

Wirth Consulting

B2B Digital Imaging Product Evaluation

Thursday, April 09, 2009 12:43:51 PM

WYSK

"What You Should Know"

Make	Konica Minolta	Model	magicolor 1650EN
Functions	Print	Imaging Technology	Laser
Classification Color Laser Printers With Duplex Under \$500			



The magicolor 1650EN's controller incorporates Konica Minolta's Emperon technology, which Wirth Consulting has found to be very productive. While this desktop color-laser printer with networking will be suitable for business B&W applications, it is equipped with color-matching and press-emulation software, making it suitable for proofing graphics color output before printing on higher-end printing systems. Duplexing is optional (\$139), but total pricing with duplexing is still under \$500.



Specifications

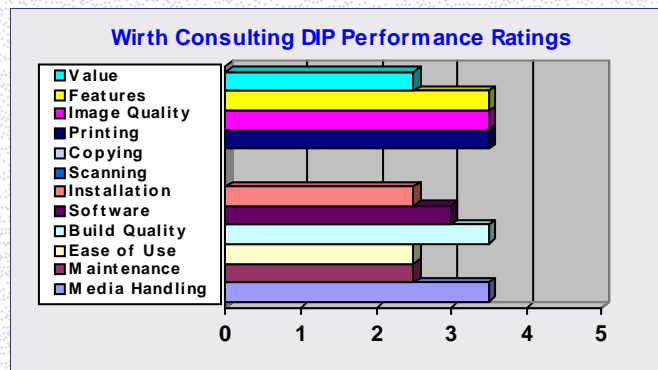
Monthly Duty Cycle	35,000	Max Media Width (inches)	8.5	215.9	mm	Price	\$329.00	€236.22
BW/Color Print Speed (PPM)	20/5	Max Media Length (inches)	14.0	355.6	mm	Duplex	\$139.00	€99.80
Max. Print Resolution (DPI)	9,600x600	Max Media Wt. (bond, lbs.)	53.0	178.9	gsm	Print		
Standard Memory (MB)		Height (inches)	11.0	279.4	mm	Network		
Std Media Capacity (sheets)	200	Width (inches)	16.0	406.4	mm	Scan		
Max Media Capacity (sheets)	700	Depth (inches)	15.0	381.0	mm	Doc Feeder		
Power Consumption (watts)	600W	Weight (pounds)	33.0	15.0	kg	Full System	\$468.00	€336.02

Feature Checklist

Value Add	Print	Scan	Copy
USB Convenience Port <input checked="" type="checkbox"/>	Duplex Printing <input checked="" 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"/>	Ease of Use
Walk-Up Fax <input type="checkbox"/>	Microsoft Windows <input type="checkbox"/>	Software	Graphic Display <input type="checkbox"/>
LAN Fax <input type="checkbox"/>	Apple Mac <input 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 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 type="checkbox"/>
Professional IQ <input type="checkbox"/>	PostScript <input checked="" 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	2.5
Features	3.5
Image Quality	3.5
Printing	3.5
Copying	
Scanning	



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

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

Overall Score	30.5	Copier Score		Printer Score	30.5	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	\$109.99	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	\$72.00	Yellow Ink/Toner Yield	2,500	Other Type	Drum Unit		
Cyan Ink/Toner Yield	2,500	Multicolor Ink Price	\$99.00	Other Price	\$99.00		
Magenta Ink/Toner Price	\$109.00	Multicolor Ink Yield	11,250	Other Yield	45,000		
Black Consumables Cost per Page		\$0.0462		Color Consumables Cost per Page		\$0.1666	

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	\$0.156	\$0.276	50 pages	\$461.05	\$822.13	\$575.59
100 pages	\$0.101	\$0.221	100 pages	\$593.10	\$1,315.26	\$825.48
250 pages	\$0.068	\$0.188	250 pages	\$989.24	\$2,794.64	\$1,575.13
500 pages	\$0.057	\$0.178	500 pages	\$1,649.48	\$5,260.28	\$2,824.55
1,000 pages	\$0.052	\$0.172	1,000 pages	\$3,100.76	\$10,322.36	\$5,452.88
2,000 pages	\$0.049	\$0.169	2,000 pages	\$5,872.52	\$20,315.72	\$10,580.05
3,000 pages	\$0.048	\$0.168	3,000 pages	\$8,644.28	\$30,309.08	\$15,707.22
4,000 pages	\$0.048	\$0.168	4,000 pages	\$11,416.04	\$40,302.44	\$20,834.39
5,000 pages	\$0.047	\$0.168	5,000 pages	\$14,187.80	\$50,295.80	\$25,961.56

Wirth Consulting Commentary

Strengths

- PostScript 3 emulation print driver.
- Supports Microsoft Windows, Apple Mac and Linux environments.
- Capable PageScope network management and broad array of PageScope tools and Plug-Ins (HP Web Jetadmin-compatible).
- 10/100BASE-TX Ethernet network interface.
- The printer is notably compact and light weight, measuring 15.6" wide x 15" deep x 10.9" high, and weighing 33 lbs.
- 400 MHz CPU.
- Status Monitor software utility enables users to quickly check device status.
- For color-printing and proofing applications, Konica Minolta provides ICC device profiles; automatic ICC-based color matching; and SWOP, Commercial EuroColor, DIC and TOYO press emulations.

Limitations

- High B&W and color consumables' cost per page of 4.8 and 17.1 cents respectively.
- NOTES:
- Drum unit is priced at \$99 and is rated to yield 45,000 B&W or 11,250 color pages.
 - In the "Consumables Pricing and Yields" chart above, "Other Type" refers to the drum unit (\$99), which is rated to yield 45,000 B&W pages. "Multicolor Ink Price" refers to the same \$99 drum, while "Multicolor Ink Yield" refers to the fact that the drum is rated to yield 11,250 color pages.
 - 9,600x600 dpi is enhanced resolution.

Best Use

Small/mid-size business and enterprise use (as well as home use), including B&W text applications (with duplex capability), as well as for business-color applications such as printing Microsoft PowerPoint presentations and business correspondence. Also suitable for color-proofing applications.