

# What You Should Know

## Office Digital Imaging Product Evaluation

Wednesday, January 06, 2010 1:09:47 PM

# Sharp

## MX-M453N

A3 B/W 40-49 PPM MFPs  
Authorized Dealers



### Product Introduction



Sharp launched this system earlier in 2009 as part of its MX-M503/M453/M258 Frontier Series. N models' standard features include: a retractable keyboard; 8.5" color touch screen; ImageSEND scan/distribute; 100-sheet automatic document feeder with colorScan2 (automatically scans both sides of a two-sided original in a single pass); 1,200 x 1,200 dpi color scanning; and Sharp's OSA open-development platform, the last of which provides network protocols such as XML and SOAP for creating network applications that can be accessed from the touch screen. A broad range of document workflow and finishing options are available.

### Key Specifications and Pricing

Functions	Print/Copy/Scan/Fax	Std Media Capacity (sheets)	1,100	Price	\$11,390.00	€8,159.80	
Imaging Technology	Laser	Max Media Capacity (sheets)	5,600	Duplex	\$0.00	€0.00	
Monthly Duty Cycle (pages)	80,000	Max Media Sources	7	Print	\$0.00	€0.00	
BW/Color Print Speed (PPM)	45	Max Media Width (inches/mm)	11.0	279.4	Network	\$0.00	€0.00
Max Print Resolution (DPI)	1200x1200	Max Media Length (inches/mm)	17.0	431.8	Scan	\$0.00	€0.00
Std Printer Memory (MB)	1,000	Max Media Wt. (bond, lbs./gsm)	53.0	178.9	Doc Feeder	\$0.00	€0.00
Max Printer Memory (MB)	2,000	Height (inches/mm)	38.00	965.20	Media Trays	2x500 sheets	
Hard Drive (GB)	80	Width (inches/mm)	25.50	647.70	Price	\$1,075.00	€770.13
Hard Drive Overwrite	Yes	Depth (inches/mm)	27.50	698.50	LCT	\$1,495.00	€1,071.02
Ethernet Network Interface	10/100/1000BaseT	Weight (pounds/kg)	210.0	95.3	Finisher	Inner Finisher	
User Authentication	Yes	Power Consumption (watts)	1,440	Price	\$1,795.00	€1,285.94	

