

# Wirth Consulting

## B2B Digital Imaging Product Evaluation

Friday, February 19, 2010 4:08:10 PM

# WYSK

"What You Should Know"

<b>Make</b>	Okidata	<b>Model</b>	MC160 MFP
<b>Functions</b>	Print/Copy/Scan/Fax	<b>Imaging Technology</b>	LED-array
<b>Classification</b> Entry-Level Toner-Based Color MFPs			



OKI Data Americas' MC160 MFP, which the company introduced in December 2009, is the firm's next-generation color MFP for small workgroups and offices. It incorporates color network print, color copy, color network scan, Super Group 3 walk-up fax, and PC fax. It also utilizes a host-based Microsoft Windows GDI driver, which uses the processing power of the host computer workstation to process jobs (no PCL or PostScript print driver). Capable performance and an attractive feature set make this device Worth Consideration, primarily for B/W printing applications.



## Specifications

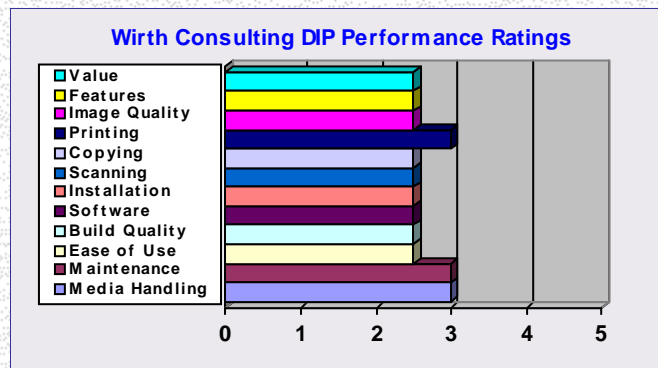
Max Monthly Duty Cycle	35,000	Max Media Width (inches)	8.5	215.90	mm	Price	\$449.99	€322.37
BW/Color Print Speed (PPM)	20/5	Max Media Length (inches)	14.0	355.60	mm	Duplex	\$139.00	€99.58
Max Print Resolution (DPI)	1200x600	Max Media Wt. (bond, lbs.)	53.0	178.88	gsm	Print	\$0.00	€0.00
Standard Memory (MB)	128.00	Height (inches)	17.00	431.80	mm	Network	\$0.00	€0.00
Std Media Capacity (sheets)	200	Width (inches)	15.90	403.86	mm	Scan	\$0.00	€0.00
Max Media Capacity (sheets)	700	Depth (inches)	16.80	426.72	mm	Doc Feeder	\$0.00	€0.00
Power Consumption (watts)	1060	Weight (pounds)	41.50	18.82	kg	Full System	<b>\$588.99</b>	<b>€421.95</b>

## Feature Checklist

<b>Value Add</b>	<b>Print</b>	<b>Scan</b>	<b>Copy</b>
USB Convenience Port <input checked="" type="checkbox"/>	Duplex Printing <input checked="" type="checkbox"/>	Color Scanning <input checked="" type="checkbox"/>	Duplex Document Feeder <input type="checkbox"/>
PC Fax <input checked="" type="checkbox"/>	Network Printing <input checked="" type="checkbox"/>	Network Scanning <input checked="" type="checkbox"/>	<b>Ease of Use</b>
Walk-Up Fax <input checked="" type="checkbox"/>	Microsoft Windows <input checked="" type="checkbox"/>	<b>Software</b>	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"/>
<b>Image Quality</b>	Linux <input type="checkbox"/>	Web Utilities <input checked="" type="checkbox"/>	Navigation Keys <input checked="" type="checkbox"/>
BW Office IQ <input checked="" type="checkbox"/>	GDI Printing <input checked="" type="checkbox"/>	<b>Media Handling</b>	<b>Maintenance</b>
Color Office IQ <input checked="" type="checkbox"/>	PCL <input type="checkbox"/>	Feeds 110-lb. 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 type="checkbox"/>	<b>Finishing</b>
Photographic IQ <input type="checkbox"/>	Adobe PostScript <input type="checkbox"/>	Holds Full Ream of Media <input checked="" type="checkbox"/>	Finishing <input type="checkbox"/>

