanning	2.5



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

Ratings Scoreboard*

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

Overall Score	**36.5**	**Copier Score**	**27.0**	**Printer Score**	**31.0**	**Scanner Score**	**25.0**	**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	$186.00	Magenta Ink/Toner Yield (pages)	8,000	Maintenance Kit Price	
Black Ink/Toner Yield	8,000	Yellow Ink/Toner Price	$186.00	Maintenance Kit Yield	
Cyan Ink/Toner Price	$186.00	Yellow Ink/Toner Yield	8,000	Other Type	Imaging Drums
Cyan Ink/Toner Yield	8,000	Multicolor Ink Price		Other Price	$784.00
Magenta Ink/Toner Price	$186.00	Multicolor Ink Yield		Other Yield	120,000

Black Consumables Cost per Page **$0.0298** Color Consumables Cost per Page **$0.0995**

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	**$0.363**	**$0.433**	50 pages	**$1,088.35**	**$1,297.60**	**$1,146.52**
100 pages	**$0.196**	**$0.266**	100 pages	**$1,177.70**	**$1,596.20**	**$1,304.03**
250 pages	**$0.096**	**$0.166**	250 pages	**$1,445.75**	**$2,492.00**	**$1,776.56**
500 pages	**$0.063**	**$0.133**	500 pages	**$1,892.50**	**$2,492.00**	**$2,071.41**
1,000 pages	**$0.046**	**$0.116**	1,000 pages	**$2,786.00**	**$6,971.00**	**$4,139.19**
2,000 pages	**$0.038**	**$0.108**	2,000 pages	**$4,573.00**	**$12,943.00**	**$7,289.37**
3,000 pages	**$0.035**	**$0.105**	3,000 pages	**$6,360.00**	**$18,915.00**	**$10,439.55**
4,000 pages	**$0.034**	**$0.104**	4,000 pages	**$8,147.00**	**$24,887.00**	**$13,589.73**
5,000 pages	**$0.033**	**$0.103**	5,000 pages	**$9,934.00**	**$30,859.00**	**$16,739.91**

Wirth Consulting Commentary

Strengths

- Accepts heavier media (up to 110 lb. index via bypass tray).
- Capable PageScope management suite, and LinkMagic scanning utility; optional PageScope WorkWare scanning utility.
- Network scanning as well as TWAIN and WIA scan drivers.
- Enhanced Automatic Image Density Control for enhancing color image quality.
- 400 MHz Pentium II CPU.
- Relatively low color cost per page of 9.9 cents and relatively low total cost of ownership (TCO) for color.

Limitations

- Multi-component consumables system, as the device utilizes four toner cartridge (one for each color - CYMK) and four imaging drums (one for each color - CYMK).
- Waste-toner box must be periodically emptied.
- No PostScript print driver.

Notes

Four imaging drums are required (CYMK), each of which are rated to yield up to 30,000 pages.

Best Use

Home offices and small offices and workgroups that have B/W network print and copy applications on letter- and legal-size media, as well as B&W/color-scanning and walk-up fax applications, and also have frequent color printing and copying applications that require business-color image quality. Relatively low total cost of ownership for color output will make it appropriate for color applications.

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