

# SHARP

## MX-C381/MX-C311 MX-C380/MX-C310

Digital Full Colour Multifunctional System

Bringing Sharp Innovation and Style to the Office



COPY

NETWORK PRINT

NETWORK SCAN

SHARPEDESK

FAX  
OPTION

# Beyond the Conventional

Sharp's award-winning line of A3 MFDs has given rise to the MX-C381/C311 and MX-C380/C310—full-colour A4 MFDs quite unlike conventional A4 models. While still boasting the impressive speed, superb image quality, multi-layered security, and unsurpassed ease of use found in Sharp's A3 MFDs, these new-concept solutions take A4 MFD performance to a higher plane of excellence.

The MX-C381/C311/C380/C310 delivers four-in-one multifunction—copy, network print, network scan, and optional fax—in an eye-pleasing design and space-saving dimensions. The MX-C381/C311, built for IT-centric use, boasts an 8.5-inch touch-screen LCD, while the MX-C380/C310 features a 4.3-inch display. Sharp's MFD series offers super-speedy scanning and the control and convenience of Sharp OSA (Open Systems Architecture) customisation.



## MINIMAL SPACE, MAXIMUM STYLE

### *Stylish New Design*

A new dark-coloured control panel gives the MX-C381/C311/C380/C310 a distinct design advantage and brings polished chic to office settings. What's more, the entire machine—front, back, and sides—sports a unique textured surface that enhances décor in a way that conventional office equipment can not.

### *Small Footprint*

Despite an extremely small footprint—just 535 mm wide and 438 mm deep—the MX-C381/C311/C380/C310 does not compromise on performance. This powerful space saver can conveniently go to work on or next to a file cabinet, even with the finishing option installed.



## Super-Efficient Colour and B/W Output

The tandem printing engine with four in-line drums helps the MX-C381/C380 deliver a fast output of 38 cpm/ppm\*<sup>1</sup> (and the MX-C311/C310 in 31 cpm/ppm\*<sup>2</sup>) in full colour and in B/W. The first copy comes out in just 8.9 seconds in full colour and 8.0 seconds in B/W. What's more, its short, straight paper path minimises misfeeds to save you paper and toner costs.

\*1: A4; 40 cpm/ppm for 8 1/2" x 11" size

\*2: A4 (8 1/2" x 11")

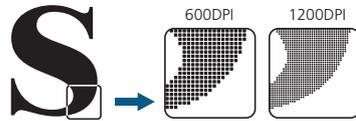




## SUPERB PRINT QUALITY

### True 1,200 x 1,200-dpi Printing

The MX-C381/C311/C380/C310's print engine provides razor-sharp 1,200-dpi printing—without sacrificing output speed—for ultra-clear image quality. Fine lines and small text come out crisper and easier to read.



### Improved Imaging System

Sharp thoroughly revamped its imaging process for the MX-C381/C311/C380/C310; now a high-performance processor, a new developer, and the newly developed high grade toner combine to provide breathtaking image quality. The smaller particle size of the toner and the developer allows for reduced graininess and clear reproduction of fine lines and halftone colours.



### Easy, High-Quality Copying

The MX-C381/C311/C380/C310 features **third-generation Sharp Auto Colour Mode**, anyone—with just a push of the start button—can easily and automatically make copies that are faithful to the original. Here's how it works. **Auto Colour Selection** automatically determines whether a page is colour or B/W and selects the appropriate copy mode for that page. **Auto Colour Mode** analyses the contents of each page, distinguishing between different components, such as photos and text. This is what allows the MX-C381/C311/C380/C310 to print out maps with crisp, clear text and to automatically remove the background colour on newspaper and magazine copies for clearer output. When copying in B/W, multi-level error diffusion technology provides dramatically smoother gradation in photos and subtle greyscale images.



#### Third-generation (3G) Sharp Auto Colour Mode



mills Text comes out crisp and clear



Auto recognition

# FULL-FUNCTION EASE

## 8.5-Inch Touch-Screen LCD MX-C381 MX-C311

The MX-C381/C311's logically designed control panel features a wide, clear, W-VGA-resolution touch-screen LCD with a choice of six screen colours. Pushing the Home button, even in the middle of an operation, takes you back to the Start screen. Additionally you can quickly access the most frequently used functions and settings by programming them into My Menu.



