



Head2Head Comparison

Make	Canon	
Model	PIXMA Pro9000	
Price	\$499.00	
Imaging	Ink-jet	
Classification	A3 Color Ink-Jet Printers	
Resolution (dpi)	4800x2400	Network Scan <input type="checkbox"/>
BW/Color Print Speed (ppm)	1.1/1.1	Color Scan <input type="checkbox"/>
Monthly Duty Cycle (pages)	N/A	Network Print <input checked="" type="checkbox"/>
Max Media Length (inches)	19.0	Duplex Print <input type="checkbox"/>
Max Media Width	13.00	Duplex DF <input type="checkbox"/>
Walk-Up Fax <input type="checkbox"/>	Touch Screen <input type="checkbox"/>	USB 2.0 Port <input type="checkbox"/>


Canon's PIXMA Pro9000 is a photo-printer that can print on media up to 13" x 19", and can be equipped with eight ink colors versus the traditional four (CMYK) ink colors. Eight-color printing enables the printer to produce professional and superior photo-quality color output. The printer supports a wide variety of substrates and media--up to 1.2 mm thick--including card and index stock. Without network connectivity, it is most suitable for a single user.

Head2Head Comparison

Make	Epson	
Model	Stylus Photo 1400	
Price	\$299.99	
Imaging	Ink-jet	
Classification	A3 Color Ink-Jet Printers	
Resolution (dpi)	5760x1440	Network Scan <input type="checkbox"/>
BW/Color Print Speed (ppm)	15/15	Color Scan <input type="checkbox"/>
Monthly Duty Cycle (pages)	N/A	Network Print <input type="checkbox"/>
Max Media Length (inches)	19.0	Duplex Print <input type="checkbox"/>
Max Media Width	13.00	Duplex DF <input type="checkbox"/>
Walk-Up Fax <input type="checkbox"/>	Touch Screen <input type="checkbox"/>	USB 2.0 Port <input type="checkbox"/>


Epson markets an extensive lineup of photo printers, and its Stylus Photo 1400 color ink-jet printer is a good example of the breed. It's essentially a six-color device that can print utilizing four ink colors (the traditional CMYK), but may also be equipped with two additional inks, Light Cyan and Light Magenta, for six-color printing that enables it to produce souper photo-quality color output. It can also produce borderless prints in media sizes from 4" x 6" up to 13" x 19", and can print on CDs and DVDs.

Head2Head Comparison

Make	Hewlett-Packard	
Model	Business Inkjet 2800dtn	
Price	\$999.00	
Imaging	Ink-jet	
Classification	A3 Color Ink-Jet Printers	
Resolution (dpi)	4800x1200	Network Scan <input type="checkbox"/>
BW/Color Print Speed (ppm)	24/21	Color Scan <input type="checkbox"/>
Monthly Duty Cycle (pages)	12,000	Network Print <input checked="" type="checkbox"/>
Max Media Length (inches)	19.0	Duplex Print <input checked="" type="checkbox"/>
Max Media Width	13.00	Duplex DF <input type="checkbox"/>
Walk-Up Fax <input type="checkbox"/>	Touch Screen <input type="checkbox"/>	USB 2.0 Port <input type="checkbox"/>


This printer's features of note include not only 13" x 19" media capability, but standard automatic duplexing and PostScript 3 print driver. With the printer's standard PostScript 3 print driver and photo paper, users can expect more photo-quality image quality. It features a standard JetDirect network print server (which includes compatibility with HP's Web Jetadmin network-management solution), providing easy networking and sharing among small workgroups.

