

Wirth Consulting

B2B Digital Imaging Product Evaluation

Tuesday, October 20, 2009 2:18:40 PM

WYSK

"What You Should Know"



Make	Konica Minolta	Model	magicolor 1690MF
Functions	Print/Copy/Scan/Fax	Imaging Technology	Laser
Classification	Color Duplex MFPs Under \$500		

Part of Konica Minolta's magicolor family, the magicolor 1690MF uses color laser-imaging technology. Color print, copy and print, as well as B/W fax, is standard, as is wired 10/100BaseTX Ethernet network connectivity and a 35-sheet simplex automatic document feeder. Note that this is the only color MFP that uses laser imaging in this category. Duplexing is optional (\$99), while it is standard with other systems in this category.



Specifications

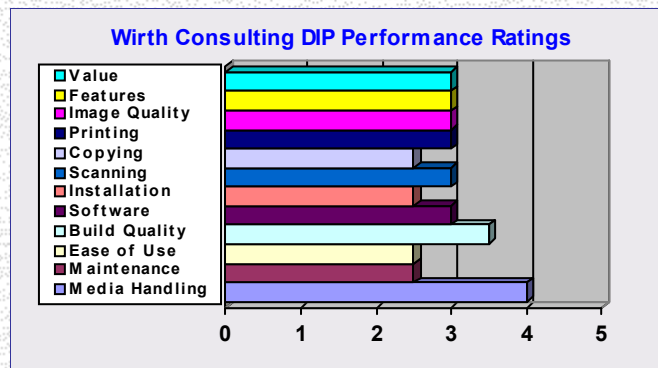
Monthly Duty Cycle	35,000	Max Media Width (inches)	8.5	215.90 mm	Price	\$449.00	€321.66
BW/Color Print Speed (PPM)	20/5	Max Media Length (inches)	14.0	355.60 mm	Duplex	\$99.00	€70.92
Max. Print Resolution (DPI)	1,200	Max Media Wt. (bond, lbs.)	53.0	178.88 gsm	Print	\$0.00	€0.00
Standard Memory (MB)	128.00	Height (inches)	17.00	431.80 mm	Network	\$0.00	€0.00
Std Media Capacity (sheets)	200	Width (inches)	16.00	406.40 mm	Scan	\$0.00	€0.00
Max Media Capacity (sheets)	700	Depth (inches)	16.90	429.26 mm	Doc Feeder	\$0.00	€0.00
Power Consumption (watts)	1,060	Weight (pounds)	53.30	24.18 kg	Full System	\$548.00	€392.59

Feature Checklist

Value Add	Print	Scan	Copy
USB Convenience Port <input checked="" type="checkbox"/>	Duplex Printing <input checked="" 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 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 type="checkbox"/>	Web Utilities <input checked="" type="checkbox"/>	Navigation Keys <input checked="" type="checkbox"/>
BW Office IQ <input checked="" type="checkbox"/>	GDI Printing <input checked="" type="checkbox"/>	Media Handling	Maintenance
Color Office IQ <input checked="" type="checkbox"/>	PCL <input type="checkbox"/>	Feeds Index Stock <input checked="" 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"/>	Finishing
Photographic IQ <input type="checkbox"/>	Adobe PostScript <input type="checkbox"/>	Holds Full Ream of Media <input checked="" type="checkbox"/>	Finishing <input type="checkbox"/>

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

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



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

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

Overall Score	35.5	Copier Score	26.5	Printer Score	30.0	Scanner Score	23.5	Usability Score	14.0
----------------------	-------------	---------------------	-------------	----------------------	-------------	----------------------	-------------	------------------------	-------------

Wirth Consulting

B2B Digital Imaging Product Evaluation

Tuesday, October 20, 2009 2:18:42 PM

WYSK

"What You Should Know"

Make **Konica Minolta**

Model **magicolor 1690MF**

Classification **Color Duplex MFPs Under \$500**

Consumables Pricing and Yields* *All supply yields are based on an original area coverage of 5% per color

Black Ink/Toner Price	\$72.00	Magenta Ink/Toner Yield (pages)	2,500	Maintenance Kit Price	\$109.00
Black Ink/Toner Yield	2,500	Yellow Ink/Toner Price	\$109.00	Maintenance Kit Yield	50,000
Cyan Ink/Toner Price	\$109.00	Yellow Ink/Toner Yield	2,500	Other Type	Imaging unit
Cyan Ink/Toner Yield	2,500	Multicolor Ink Price		Other Price	\$123.00
Magenta Ink/Toner Price	\$109.00	Multicolor Ink Yield		Other Yield	45,000
Black Consumables Cost per Page		\$0.0315		Color Consumables Cost per Page	
				\$0.1667	

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	\$0.181	\$0.316	50 pages	\$537.06	\$942.54	\$665.50
100 pages	\$0.106	\$0.242	100 pages	\$625.12	\$1,436.08	\$886.49
250 pages	\$0.061	\$0.197	250 pages	\$889.30	\$2,916.70	\$1,549.45
500 pages	\$0.047	\$0.182	500 pages	\$1,329.60	\$5,384.40	\$2,654.39
1,000 pages	\$0.039	\$0.174	1,000 pages	\$2,341.00	\$10,450.60	\$4,993.76
2,000 pages	\$0.035	\$0.170	2,000 pages	\$4,233.00	\$20,452.20	\$9,543.01
3,000 pages	\$0.034	\$0.169	3,000 pages	\$6,125.00	\$30,453.80	\$14,092.25
4,000 pages	\$0.033	\$0.169	4,000 pages	\$8,017.00	\$40,455.40	\$18,641.50
5,000 pages	\$0.033	\$0.168	5,000 pages	\$9,909.00	\$50,457.00	\$23,190.75

Wirth Consulting Commentary

Strengths

- 35-sheet simplex automatic document feeder.
- USB convenience port for print from and scan to USB memory cards.
- Print on up to 110 lb. index (53 lb. bond).
- Available from dealers as well retailers. Dealers may be able to provide an attractive, fixed cost-per-page plan, as well as onsite service.
- Color network scanning to computer workstations, hard-drive memory, and e-mail (supports LDAP). Also provided are TWAIN and WIA scan drivers, and Konica Minolta's LinkMagic utility for document management for scanning.
- High-yield consumables and relatively high maximum media capacity for less frequent maintenance.

Limitations

- Relatively higher cost per page and Total Cost of Ownership.

Notes

- Optional 500-sheet paper drawer (\$99).

Best Use

For small offices and workgroups, and home offices, with somewhat higher workloads that require color print, copy and scan, and B/W fax. The system is sold through authorized dealers, value-added resellers and via direct sales. When purchased through dealers, users may be able to obtain attractive, fixed cost-per-page plans.