Home screen



QWERTY keyboard screen



## 4.3-Inch Colour LCD MX-C380 MX-C310

The control panel on the MX-C380/C310 features a 4.3-inch colour LCD that conveniently displays job-progress information and other items. The control panel also boasts a special Shortcut Key for easy access to frequently used settings and Sharp OSA (Open Systems Architecture) applications.

Note: See page 6 for more information on Sharp OSA.



## Job Status Screen MX-C381 MX-C311

- Whether printing or copying, the MX-C381/C311's control panel displays a list of all jobs, showing you at a glance the jobs in progress and the position of your job in the queue. With a few quick touches of the LCD screen, the Priority Printing function lets you easily change the job queue order or delete jobs that are no longer needed.
- On the right side of the LCD, you'll find a simplified version of the Job Status display. This lets you quickly confirm the first four jobs in the queue without having to go to the Job Status screen. The display also provides a quick rundown on MFD system status.



Job status

## USB Memory-Ready

The MX-C381/C311/C380/C310 offers a whole new level of convenience with two USB ports. One of those ports is located at the front of the MFD right beneath the control panel. It comes in handy when scanning documents directly to USB memory devices or printing data directly from USB memory devices—an indispensable function for users who are in a hurry or who want quick machine access without a PC.



## Business Card Feeder\*

The optional Business Card Feeder automatically feeds in and scans business cards and can be used with commercially available business card scan software to create business card databases. A pocket on the left side of the MFP provides handy storage of the Business Card Feeder.

\* Available at a later date



## Thumbnail Display\* and Previews

- Making the search for files easier and more convenient than ever, thumbnails and up-close previews of Document Filing data files, as well as conventional file names, can be displayed on the MX-C381/C311's LCD control panel. To help users decide which documents to print out, the LCD can also display thumbnails and previews of incoming faxes and Internet faxes.
- The MX-C380/310's LCD control panel displays previews of incoming faxes and Internet faxes as well as previews of fax data stored in the Memory Box.

\* Available on MX-C381/C311's 8.5-inch LCD



Thumbnail display\*



Preview display  
(on MX-C381/C311's 8.5-inch LCD)

# PRODUCTIVE PERFORMANCE

## Quick Scanning and RSPF

With a scanning speed of 33 opm\*<sup>1</sup> (A4 size) or 35 opm\*<sup>1</sup> (letter size)—the fastest scan speed in the A4 MFD category\*<sup>2</sup>—the MX-C381/C311/C380/C310 can complete large scan jobs with ease and efficiency. The standard-equipped **50-sheet RSPF** (reversing single pass feeder), which smoothly feeds in both one- and two-sided originals, brings added efficiency.

\*1: Single-side feeding. opm: originals per minute  
\*2: As of September 2008



## Built-in Stackless Duplex Module

The built-in stackless duplex module on the MX-C381/C311/C380/C310—particularly effective when used with RSPF—reduces paper costs and saves filing space by making two-sided copies and printouts.

## Colour Network Scanning

- The MX-C381/C311/C380/C310 works as a full-colour network scanner that can be used with any Windows PC on the network. It supports TIFF, PDF, encrypted PDF, JPEG, and the new XPS (XML Paper Specification) file formats. The Auto Colour Selection chooses the right mode for scanning originals containing both colour and B/W pages (see page 3).
- With the touch of a few buttons, you can choose different ways to distribute your scanned documents. **Scan to E-mail** sends documents as an e-mail attachment. **Scan to FTP Server** scans documents directly to an FTP server for storage. **Scan to Desktop** sends scanned documents directly to your PC desktop. **Scan to Network Folder (SMB)** sends files to a shared folder on a networked Windows PC. **Scan to USB Memory** scans documents directly to USB memory devices. **Scan to Fax** enables conventional faxing or Internet faxing.

## High-Speed Faxing

The optional MX-FXX3 Fax Expansion Kit turns the MX-C381/C311/C380/C310 into a 33.6 Kbps **Super G3 fax**. Using JBIG compression technology, the MX-C381/C311/C380/C310 can send an A4 size page in under 3 seconds\*. Use the 50-sheet RSPF to further boost faxing efficiency. Additionally, **Quick On-Line Transmission** can start dialling and transmitting as soon as the first page is scanned into memory, allowing you to send documents in **even less time**.