Head2Head Comparison

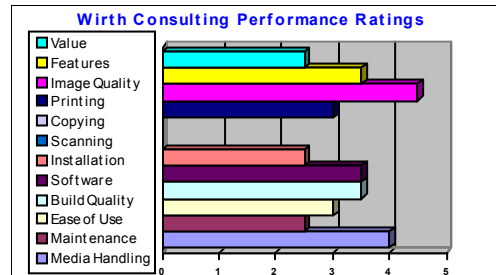
Make	Hewlett-Packard	
Model	Officejet Pro K8600dn	
Price	\$229.00	
Imaging	Ink-jet	
Classification	A3 Color Ink-Jet Printers	
Resolution (dpi)	4800x1200	Network Scan <input type="checkbox"/>
BW/Color Print Speed (ppm)	33/32	Color Scan <input type="checkbox"/>
Monthly Duty Cycle (pages)	7000	Network Print <input checked="" type="checkbox"/>
Max Media Length (inches)	19.0	Duplex Print <input type="checkbox"/>
Max Media Width	13.00	Duplex DF <input type="checkbox"/>
Walk-Up Fax <input type="checkbox"/>	Touch Screen <input type="checkbox"/>	USB 2.0 Port <input type="checkbox"/>

HP's Officejet 7000 Wide Format printer, just introduced in May 2009, is similar to the Officejet 6000 Series, but supports up to 13" x 19" media (and up to 13" x 44" custom-media capability). As with the Officejet 6000 Series, it uses a traditional pigment-based black ink, but dye-based color inks (cyan, magenta, yellow) that provide more vibrant color images. The printer's controller is based on a 384 MHz CPU, and includes PCL 3 GUI driver, Ethernet network interface, and 32 MB of memory. A wireless network option is also available, and duplexing is manual only.

Head2Head Comparison

Make	Hewlett-Packard	
Model	Officejet Pro K8600dn	
Price	\$399.00	
Imaging	Ink-jet	
Classification	A3 Color Ink-Jet Printers	
Resolution (dpi)	4800x1200	Network Scan <input type="checkbox"/>
BW/Color Print Speed (ppm)	33/35	Color Scan <input type="checkbox"/>
Monthly Duty Cycle (pages)	6,250	Network Print <input checked="" type="checkbox"/>
Max Media Length (inches)	19.0	Duplex Print <input checked="" type="checkbox"/>
Max Media Width	13.00	Duplex DF <input type="checkbox"/>
Walk-Up Fax <input type="checkbox"/>	Touch Screen <input type="checkbox"/>	USB 2.0 Port <input type="checkbox"/>

As its name suggests, the OfficeJet Pro K8600dn is suitable for general office use. It's equipped with a standard Jetdirect network interface for sharing among up to five users and compatibility with HP's Web JetAdmin for network management. It also features flexible media-handling capability, with the ability to produce borderless prints on up to 13" x 19" media, making it suitable for many graphic arts and photo applications. A straight-through paper path enables the printer to handle heavy stock up to 76 lb. bond (158 lb. index), and automatic duplexing is standard.



RATINGS SCOREBOARD Total Ratings Score **32.5**

Black/Color Cost Per Page **\$0.03553** **\$0.14213**

Total Cost of Ownership (Black/Color/ Mixed)

100 pages/month	\$712.20	\$1,351.80	\$916.15
500 pages/month	\$1,565.00	\$2,631.00	\$1,901.13
1,000 pages/month	\$2,631.00	\$9,027.00	\$4,715.37
3,000 pages/month	\$6,895.00	\$26,083.00	\$13,158.99
5,000 pages/month	\$11,159.00	\$43,139.00	\$21,600.81

Strengths

- Four-color (CMYK) printing as well as eight-color printing. Eight-color printing adds Photo Cyan, Photo Magenta, Red, and Green).
- With eight-color printing, the printer can produce photographic and professional-quality output.
- Two separate paper paths; the front paper path is designed for printing on heavier-weight stock.
- Print on media up to 13" x 19".
- Dye-based ink (ChromaLife 100) provides enhanced light fastness for printed images.
- Individual ink cartridges (only replace the color that is depleted).
- Software includes "Easy PhotoPrint Pro," a software plug-in for Adobe Shop for color management.

