Wirth Consulting

What You Should Know

Digital-Imaging Product Evaluation

Tuesday, October 16, 2012 2:32:50 PM

Konica Minolta

pagepro 4650EN

Enterprise-Ready A4 B/W Laser/LED Printers

Online and Konica Minolta Direct/Dealers

Product Overview

Well Worth Consideration!

Widely available online for ~$300, the pagepro 4650EN has our requisite enterprise-ready feature set: automatic duplex printing (optional); SNMPv3 (network user authentication) support; support for the PageScope suite of print and management solutions; and expandable media supply. It's built on Konica Minolta's Emperon print platform that we've found to be very capable in past tests. There's also a USB port for printing from USB flash-memory devices, XPS, PDF, JPEG, and TIFF direct print (requires optional Hard Drive or CF card), standard Gigabit Ethernet networking, secure print, all-in-one print cartridge, and optional stacker/sorter.

Key Specifications and Pricing

Functions	Print	Std Media Capacity (sheets)		700	Price	$699.00	€538.23
Imaging Technology	Laser	Max Media Capacity (sheets)		1,800	Duplex	$299.00	€230.23
Max Mo. Duty Cycle (pages)	150,000	Max Media Sources		4	Print		
BW/Color Print Speed (PPM)	35.7	Max Media Width (inches/mm)	8.5	215.9	Network		
Max Print Resolution (DPI)	1,200x1,200	Max Media Length (inches/mm)	35.4	899.2	Scan		
Standard Memory (MB)	128	Max Media Wt. (bond, lbs./gsm	64.0	240.6	Doc Feeder		
Maximum Memory (MB)	384	Height (inches/mm)	15.90	403.86	Media Trays	550-Sheet Cassettes	
Hard Drive (GB)	Optional 40 GB	Width (inches/mm)	16.60	421.64	Price	$299.00	€230.23
HD Overwrite/Encryption	No	Depth (inches/mm)	18.30	464.82	LCT		
Wireless/Ethernet Networking	No/Yes	Weight (pounds/kg)	50.2	22.8	Finisher	500-Sheet Stacker/Sorter	
User/Network Authentication	No/No	Max Power Draw (watts)		1,015	Price	$299.00	€230.23

Feature Analysis, Ratings (from 0-5, with 5 being best) and Composite Scores

Value 4.0

Overall Score	**28.5**
Full System Price	$998.00
Black Cost per Page	$0.0158
Color Cost per Page	
Black TCO* (5k/mo)	$5,452.50
Color TCO* (5k/mo)	
Mixed** TCO* (5k/mo)	

*Base Price; **67% BW and 33% Color

Copying 0.0

Copier Score	**0.0**
Duplex Document Feeder	☐
Touch Screen	☐
Hard Drive	☐
ID Copy	☐

Scanning 0.0

Scanner Score	**0.0**
Color Scanning	☐
Network Scanning	☐
WSD Scanning	☐
LDAP Lookup	☐

Printing 3.5

Printer Score	**34.5**		
Print Processor (MHz)	500		
Maximum Memory (MB)	384		
Black/Color Print Speed	35.7		
Windows	☑	Linux	☑
Apple Mac	☑	PCL	☑
GDI Printing	☐	PostScript	☑
Secure Print	☑	UPD	☑

Features 3.0

USB Convenience Port	☑
Media Card Slots	☐
PC Fax	☐
Walk-Up Fax	☐
Duplex Printing	☑
Mobile Printing	☐

Wirth Consulting Performance Ratings (from 0-5, with 5 being best)

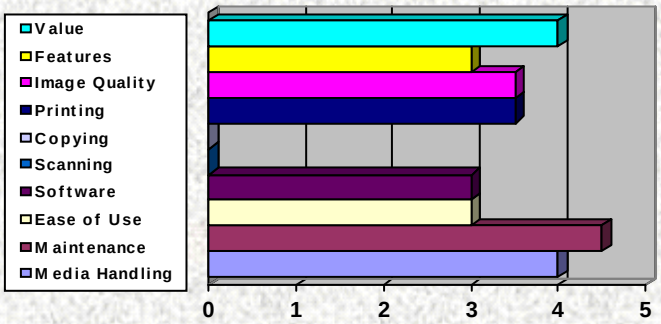

Image Quality 3.5

Imaging Technology	**Laser**
Max. Resolution	**1,200x1,200**
BW Office IQ	☑
Color Office IQ	☐
Professional IQ	☐
Photographic IQ	☐