\* Based on Sharp's standard chart with approximately 700 characters (A4 long edge feeding) at standard resolution.

# MULTI-LAYERED SECURITY

## Data Security Kit

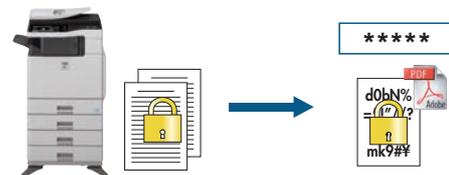
Digital copier/printers or MFDs can retain hundreds of pages of confidential information from previous jobs on their hard disks or internal memory. To safeguard this information from unauthorised access, the optional **Data Security Kit** automatically **encrypts and erases** the data after each job is complete as well as data stored on the hard disk.

## Secure Network Access

The MX-C381/C311/C380/C310's **IP/MAC address filtering** function provides highly secure operation by restricting access to the MX-C381/C311/C380/C310 on your office network. Only PCs that have either their IP address or MAC (media access control) address registered are allowed to use the MX-C381/C311/C380/C310. Attempted access from an unknown IP or MAC address will be denied, preventing unauthorised use. The MX-C381/C311/C380/C310 also supports the **IEEE 802.1X** standard for port-based network access control, which blocks all access from unauthorised devices.

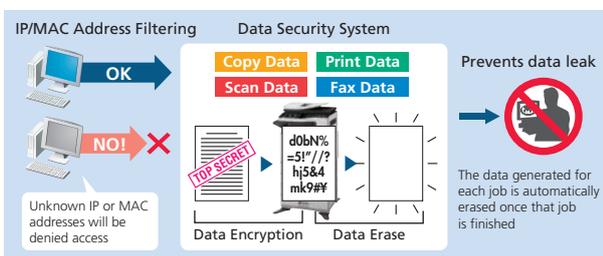
## Encrypted PDF with Password Protection

To prevent unauthorised viewing of confidential image data, the MX-C381/C311/C380/C310 enables users to password protect and encrypt PDF data. By setting a password when scanning, users can transmit a PDF over the network in encrypted format. Then, after transmission, viewers will only gain access to the encrypted PDF after successfully re-entering the chosen password.



Scanned data is encrypted

Requests password entry for viewing the file



## Document Control Function

Document Control prevents unauthorised copying, scanning, faxing, and filing of confidential documents. This is how it works: the MX-C381/C311/C380/C310 embeds copy prevention data onto a document when it is first copied or printed. It will then detect this data the next time someone tries to make a copy of the document. Any unauthorised attempts to copy a Document Controlled-document will simply be cancelled or result in the output of a blank page.

Note: Requires optional Data Security Kit. May not work for certain types of documents or paper.

## Space-Efficient Inner Finisher

The MX-C381/C311/C380/C310's optional inner finisher can be added on without taking up much space. It automates time-consuming tasks, such as sorting and stapling\* documents of up to 30 pages, and stacks each job slightly apart from the previous one (offset stacking) for easy retrieval.

\* For one-corner stapling only



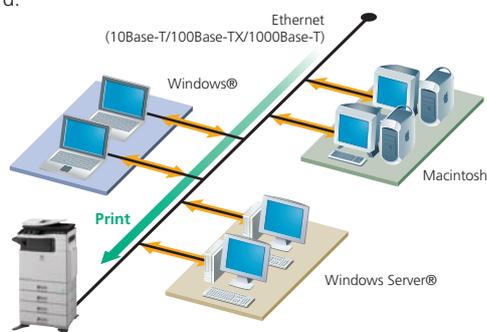
## Large Paper Capacity

The MX-C381/C311/C380/C310 comes standard with a 500-sheet paper tray and a 100-sheet multi-bypass feeder. Two types of extra paper drawers are available for a total paper capacity of up to **2,100 sheets**. When a tray runs out of paper, the **Auto Tray Switching** function automatically switches to another paper tray filled with the same size paper.



## Supports Most Office Environments

The MX-C381/C311/C380/C310 works as a network printer with the latest and most commonly used operating systems and network protocols, including **IPv6**, and even in mixed OS environments. With a 64-bit, 800 MHz CPU, you get fast, powerful network printing via the 1000Base-T Gigabit Ethernet standard.



