

# Wirth Consulting

## B2B Digital Imaging Product Evaluation

Monday, July 27, 2009 10:36:43 AM

# WYSK

"What You Should Know"

<b>Make</b>	Hewlett-Packard	<b>Model</b>	Business Inkjet 2800dtn
<b>Functions</b>	Print	<b>Imaging Technology</b>	Ink-jet
<b>Classification</b> A3 Color Ink-Jet Printers			



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.



## Specifications

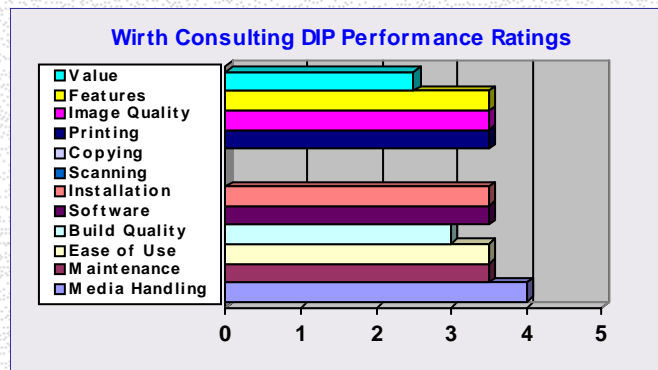
Monthly Duty Cycle	12,000	Max Media Width (inches)	13.0	330.20 mm	Price	\$999.00	€715.68
BW/Color Print Speed (PPM)	24/21	Max Media Length (inches)	19.0	482.60 mm	Duplex		
Max. Print Resolution (DPI)	4800x1200	Max Media Wt. (bond, lbs.)	20.0	67.50 gsm	Print		
Standard Memory (MB)	96.00	Height (inches)	10.40	264.16 mm	Network		
Std Media Capacity (sheets)	400	Width (inches)	26.60	675.64 mm	Scan		
Max Media Capacity (sheets)	400	Depth (inches)	23.10	586.74 mm	Doc Feeder		
Power Consumption (watts)	67	Weight (pounds)	42.0	19.05 kg	Full System	\$999.00	€715.68

## Feature Checklist

<b>Value Add</b>	<b>Print</b>	<b>Scan</b>	<b>Copy</b>
USB Convenience Port <input 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"/>	<b>Ease of Use</b>
Walk-Up Fax <input type="checkbox"/>	Microsoft Windows <input checked="" type="checkbox"/>	<b>Software</b>	Graphic Display <input checked="" type="checkbox"/>
LAN Fax <input type="checkbox"/>	Apple Mac <input checked="" type="checkbox"/>	Desktop Software <input checked="" type="checkbox"/>	Touch Screen <input type="checkbox"/>
<b>Image Quality</b>	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"/>	<b>Media Handling</b>	<b>Maintenance</b>
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"/>	<b>Finishing</b>
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
3.0	Build Quality
3.5	Ease of Use
3.5	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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### 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)	2,000	Maintenance Kit Price	
Black Ink/Toner Yield	2,200	Yellow Ink/Toner Price	\$38.99	Maintenance Kit Yield	
Cyan Ink/Toner Price	\$38.99	Yellow Ink/Toner Yield	2,550	Other Type	
Cyan Ink/Toner Yield	2,350	Multicolor Ink Price		Other Price	
Magenta Ink/Toner Price	\$38.99	Multicolor Ink Yield		Other Yield	
Black Consumables Cost per Page		<b>\$0.0177</b>		Color Consumables Cost per Page	
				<b>\$0.0691</b>	

### 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	\$0.351	\$0.402	50 pages	\$1,052.17	\$1,206.30	\$1,092.51
100 pages	\$0.184	\$0.236	100 pages	\$1,105.34	\$1,413.60	\$1,196.01
250 pages	\$0.084	\$0.136	250 pages	\$1,264.84	\$2,035.49	\$1,506.51
500 pages	\$0.051	\$0.102	500 pages	\$1,530.68	\$2,035.49	\$1,681.96
1,000 pages	\$0.034	\$0.086	1,000 pages	\$2,062.36	\$5,144.96	\$3,059.00
2,000 pages	\$0.026	\$0.077	2,000 pages	\$3,125.73	\$9,290.93	\$5,128.99
3,000 pages	\$0.023	\$0.075	3,000 pages	\$4,189.09	\$13,436.89	\$7,198.98
4,000 pages	\$0.022	\$0.073	4,000 pages	\$5,252.45	\$17,582.86	\$9,268.96
5,000 pages	\$0.021	\$0.072	5,000 pages	\$6,315.82	\$21,728.82	\$11,338.95

### Wirth Consulting Commentary

#### 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 24,000 pages.

#### 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.