Limitations

- No network capability standard or optional.
- Relatively higher color consumables' cost per page of 14.2 cents.

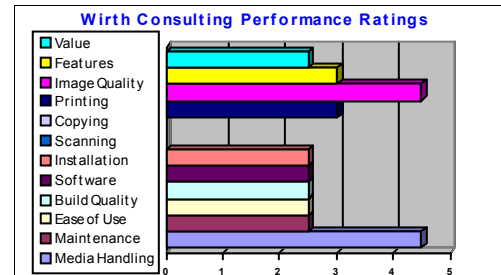
Notes

•Color cost per page is based on four-color printing, not eight-color printing.

•Additional ink colors (Photo Cyan, Photo Magenta, Red, Green) are rated to each produce 1,800

Best Use

Individual use (no networking) by graphic artists, fine artists, photographers, etc., where large-format professional-quality photo color printing is required.



RATINGS SCOREBOARD Total Ratings Score **30.0**

Black/Color Cost Per Page **\$0.04040** **\$0.11074**

Total Cost of Ownership (Black/Color/ Mixed)

100 pages/month	\$542.42	\$964.42	\$676.25
500 pages/month	\$1,512.12	\$1,961.95	\$1,645.15
1,000 pages/month	\$2,724.25	\$6,944.25	\$4,089.60
3,000 pages/month	\$7,572.76	\$20,232.76	\$11,674.83
5,000 pages/month	\$12,421.27	\$33,521.27	\$19,260.05

Strengths

- Four-color (CMYK) printing as well as six-color printing (light cyan and light magenta). With six-color printing, the printer can produce professional and more photo-quality color output.
- Print on index and card stock, as well as CDs and DVDs.
- Can produce borderless prints on media sizes from 4" x 6" up to 13" x 19".
- PictBridge port for printing directly from digital cameras and cell phones.
- Software includes Web to Page and Adobe Photoshop Elements color management. Other color management includes PhotoEnhance, ICC, and ColorSync with ICC profiles.
- Separate ink cartridges (only replace the color that is depleted).

Limitations

- No networking capability standard or optional.
- High B/W cost per page.

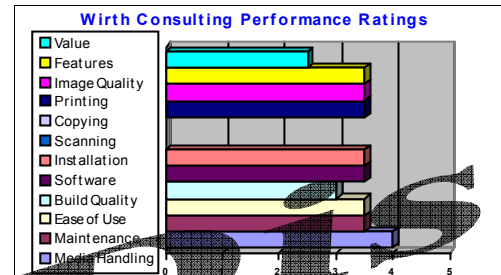
Notes

•Color cost per page is based on four-color printing, not six-color printing.

•Additional ink colors (Light Cyan, Light Magenta) are rated each produce 1,620 pages (\$18.98 each).

Best Use

Individual use (no networking) by graphic artists, fine artists, photographers, ad agencies, etc., where professional color printing is required.



RATINGS SCOREBOARD Total Ratings Score **34.0**

Black/Color Cost Per Page **\$0.01772** **\$0.06910**

Total Cost of Ownership (Black/Color/ Mixed)

100 pages/month	\$1,105.34	\$1,413.60	\$1,196.81
500 pages/month	\$1,530.68	\$3,035.49	\$1,684.96
1,000 pages/month	\$2,062.36	\$5,144.96	\$3,059.00
3,000 pages/month	\$4,189.68	\$13,436.89	\$7,198.98
5,000 pages/month	\$6,315.82	\$21,728.82	\$11,338.95

Strengths

- Low B/W and color consumables' color cost per page of 1.7 and 6.9 cents respectively.
- 256 MHz CPU and 96 MB standard memory.
- Print on custom media sizes from 3.54" x 5.75" up to 13" x 19".
- Remote Management Software (RMS) and very capable Web Jetadmin for printer and network management.
- Modular system--users may add duplexing, additional paper source and expanded memory if required.
- Two media sources--150-sheet tray and 250-sheet paper drawer.
- Standard automatic duplexing.
- Standard HP Jetdirect 620n (EIO) Internal Print Server, as well as a broad ranges of optional Jetdirect network interfaces for enhanced networking, security and data transmission. An optional Jetdirect Wireless Print Server is also available.
- Optional JetCPAS solution for printing barcodes.