## Sharp OSA (Open Systems Architecture)

The MX-C381/C311/C380/C310 supports the **Sharp OSA 3.0\*** development platform. This innovative, third-generation technology allows users to interact with critical business and network applications and/or external account software right from the LCD control panel, offering a new realm of control and convenience. Since Sharp OSA 3.0 utilises industry-standard network protocols, such as XML and SOAP, the MX-C381/C311/C380/C310 can easily integrate with document management systems, enterprise resource planning software, workflow applications, and more.

\* Requires optional MX-AMX2 and/or MX-AMX3



Note: The screen shown to the left is just a sample. Screen layouts and user interfaces can be specifically designed to accommodate customised application programs.



## Print Hold and Confidential Print

To keep others from seeing confidential documents as they are being printed out, the MX-C381/C311/C380/C310's Print Hold function stores print data on its hard disk and withholds output until the user executes a print command from the control panel. For added security, the Confidential Print function requires the user to enter in a PIN (personal identification number) at the machine before printing can begin.

## User Authentication

The MX-C381/C311/C380/C310 prevents unauthorised use by requiring passwords for machine access. The MX-C381/C311/C380/C310 can register up to 1,000 users in three access levels as Administrator, User, and Guest. It can also designate to which function user authentication applies. For example, the MX-C381/C311/C380/C310 can be set to allow B/W copying by all users while restricting colour copying to designated users.

## Secure Sockets Layer

SSL (secure sockets layer) enables the encryption of data communications to prevent data leakage through the network when printing via IPP, browsing secure Web pages (HTTPS), or communicating via e-mail (SMTP and POP3) or FTP (FTPS).

## IPv6 and IPsec Support

The MX-C381/C311/C380/C310 supports IPv6, the next-generation Internet protocol. An obligatory part of IPv6 is IPsec (IP Security), a set of protocols for securing Internet protocol (IP) communications. IPsec encrypts and authenticates traffic between specified parties, giving IPsec-compatible products an extremely high level of network security.

## SYSTEM CONFIGURATION & OPTIONS

<p><b>BASE UNIT</b></p>			
<p><b>MX-FN12</b> Finisher</p>	<p><b>MX-BTX1*</b> Business Card Feeder</p>	<p><b>MX-FX3</b> Fax Expansion Kit</p>	<p><b>AR-PF1</b> Barcode Font Kit</p>
<p><b>MX-CSX1</b> 500-Sheet Paper Feed Unit</p>	<p><b>MX-CSX1</b> 500-Sheet Paper Feed Unit</p>	<p><b>MX-CSX1</b> 500-Sheet Paper Feed Unit</p>	<p><b>MX-ARSMX3</b> Expansion Memory Board</p>
<p><b>MX-CSX2</b> 500-Sheet Paper Feed Unit</p>	<p><b>MX-CSX2</b> 500-Sheet Paper Feed Unit</p>	<p><b>MX-CSX2</b> 500-Sheet Paper Feed Unit</p>	<p><b>MX-FWX1</b> Internet Fax Expansion Kit</p>
			<p><b>MX-USX1/X5</b> Sharpdesk 1/5-License Kit</p>
			<p><b>MX-US10/50/A0</b> Sharpdesk 10/50/100-License Kit</p>
			<p><b>MX-AMX2</b> Application Communication Module</p>
			<p><b>MX-AMX3</b> External Account Module</p>
			<p><b>Options for MX-C381/C311</b></p>
	<p><b>MX-FR13U*</b> Data Security Kit</p>	<p><b>MX-FR13*</b> Data Security Kit (Common Criteria validated)</p>	<p><b>Options for MX-C380/C310</b></p>
			<p><b>MX-PKX5</b> PS3 Expansion Kit</p>
			<p><b>MX-FR12*</b> Data Security Kit (Common Criteria validated)</p>
			<p><b>MX-FR12U*</b> Data Security Kit</p>

Note: Certain options may not be available in some areas. The base unit can be attached to locally available cabinets either on its own or along with optional paper feed unit(s). Consult your local dealer for details. \* Available at a later date.