Media Handling 4.0

Max Media Sources	4
Max Wt. (bond, lbs.)	64.0
Feeds 110-lb. Index Stock	☑
Max Weight from all Sources	☐
Finishing	☑

Maintenance 4.5

Black Page Yield	18,000
CYM Page Yield	
All-in-One Print Cartridge	☑
Holds Full Ream of Media	☑

Software 3.0

Desktop Software	☐
Embedded Web Server	☑
Adobe PostScript	☐
Open Platform	☐

Ease of Use 3.0

Usability Score	**16.5**
Graphic Display	☑
Touch Screen	☐
Navigation Keys	☑
Holds Full Ream of Media	☑

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Consumables Pricing and Yields

*Based on an original area coverage of 5% per color. **Yield in pages

Consumable	Price	Yield**	Dev Price	Dev Yield**	Drum Price	Drum Yield**
Black Ink/Toner	$261.00	18,000				
Cyan Ink/Toner						
Magenta Ink/Toner						
Yellow Ink/Toner						
Multicolor Ink						
Other Type						
Other						
Maintenance Kit	$269.00	200,000				

Supply Cost Per Page and Total Cost of Ownership*

*CPP and TCO include the base price depreciated over a five-year period (not including service) **Based on 66% Black/33% Color

Monthly Volume	Black CPP	Color CPP	Black TCO	Color TCO	Mixed TCO**
50 pages	**$0.249**		**$742.50**		
100 pages	**$0.132**		**$786.00**		
250 pages	**$0.062**		**$916.50**		
500 pages	**$0.039**		**$1,134.00**		
1,000 pages	**$0.027**		**$1,569.00**		
2,000 pages	**$0.022**		**$2,439.00**		
3,000 pages	**$0.020**		**$3,309.00**		
4,000 pages	**$0.019**		**$4,501.80**		
5,000 pages	**$0.018**		**$5,452.50**		

Consumables CPP

(Based on an original area coverage of 5% per color)

Black Cost Per Page

Black Consumables Cost per Page

$0.0158

Color Cost Per Page

Color Consumables Cost per Page

Strengths

•Low Cost per Page.
•Low Total Cost of Ownership at print volumes in excess of 1,000 pages per month.
•Standard 200-sheet multipurpose tray and 500-sheet media tray.
•Gigabit Ethernet network interface.
•Compatible with the capable PageScope printer fleet-management solution and PageScope EMS plug-ins for Tivoli NetView (2.0), CA Unicenter 2.0, HP OpenView, Microsoft Management Console (MMC) and HP Web JetAdmin.
•USB convenience port for printing Adobe PDF, XPS, JPEG and TIFF files from USB flash-memory drives.
•PageScope Direct Print Utility provides drag-and-drop desktop printing of XPS (requires optional hard drive), PDF, JPEG and TIFF files (requires optional hard drive or Compact Flash Card).
•Banner printing on media as long as 35.4", and ability to print on heavier stock can help users keep jobs in-house.
•Optional offset catch tray provides job-separation capability.
•PostScript 3, Universal PostScript 3, PCL 6 and Universal PCL 6 print drivers.
•Secure print and Proof print (requires optional Hard Drive).
•Backlit 4-line LCD graphic display.
•All-in-one print cartridges
ADDITIONAL NOTES:
•Energy Star-certified.

Limitations

•Ships with reduced-yield "Starter" toner cartridge (6,000 pages).
•No mobile or remote printing.
•No wireless networking.

Notes

•Maintenance kit includes fuser, transfer roller and 6 pick-up rollers.
•Options: 128/256 MB memory ($199/$299); 40-GB hard drive ($399), 500-sheet stacker/sorter ($299), CF card slot ($149), automatic duplex printing ($299); 550-sheet cassettes ($299; two may be added).
•Toner cost based on High Capacity toner cartridge.
•Pricing (except maintenance kit) from Konica Minolta Web site.
•Energy Star-certified.

Best Use

Although the enterprise-level pagepro 4650EN is the second most expensive device in this group, it's widely available online at a considerable discount. It features an all-in-one print cartridge, and printer/network management, and security is capable. It's also one of the more robust printers in this group with optional Hard Drive and finishing. Moreover, its Cost Per Page is very low which translates into a low Total Cost of Ownership at print volumes that exceed 1,000 pages per month. It's Well Worth Consideration for micro/small/medium-sized workgroups in companies or enterprises that do not require remote/mobile printing and/or wireless networking.

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