Limitations

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

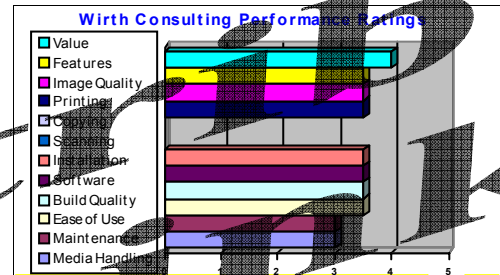
Notes

•Rated print speed is draft mode.

•Print heads must be periodically replaced, and each are priced at \$38.99. Black yields up to 16,000 pages, each color (CYM) yields up to

Best Use

Small and mid-size offices, as well as enterprises and home offices, that require color printing capability, and for easy sharing and management on the network. Suitable for some general office use, as well as for users who require the ability to print on media up to 13" x 19" (for producing marketing materials, newsletters, etc.), and who may require professional imaging capability and/or PostScript, the latter of which is typically not provided in this class. Low cost per page makes this versatile printer a good value.



RATINGS SCOREBOARD Total Ratings Score **34.5**

Black/Color Cost Per Page **\$0.02666** **\$0.09090**

Total Cost of Ownership (Black/Color/ Mixed)

100 pages/month	\$388.95	\$774.41	\$572.26
500 pages/month	\$1,028.75	\$1,932.52	\$1,204.51
1,000 pages/month	\$1,628.50	\$3,083.07	\$1,682.22
3,000 pages/month	\$5,027.50	\$16,591.21	\$8,793.25
5,000 pages/month	\$8,226.50	\$27,499.36	\$14,504.28

Strengths

- Low B/W and color consumables' cost per page of 2.6 and 9.0 cents respectively.
- Uses black pigment ink, and dye-based color inks (cyan, magenta, yellow) for producing more vibrant color output.
- Supports media sizes from 4" x 6" up to 13" x 19", and custom media sizes from 3" x 5" to 13" x 44", the last of which is useful for banner printing.
- With SmartWebPrinting, users can consolidate (and store) Web content, eliminating blank spaces and blank pages.
- Front panel contains 4 LED indicators that light up whenever a particular ink needs replacing.
- Standard Ethernet network interface, as well as optional wireless network connectivity.

Limitations

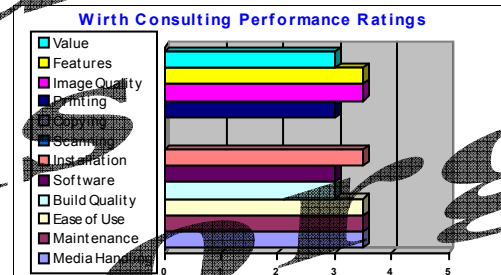
- Wirth Consulting has determined that this device does not have any notable limitations and should provide good functionality.

Notes

•Rated print speed is draft mode.

Best Use

Small and mid-size offices, as well as enterprises and home offices, that require color printing capability, and for easy sharing and management on the network. Suitable for some general office use, as well as for users who require the ability to print on media up to 13" x 19" (for producing sales collaterals for instance) and who may require high-quality imaging. Low B/W CPP of 2.6 cents also makes it suitable for general B/W office-printing applications. Low Total Cost of Ownership and CPP makes it an outstanding value.