# MX-C381/C311/C380/C310 Digital Full Colour Multifunctional System

## SPECIFICATIONS

General		
Type	Desktop	
Engine speed (colour & B/W)	MX-C381/C380	Max. 38 cpm/ppm (A4) Max. 40 cpm/ppm (8 1/2" x 11")
	MX-C311/C310	Max. 31 cpm/ppm (A4, 8 1/2" x 11")
Paper size	Max. A4, min. A5	
Paper capacity (80 g/m <sup>2</sup> )	Standard: 600 sheets (500-sheet tray and 100-sheet multi-bypass tray)	
Warm-up time*1	Maximum: 2,100 sheets Less than 90 sec.	
Memory	MX-C381/C380	Copier memory: Standard 512MB Printer memory: Standard 1GB, max. 2GB
	MX-C311/C310	Copier memory: Standard 512MB Printer memory: Standard 512MB, max. 1.5GB
	80GB HDD*2	
Power requirements	230-240V AC, 50/60 Hz	
Power consumption (max.)	1.84 kW	
Dimensions (W x D x H)	MX-C381/C311	560 x 493 x 714 mm
	MX-C380/C310	560 x 438 x 714 mm
Weight	Approx. 46 kg	
Features	Document filing, document control, toner save mode, auto calibration, user authentication (1,000 accounts), pre-heat/auto power shut-off modes	

Copier		
Original paper size	Max. A4	
First copy time*3	Full colour: 8.9 sec.	B/W: 8.0 sec.
Continuous copy	Max. 999 copies	
Resolution	Scan: 600 x 600 dpi, 600 x 300 dpi Print: 1,200 x 1,200 dpi	
Gradation	Equivalent to 256 levels	
Zoom range	50 to 200% in 1% increments	
Preset copy ratios	8 ratios (4R/4E), Auto paper selection (mixed size feeding [letter/legal only]), auto magnification selection, paper type selection, auto tray switching, rotation copy, electronic sorting, margin shift, multi-shot (2-in-1), transparency insertion, pamphlet copy, 2-sided copy orientation change, XY zoom, B/W reverse, mirror image, duplex copy, job reservation, job programme, image repeat, irregular original/paper size input, stamps (date, page number, text, stamp), centering, proof copy (MX-C381/C311), 3G Sharp auto colour mode, auto colour selection, card shot, edge erase, job build	
Features*4		

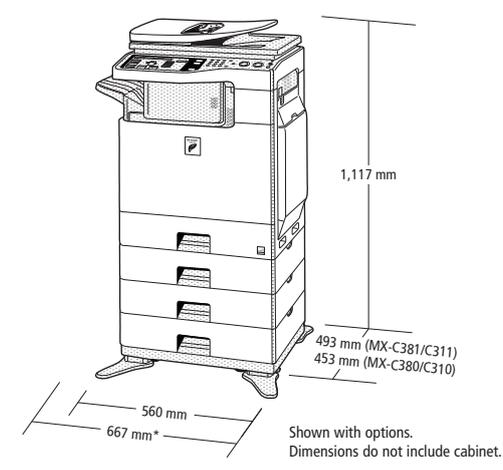
Network Scanner		
Scan method	Push scan (via control panel), pull scan (TWAIN-compliant application)	
Resolution	Push scan: 100, 200, 300, 400, 600 dpi Pull scan: 75, 100, 150, 200, 300, 400, 600 dpi 50 to 9,600 dpi	
File formats	TIFF, PDF, encrypted PDF, JPEG (colour only), XPS*5	
Scanner utility	Sharpdesk	
Scan destinations	Scan to e-mail, desktop, FTP server, network folder, USB memory	
Features	Internet fax*6, PC-Internet fax transmission*6, 3G Sharp auto colour mode, mixed size original scanning (letter/legal only), LDAP support, direct entry (address, subject, message), 999 one-touch dials, 500 group dials, 48 job programmes, broadcasting, long original scanning (max. 500 mm), auto colour selection, card shot, edge erase, job build	

Document Filing		
Document filing capacity	MX-C381/C311	Main and custom folders: 38GB, 5,500 pages*7 or 3,000 files Quick file folder: 12GB, 1,700 pages*7 or 1,000 files
	MX-C380/C310	Main folder: 38GB, 5,500 pages*7 or 3,000 files
Stored jobs*7	MX-C381/C311	Copy, print, scan, fax transmission
	MX-C380/C310	Print
Storage folders	MX-C381/C311	Quick file folder, main folder, custom folder (max. 1,000 folders)
	MX-C380/C310	Main folder
Confidential storage	Password protection	