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

<b>Value</b>	<b>2.5</b>	<b>Copying</b>	<b>3.5</b>	<b>Scanning</b>	<b>4.0</b>	<b>Printing</b>	<b>3.5</b>												
<b>Overall Score</b>	<b>32.5</b>	Copier Score	<b>21.5</b>	Scanner Score	<b>20.5</b>	Printer Score	<b>25.0</b>												
Full System Price	\$11,390.00	Duplex Document Feeder	<input checked="" type="checkbox"/>	Color Scanning	<input checked="" type="checkbox"/>	Print Processor (MHz)	800												
Black Cost per Page		Touch Screen	<input checked="" type="checkbox"/>	Network Scanning	<input checked="" type="checkbox"/>	Maximum Memory (MB)	2,000												
Color Cost per Page		Hard Drive	<input checked="" type="checkbox"/>	Open Platform	<input checked="" type="checkbox"/>	BW/Color Print Speed	45												
Black TCO* (5k/mo)		<div style="text-align: center;"> <b>Wirth Consulting Performance Ratings</b>                      (from 0-5, with 5 being best)                 </div>						Windows <input checked="" type="checkbox"/> Linux <input checked="" type="checkbox"/>											
Color TCO* (5k/mo)								Apple Mac <input checked="" type="checkbox"/> PCL <input checked="" type="checkbox"/>											
Mixed** TCO* (5k/mo)								GDI Printing <input type="checkbox"/> PostScript <input checked="" type="checkbox"/>											
*Base Price; **67% BW and 33% Color																			
<b>Features</b>	<b>3.5</b>	<div style="text-align: center;"> <b>Image Quality</b> <b>3.0</b> </div> <table border="1"> <tr> <td>Imaging Technology</td> <td><b>Laser</b></td> </tr> <tr> <td>Max. Resolution</td> <td><b>1200x1200</b></td> </tr> <tr> <td>BW Office IQ</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Color Office IQ</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Professional IQ</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Photographic IQ</td> <td><input type="checkbox"/></td> </tr> </table>						Imaging Technology	<b>Laser</b>	Max. Resolution	<b>1200x1200</b>	BW Office IQ	<input checked="" type="checkbox"/>	Color Office IQ	<input type="checkbox"/>	Professional IQ	<input type="checkbox"/>	Photographic IQ	<input type="checkbox"/>
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USB Convenience Port	<input checked="" type="checkbox"/>																		
Scanner	<input checked="" type="checkbox"/>																		
Walk-Up Fax	<input checked="" type="checkbox"/>																		
LAN Fax	<input checked="" type="checkbox"/>																		
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Network Printing	<input checked="" type="checkbox"/>																		
<b>Media Handling</b>	<b>2.5</b>	<div style="text-align: center;"> <b>Software</b> <b>3.5</b> </div> <table border="1"> <tr> <td>Desktop Software</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Web Utilities</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Adobe PostScript</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Open Platform</td> <td><input checked="" type="checkbox"/></td> </tr> </table>						Desktop Software	<input checked="" type="checkbox"/>	Web Utilities	<input checked="" type="checkbox"/>	Adobe PostScript	<input type="checkbox"/>	Open Platform	<input checked="" type="checkbox"/>				
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Max Weight from all Sources	<input type="checkbox"/>																		
Finishing	<input checked="" type="checkbox"/>																		
<b>Maintenance</b>	<b>2.5</b>	<div style="text-align: center;"> <b>Ease of Use</b> <b>4.0</b> </div> <table border="1"> <tr> <td>Usability Score</td> <td><b>10.0</b></td> </tr> <tr> <td>Graphic Display</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Touch Screen</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Navigation Keys</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Holds Full Ream of Media</td> <td><input checked="" type="checkbox"/></td> </tr> </table>						Usability Score	<b>10.0</b>	Graphic Display	<input type="checkbox"/>	Touch Screen	<input checked="" type="checkbox"/>	Navigation Keys	<input type="checkbox"/>	Holds Full Ream of Media	<input checked="" type="checkbox"/>		
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Black Page Yield																			
All-in-One Toner Cartridge	<input type="checkbox"/>																		
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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						
Cyan Ink/Toner						
Magenta Ink/Toner						
Yellow Ink/Toner						
Multicolor Ink						
Other Type						
Other						
Maintenance Kit						

## Sharp MX-M453N



A3 B/W 40-49 PPM MFPs

## 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					
100 pages					
250 pages					
500 pages					
1,000 pages					
2,000 pages					
3,000 pages					
4,000 pages					
5,000 pages					

## Consumables CPP

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

<b>Black Cost Per Page</b>
Black Consumables Cost per Page
_____
<b>Color Cost Per Page</b>
Color Consumables Cost per Page
_____

### Strengths

- Windows 7 (32/64-bit) PCL 5e, PCL 6, PC FAX and PostScript 3/PPD print drivers
  - 100-sheet, 70-opm duplexing automatic document with colorScan2 technology for automatically scanning both sides of a two-sided original in a single pass.
  - USB convenience port for print from and scan to USB memory devices.
  - Color scan to: FTP, e-mail (supports LDAP), desktop, Internet fax, network folder, fax.
  - With ImageSend, users can scan and send documents to up to seven different destination types in a single operation.
  - Preview scanned images and files stored in hard-drive memory on the 8.5" touch screen.
  - Supports Sharp's OSA platform for creating custom workflow and device management applications accessible from the touch screen (supports XML and SOAP standards). OSA also supports integration of Web-based HTML, JAVA and Flash clips for integrating moving video on the touch screen.
  - Documents stored in hard-drive memory may also be accessed and printed via the system's embedded Web page at the user's computer workstation.
  - Sharp Administration Utility Suite for network management.
  - Security includes hard-drive erase and encryption (encrypt data up to 7 times), network authentication, IPSec, SSL Encryption, etc.
- OPTIONS: PostScript 3; Inner Finisher (\$N/A); 4,000-sheet Stacking Finisher (\$N/A); Saddle Stitch Finisher (\$N/A); Super Group 3 and Internet fax (\$N/A); Remote Front Panel software (\$N/A); PS3/XPS Kit (\$N/A); Bar Code (\$N/A); and Internet Fax (\$N/A).

### Limitations

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

### Notes

- Sharp does not publish consumables' pricing or yields.

### Best Use

Offices and mid-size to large workgroups that require an A3 office MFP and that have monochrome print, color scan, document-distribution and copy applications (optional fax), and who may also require state-of-the art customized workflow and print-management solutions via Sharp's OSA open-development platform.