

Wirth Consulting

B2B Digital Imaging Product Evaluation

Monday, July 27, 2009 10:34:20 AM

WYSK

"What You Should Know"

Make	Epson	Model	Stylus Photo 1400
Functions	Print	Imaging Technology	Ink-jet
Classification A3 Color Ink-Jet Printers			



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.



Specifications

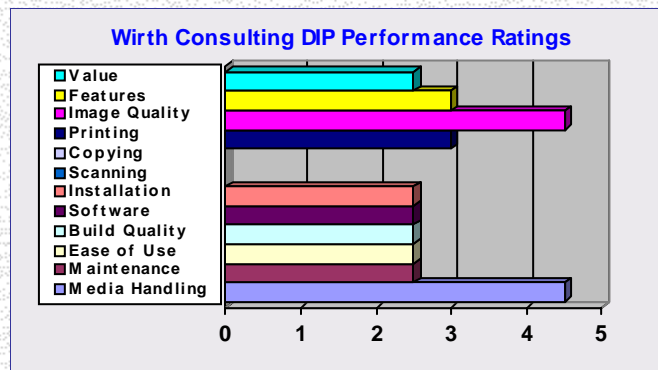
Monthly Duty Cycle	N/A	Max Media Width (inches)	13.0	330.20 mm	Price	\$299.99	€214.91
BW/Color Print Speed (PPM)	15/15	Max Media Length (inches)	19.0	482.60 mm	Duplex		
Max. Print Resolution (DPI)	5760x1440	Max Media Wt. (bond, lbs.)	24.0	81.00 gsm	Print		
Standard Memory (MB)		Height (inches)	16.30	414.02 mm	Network		
Std Media Capacity (sheets)	120	Width (inches)	24.20	614.68 mm	Scan		
Max Media Capacity (sheets)	120	Depth (inches)	31.60	802.64 mm	Doc Feeder		
Power Consumption (watts)	16	Weight (pounds)	25.0	11.34 kg	Full System	\$299.99	€214.91

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 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 type="checkbox"/>	Touch Screen <input type="checkbox"/>
Image Quality	Linux <input type="checkbox"/>	Web Utilities <input type="checkbox"/>	Navigation Keys <input 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 checked="" 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	3.0
Image Quality	4.5
Printing	3.0
Copying	
Scanning	



2.5	Installation
2.5	Software
2.5	Build Quality
2.5	Ease of Use
2.5	Maintenance
4.5	Media Handling

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

Overall Score	30.0	Copier Score		Printer Score	30.0	Scanner Score		Usability Score	12.5
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Make **Epson**

Model **Stylus Photo 1400**

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	\$18.99	Magenta Ink/Toner Yield (pages)	810	Maintenance Kit Price	
Black Ink/Toner Yield	470	Yellow Ink/Toner Price	\$18.99	Maintenance Kit Yield	
Cyan Ink/Toner Price	\$18.99	Yellow Ink/Toner Yield	810	Other Type	
Cyan Ink/Toner Yield	810	Multicolor Ink Price		Other Price	
Magenta Ink/Toner Price	\$18.99	Multicolor Ink Yield		Other Yield	
Black Consumables Cost per Page		\$0.0404	Color Consumables Cost per Page		\$0.1107

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	\$0.140	\$0.211	50 pages	\$421.20	\$632.20	\$486.62
100 pages	\$0.090	\$0.161	100 pages	\$542.42	\$964.42	\$676.25
250 pages	\$0.060	\$0.131	250 pages	\$906.05	\$1,961.05	\$1,245.14
500 pages	\$0.050	\$0.121	500 pages	\$1,512.12	\$1,961.05	\$1,645.15
1,000 pages	\$0.045	\$0.116	1,000 pages	\$2,724.25	\$6,944.25	\$4,089.60
2,000 pages	\$0.043	\$0.113	2,000 pages	\$5,148.50	\$13,588.50	\$7,882.22
3,000 pages	\$0.042	\$0.112	3,000 pages	\$7,572.76	\$20,232.76	\$11,674.83
4,000 pages	\$0.042	\$0.112	4,000 pages	\$9,997.01	\$26,877.01	\$15,467.44
5,000 pages	\$0.041	\$0.112	5,000 pages	\$12,421.27	\$33,521.27	\$19,260.05

Wirth Consulting Commentary

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, ICM 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).
- Rated print speed is in draft mode.

Best Use

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