## Wirth Consulting Ratings\* \*On a scale of 0-5, with 5 being the best

Value	2.5
Features	2.5
Image Quality	2.5
Printing	3.0
Copying	2.5
Scanning	2.5



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

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

Overall Score	31.5	Copier Score	23.5	Printer Score	26.5	Scanner Score	20.0	Usability Score	13.0
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## B2B Digital Imaging Product Evaluation

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Make **Oki**

Model **MC160 MFP**

Classification **Entry-Level Toner-Based Color MFPs**

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

Black Ink/Toner Price	\$88.00	Magenta Ink/Toner Yield (pages)	2,500	Maintenance Kit Price	
Black Ink/Toner Yield	2,500	Yellow Ink/Toner Price	\$115.00	Maintenance Kit Yield	
Cyan Ink/Toner Price	\$115.00	Yellow Ink/Toner Yield	2,500	Other Type	Image drum
Cyan Ink/Toner Yield	2,500	Multicolor Ink Price	\$115.00	Other Price	\$131.00
Magenta Ink/Toner Price	\$115.00	Multicolor Ink Yield		Other Yield	20,800
Black Consumables Cost per Page		<b>\$0.0415</b>		Color Consumables Cost per Page	
				<b>\$0.1795</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	\$0.191	\$0.329	50 pages	\$574.48	\$988.48	\$705.36
100 pages	\$0.116	\$0.254	100 pages	\$698.98	\$1,526.98	\$965.23
250 pages	\$0.071	\$0.209	250 pages	\$1,072.46	\$3,142.46	\$1,744.84
500 pages	\$0.056	\$0.194	500 pages	\$1,694.93	\$3,142.46	\$2,155.67
1,000 pages	\$0.049	\$0.187	1,000 pages	\$2,939.87	\$11,219.87	\$5,642.88
2,000 pages	\$0.045	\$0.183	2,000 pages	\$5,429.76	\$21,989.76	\$10,840.26
3,000 pages	\$0.044	\$0.182	3,000 pages	\$7,919.64	\$32,759.64	\$16,037.65
4,000 pages	\$0.043	\$0.181	4,000 pages	\$10,409.53	\$43,529.53	\$21,235.03
5,000 pages	\$0.043	\$0.181	5,000 pages	\$12,899.41	\$54,299.41	\$26,432.42

### Wirth Consulting Commentary

#### Strengths

- Color network scanning and scan-to-e-mail (supports LDAP); scan to network, FTP sites and computer workstations. TWAIN driver for pull scanning. PaperPort SE11 software for converting scanned documents in Adobe PDFs, etc.; includes OCR software.
- Scan to USB Flash drives.
- 10/100BaseT Ethernet network interface.
- 35-sheet automatic document feeder.
- Automatic duplex printing.
- Media capacity and duplex upgrades available as options.

#### Limitations

- Relatively high color cost per page of 17.9 cents.
- No PCL or PostScript print driver; uses a host-based "Enhanced Windows Printing" GDI driver, which uses the processing power of the host computer workstation to process jobs.
- Automatic document feeder does not provide automatic two-sided scanning of originals.
- Cannot print from USB flash memory devices or media cards.

#### Notes

- Optional 500-sheet paper drawer (\$99); automatic duplexing (\$139).
- Transfer belt is \$205.59 (page yield not available); fuser is \$200.38 and yields 60,000 pages.
- 1,060 watts is maximum power consumption.
- Copy speed rated at 20/3.3 ppm.

#### Best Use

Small and home offices, and small workgroups, that require office-like performance from an upgradeable compact A4 color MFP but do not require duplex scanning capability. A relatively high color cost per page means printing should consist of primarily B/W applications. In order to get the most out of this device, the duplexing automatic document feeder and 500-sheet paper drawer upgrades are recommended options.