RATINGS SCOREBOARD Total Ratings Score **33.0**

Black/Color Cost Per Page **\$0.01673** **\$0.06374**

Total Cost of Ownership (Black/Color/ Mixed)

100 pages/month	\$499.38	\$781.43	\$587.47
500 pages/month	\$900.92	\$1,355.08	\$1,041.78
1,000 pages/month	\$1,402.84	\$4,223.30	\$2,319.56
3,000 pages/month	\$3,410.51	\$11,871.91	\$6,168.67
5,000 pages/month	\$5,418.18	\$19,520.52	\$10,017.77

Strengths

- Low consumables' color cost per page of 6.4 cents; B/W consumables' cost per page is also economical at 1.7 cents per page.
- Produce borderless prints on up to 13" x 19" (note that the 150-sheet output tray supports 13" x 19" prints). The printer incorporates a straight-through paper path for feeding up to 76 lb. bond (158 lb. index).
- Standard Jetdirect (Ethernet) print server for enhanced network, security and transfer. Optional wireless Jetdirect print server.
- Standard duplexing.

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.

•Two print heads must be periodically replaced. The black/yellow print head is priced at \$71.99, as is the cyan/magenta print

Best Use

Small and mid-size offices, as well as enterprises, that require color printing capability, and for easy sharing and management on the network. Suitable for some general office use, as well as for users who require the ability to print on media up to 13" x 19" (for producing sales collaterals for instance) and who may require photographic imaging capability. Users who require PostScript should opt for the HP Business Inkjet 2800. Low Total Cost of Ownership and low B/W and color CPP make this an outstanding value.

Head2Head Comparison

Make	Hewlett-Packard	
Model	Photosmart Pro B9180	
Price	\$699.99	
Imaging	Ink-jet	
Classification	A3 Color Ink-Jet Printers	
Resolution (dpi)	4800x1200	<input type="checkbox"/> Network Scan
BW/Color Print Speed (ppm)	28/26	<input type="checkbox"/> Color Scan
Monthly Duty Cycle (pages)	10,000	<input checked="" type="checkbox"/> Network Print
Max Media Length (inches)	44.0	<input type="checkbox"/> Duplex Print
Max Media Width	13.00	<input type="checkbox"/> Duplex DF
Walk-Up Fax	<input type="checkbox"/>	<input type="checkbox"/> Touch Screen
		<input type="checkbox"/> USB 2.0 Port



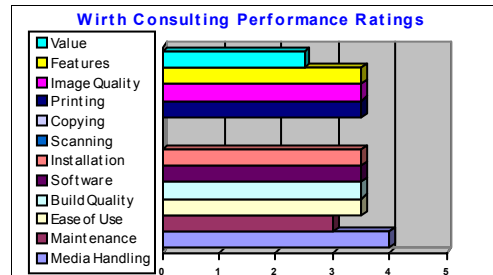
Hewlett-Packard's Photosmart Pro B9180 is most suitable for graphic-arts applications and light text and graphics, but unlike many graphic-arts printers on the market, it features standard Ethernet network connectivity for sharing. This A3 printer supports up to 13" x 19" (up to 13" x 44" via the specialty 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.

Head2Head Comparison

Make	Ricoh	
Model	GX7000	
Price	\$749.00	
Imaging	Ink-jet	
Classification	A3 Color Ink-Jet Printers	
Resolution (dpi)	3,600x1,200	<input type="checkbox"/> Network Scan
BW/Color Print Speed (ppm)	29/29	<input type="checkbox"/> Color Scan
Monthly Duty Cycle (pages)	10,000	<input checked="" type="checkbox"/> Network Print
Max Media Length (inches)	51.0	<input checked="" type="checkbox"/> Duplex Print
Max Media Width	13.00	<input type="checkbox"/> Duplex DF
Walk-Up Fax	<input type="checkbox"/>	<input type="checkbox"/> Touch Screen
		<input type="checkbox"/> USB 2.0 Port



Ricoh's GX7000 is an A3 color ink-jet printer that employs Ricoh's Gelsprinter piezo ink-jet imaging technology, which utilizes a gel-like ink to create images and text. The advantage of ink in gel versus liquid form is that gel ink dries faster, and thus improves duplex productivity and minimizes problems associated with slower-drying liquid ink such as slower duplex productivity in order to allow ink to dry. The GX7000 features automatic duplexing and optional network connectivity.