\* 1 : At rated voltage, 23C \*2: HDD capacity depends on procurement and sourcing status.  
\* 3 : When feeding A4 sheets from 1st paper tray, using document glass, without Auto Colour Selection and Auto Colour mode, polygon motor running. \*4: Some features require option(s).  
\* 5 : To view XPS files on PCs not running Windows Vista, you must have the XPS Viewer application installed.  
\* 6 : Optional MX-FWX1 required.  
\* 7 : Measured using Sharp's standard chart (A4 with 6% coverage, B/W). The Quick File Folder (MX-C380/C310: Main Folder) shares the HDD with the Job Build function; up to 12GB of data storage is available when using both functions. The storage capacity will be less for colour pages.  
\* 8 : MX-C380/C310: Optional MX-PKX5 required for Mac OS and EtherTalk.  
\* 9 : XPS requires optional MX-PUX1 and MX-ARSMX3. MX-C380/C310: PS requires optional MX-PKX5.  
\* 10 : Some features are not available according to the printer driver used.  
\* 11 : Based on Sharp's standard chart with approx. 700 characters (A4 long edge feeding) at standard resolution in Super G3 mode, 33,600 bps, JBIG compression.

Network Printer	
Resolution	1,200 x 1,200 dpi
Interface	USB 2.0 10Base-T/100Base-TX/1000Base-T
Supported OS*8	Windows NT® 4.0 SP5 or later, Windows Server® 2003/2008, Windows® 98/Me/2000/XP, Windows Vista® Mac OS 9.0 to 9.2.2, Mac OS X 10.2.8, 10.3.9, 10.4 to 10.4.11, 10.5 to 10.5.1
Network protocols*8	TCP/IP (IPv4, IPv6), IPX/SPX (NetWare), NetBEUI, EtherTalk (AppleTalk)
Printing protocols	LPR, Raw TCP (port 9100), POP3 (e-mail printing), HTTP, Novell Printserver application with NDS and Bindery, FTP for downloading print files, EtherTalk printing, IPP
PDL (emulation)	MX-C381/C311 Standard: PCL 6/5c emulation, PS3 emulation Option: XPS*9 MX-C380/C310 Standard: PCL 6/5c emulation Option*9: XPS, PS3 emulation
Available fonts	80 fonts for PCL, 136 fonts for PS3 emulation
Features*4 *10	RIP Once/Print Many, job retention (print hold, proof print, confidential print), direct PDF/TIFF/JPEG/XPS printing, carbon copy print, duplex print, font/form download, offset output, printer administration utility and status monitor, pamphlet style, IP/MAC address filtering, port/protocol management, binding edge, N-up (2/4/6/8/9/16), paper/output tray selection, cover insertion, transparency interleave, fit to page, watermarks, form overlay, auto configuration, barcode font compatibility, poster print, secure network communications (SSL and IPsec [LPD])

B/W Facsimile (optional MX-FXX3 required)	
Compression method	MH/MR/MMR/JBIG
Communication protocol	Super G3/G3
Transmission time	Less than 3 seconds*11
Modem speed	33,600 bps to 2,400 bps with automatic fallback
Transmission resolution	From Standard (203.2 x 97.8 dpi) to Super Fine (406.4 x 391 dpi)
Recording width	A4 to A5
Memory	8MB flash memory
Grey scale levels	Equivalent to 256 levels
Features	Duplex transmission/reception, quick on-line transmission, error correction mode, 999 one-touch dials, 500 group dials, LDAP support, 48 job programmes, broadcasting number registration, F-Code compatibility (confidential, relay broadcast), polling, memory transmission/reception, auto reduction (transmission/reception), rotation transmission/reception, print actual size, long original transmission (max. 500 mm), PC-Fax transmission, timer transmission, inbound routing to e-mail, activity report, anti-junk fax, dual page scan, memory box preview, fax/Internet fax/direct SMTP reception data preview



\* 715 mm with inner finisher tray extended.  
Max. width 1,023 mm with inner finisher tray extended and multi-bypass tray opened.

- Design and specifications are subject to change without prior notice.
- Colour variations to products may occur due to printing.
- Some features require Optional items. Please consult with an authorised Sharp Reseller for details.
- All information and technical details are correct as at machine release date.
- Windows, Windows NT, Windows Server, and Windows Vista are registered trademarks of Microsoft Corporation in the United States and/or other countries. All other brand names and product names may be trademarks or registered trademarks of their respective owners.
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