

Wirth Consulting

B2B Digital Imaging Product Evaluation

Monday, July 27, 2009 10:35:24 AM

WYSK

"What You Should Know"

Make	Hewlett-Packard	Model	Photosmart Pro B9180
Functions	Print	Imaging Technology	Ink-jet
Classification A3 Color Ink-Jet Printers			

 Well Worth Consideration!

Hewlett-Packard's Photosmart Pro B9180 is most suitable for graphic-arts applications and light text and graphics, but unlike many graphic-arts printers on the market, it features standard Ethernet network connectivity for sharing. This A3 printer supports up to 13" x 19" (up to 13" x 44" via the specialty paper tray), and it can use either C,Y,M,K printing, or may be equipped with eight-ink color printing. This eight-color imaging capability, along with color-management software, enables users to produce professional/photo color image quality suitable for graphic-arts and proofing applications.



Specifications

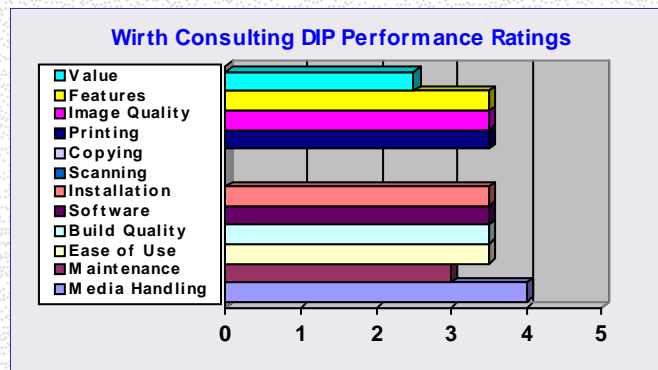
Monthly Duty Cycle	10,000	Max Media Width (inches)	13.0	330.20 mm	Price	\$699.99	€501.47
BW/Color Print Speed (PPM)	28/26	Max Media Length (inches)	44.0	1,117.60 mm	Duplex		
Max. Print Resolution (DPI)	4800x1200	Max Media Wt. (bond, lbs.)	87.0	293.63 gsm	Print		
Standard Memory (MB)	64.00	Height (inches)	9.50	241.30 mm	Network		
Std Media Capacity (sheets)	200	Width (inches)	26.50	673.10 mm	Scan		
Max Media Capacity (sheets)	200	Depth (inches)	16.90	429.26 mm	Doc Feeder		
Power Consumption (watts)	35	Weight (pounds)	38.0	17.24 kg	Full System	\$699.99	€501.47

Feature Checklist

Value Add	Print	Scan	Copy
USB Convenience Port <input type="checkbox"/>	Duplex Printing <input 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 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 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 type="checkbox"/>
Professional IQ <input checked="" type="checkbox"/>	PostScript <input checked="" type="checkbox"/>	Max Weight from all Sources <input type="checkbox"/>	Finishing
Photographic IQ <input checked="" 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	3.5
Printing	3.5
Copying	
Scanning	



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

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

Overall Score	34.0	Copier Score		Printer Score	34.0	Scanner Score		Usability Score	17.0
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Model **Photosmart Pro B9180**

Classification **A3 Color Ink-Jet Printers**

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

Black Ink/Toner Price	\$38.99	Magenta Ink/Toner Yield (pages)	1,980	Maintenance Kit Price	
Black Ink/Toner Yield	1,480	Yellow Ink/Toner Price	\$38.99	Maintenance Kit Yield	
Cyan Ink/Toner Price	\$38.99	Yellow Ink/Toner Yield	1,700	Other Type	
Cyan Ink/Toner Yield	2,200	Multicolor Ink Price		Other Price	
Magenta Ink/Toner Price	\$38.99	Multicolor Ink Yield		Other Yield	
Black Consumables Cost per Page		\$0.0263	Color Consumables Cost per Page		\$0.0867

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	\$0.260	\$0.320	50 pages	\$779.02	\$960.07	\$830.98
100 pages	\$0.143	\$0.203	100 pages	\$858.06	\$1,220.16	\$968.97
250 pages	\$0.073	\$0.133	250 pages	\$1,095.16	\$2,000.41	\$1,382.94
500 pages	\$0.050	\$0.110	500 pages	\$1,490.33	\$2,000.41	\$1,643.75
1,000 pages	\$0.038	\$0.098	1,000 pages	\$2,280.67	\$5,901.66	\$3,452.79
2,000 pages	\$0.032	\$0.093	2,000 pages	\$3,861.34	\$11,103.33	\$6,212.59
3,000 pages	\$0.030	\$0.091	3,000 pages	\$5,442.02	\$16,305.01	\$8,972.38
4,000 pages	\$0.029	\$0.090	4,000 pages	\$7,022.69	\$21,506.68	\$11,732.18
5,000 pages	\$0.029	\$0.089	5,000 pages	\$8,603.37	\$26,708.35	\$14,491.98

Wirth Consulting Commentary

Strengths

- Low B/W and four-color consumables' cost per page of 2.6 and 8.6 cents respectively.
- Print on 3" x 5" to 13" x 19" media via main tray, and on up to 13" x 44" media via specialty tray.
- Print on up to 121.5 lb. index stock (87 lb. bond) via main paper tray and on up to stock up to 1.5 mm thick via specialty tray. Print on photo paper, digital fine art media (DFA), coated ink-jet stock, plain paper, labels, etc.
- HP's densitometric closed-loop color calibration--the printer incorporates a densitometer that periodically measures printed color density, and then automatically adjusts the printer in order to maintain image quality. Users can also calibrate via the main control panel or via software.
- Optional raster image processor (RIP) for 16-bit data transfer of print files to the printer.
- Separate ink cartridges (users only replace the depleted color).

Limitations

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

Notes

- Rated print speed is in draft mode.
- Additional ink cartridges include Light Magenta, Light Cyan, Light Gray, and Photo Black, and each is priced at \$38.99.

Best Use

Most suited for graphic-arts, professional color and color-proofing applications. In these environments, it's also suitable for some B/W office applications, but is most appropriate for users who require professional color printing (for fine arts, marketing, advertising, publishing, etc.) and very versatile media handling. Text and graphics should be produced using traditional four-color printing, while eight-color printing should be reserved for producing the most professional, photographic output.