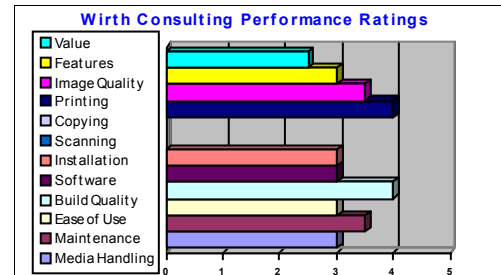
RATINGS SCOREBOARD Total Ratings Score **34.0**

Black/Color Cost Per Page \$0.02634 \$0.08669

Total Cost of Ownership (Black/Color/ Mixed)

100 pages/month	\$858.06	\$1,220.16	\$968.97
500 pages/month	\$1,490.33	\$2,000.41	\$1,643.75
1,000 pages/month	\$2,280.67	\$5,901.66	\$3,452.79
3,000 pages/month	\$5,442.02	\$16,305.01	\$8,972.38
5,000 pages/month	\$8,603.37	\$26,708.35	\$14,491.98

Strengths	Limitations
<ul style="list-style-type: none"> •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 (97 lb. bond) via main paper tray, and on up to stock up to 140mm 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). 	<ul style="list-style-type: none"> •Wirth Consulting has determined that this device does not have any notable limitations and should provide good functionality.
Best Use	Notes
<p>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.</p>	<ul style="list-style-type: none"> •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.



RATINGS SCOREBOARD Total Ratings Score **32.5**

Black/Color Cost Per Page \$0.01900 \$0.10290

Total Cost of Ownership (Black/Color/ Mixed)

100 pages/month	\$862.98	\$1,366.38	\$1,020.47
500 pages/month	\$1,318.90	\$2,292.45	\$1,626.98
1,000 pages/month	\$1,888.80	\$6,922.80	\$3,531.13
3,000 pages/month	\$4,168.80	\$19,270.40	\$9,110.38
5,000 pages/month	\$6,448.00	\$31,618.00	\$14,689.62

Strengths	Limitations
<ul style="list-style-type: none"> •Low B/W consumables' cost per page of 1.9 cents; consumables' cost per page for color output is competitive at 10 cents per page. •Print on banner sheets up to 13" x 51" via optional 100-sheet bypass tray; main trays accept up to 11" x 17". •Print on up to approximately 140 lb. index stock (approximately 68 lb. bond) via optional bypass tray; main trays accept up to 42 lb. bond / 90 lb. index). •Accepts heavier paper stock--up to 140 lb. index stock. •Fast duplex mode, as gel ink requires less time when drying. •SmartDeviceMonitor for Admin for network installation and management; •SmartDeviceMonitor for Client for end-user device monitoring. •Individual ink cartridges (only replace the color that is depleted). 	<ul style="list-style-type: none"> •Wirth Consulting has determined that this device does not have any notable limitations and should provide good functionality.
Best Use	Notes
<p>The Ricoh GX700 has a strong office-productivity feature set that makes it best suited as an all-around B&W/color printer with A3 capability. Low B/W cost per page and solid construction make the printer suitable for offices, small workgroups, enterprises and even home use.</p>	<ul style="list-style-type: none"> •Rated print speed is in draft mode. •Optional network connectivity (10/100Base-TX Ethernet); street price is approximately \$101.99.

The Ricoh GX700 has a strong office-productivity feature set that makes it best suited as an all-around B&W/color printer with A3 capability. Low B/W cost per page and solid construction make the printer suitable for offices, small workgroups, enterprises and even home use.

Wirth Consulting Web Links Distribution