

MXC312

100th
ANNIVERSARY

MFP PERFORMANCE ANYWHERE YOU NEED IT



THE RENAISSANCE OF COLOUR

the **SHARP** experience

see what happens

SHARP

POWERFUL PERFORMANCE
IN A COMPACT DESIGN

powerful



A flexible design for setup in countertop or floor-standing console configurations, expandable to 4-tray console with a maximum paper capacity of 2,100 sheets.

Sharp combines the **SIMPLICITY AND CONVENIENCE** of network printers with the **MULTI-TASKING PRODUCTIVITY** of colour MFPs to achieve the best of both worlds.

The MXC312 is an exciting examples of the **SHARP® FRONTIER SERIES**, bringing brilliant colour output closer to your workgroup with a **HYBRID DESIGN** that has a small footprint to fit into environments others won't, yet isn't small on functionality.

The **7" WIDE COLOUR TOUCH-SCREEN** simplifies operation by providing an intuitive user interface to keep ahead of today's fast-paced office document distribution needs. With

Sharp's **COMMON CONTROLLER ARCHITECTURE**, the Frontier Series provides uniform functionality and operability as found in Sharp's **AWARD-WINNING MFP PRODUCT LINE**.

Engineered to help reduce operating costs and downtime, the MXC312 is easier than ever to set up, monitor, and maintain and offers modular expandability, remote-access capabilities,

and a **VALUE-ADDED APPROACH** to network and software integration. The latest in a long line of innovative Multifunction Document Systems, the MXC312 incorporates Sharp's **AWARD-**

WINNING Sharp **OSA® DEVELOPMENT PLATFORM** and industry-leading security suite to help protect data and control access. In action, their ease and versatility will change your mind

about MFPs. More power, less complexity...that's **WORK WITHOUT LIMITS**.

PRODUCTIVITY IN ACTION TO SPEED OUTPUT AND STREAMLINE DOCUMENT WORKFLOW

The Sharp MXC312 brings fast output, superior colour quality and a compact

footprint closer to the workgroup.

Advanced and easy to operate features will help maximize efficiency, simplify

- Vivid colour and crisp black-and-white documents can be quickly and accurately produced at speeds up to **31 pages per minute**.
- Powerful 800 MHz controller for **true multi-tasking** performance and increased multi-functional productivity.
- Standard **PCL®6** and **PostScript® compatible** printing systems with available XPS option.
- Sharp's powerful **ImageSEND™** technology securely scans documents to up to seven destinations, including USB devices, network folders, e-mail, fax machines and desktop PCs, at speeds up to 35 images per minute. You get one-touch distribution features that centralize document workflow helping save time and money.
- Third-generation Sharp OSA development platform enables users to **access network applications** directly from the device's touch-panel display, helping to **reduce redundancy and streamline workflow**.



workflow

document workflow and reduce operating expense. Incorporating Sharp's next-generation common controller architecture, this powerful multi-tasking MFP meets the fast-paced needs of today's modern office.



- **Optional Inner Finisher** can be added without taking up much additional space. The space-efficient finisher not only provides exceptional productivity but also automates time-consuming tasks such as stapling, sorting and offset stacking.
- **Direct USB Scanning and Printing** provides a whole new level of convenience. It comes in handy for scanning documents directly to a USB memory device and is an easy way to print PDF documents.
- Sharp's easy-to-use Document Filing System provides robust hard drive space for **fast document storage and retrieval**, with **thumbnail view and image preview modes** that allow users to easily locate, identify and retrieve files.
- The **Remote Front Panel** feature allows administrators and help desk professionals to access and control the device from a remote PC workstation. This feature can also be used to help facilitate key operator training.
- The optional **Super G3 Fax Kit** with intelligent Inbound Fax Routing delivers lightning-fast faxing for busy workgroups.
- With **Sharpdesk® personal document management software**, users can easily organize their scanned documents and integrate them into everyday workflow.



Optional business card feeder.



Front Panel USB 2.0 port for easy access.

USER-FRIENDLY, ECO-FRIENDLY OPERATION TO HELP SPEED WORK, PROLONG LIFE AND REDUCE COST



The Sharp MXC312 is designed to minimize service requirements and maximize uptime. The MXC312 employs long-life, quick-replace cartridges to help extend supplies replenishment intervals and dramatically reduce downtime. Maintenance is trouble-free, with clean and simple replacement of supplies and machine maintenance procedures that can be performed quickly and easily by service technicians or help desk professionals.

- By utilizing a long-life **tri-component supplies** system consisting of individual toner, developer and drum cartridges, the working life of developer and drums is significantly prolonged—and consumables yield can be up to **six times higher** than that of typical mono-unit consumable systems.
- As part of our commitment to helping preserve the environment, Sharp offers customers a toner recycling program for all Sharp copiers and MFP products. Sharp encourages customers to recycle their used Sharp toner cartridges by providing a pre-paid shipping label for their return to our facility. Please visit <http://www.sharp.ca/en-CA/AboutUs/SharpAndTheEnvironment/Recycling.aspx> to learn more.
- Supplies can be replenished with **no mess and no tools required**. Maintenance parts such as primary transfer belt, transfer roller, fuser, paper feed rollers and document feed rollers are also designed for quick, tool-free replacement.
- Power consumption on the MXC312 is among the lowest in its class. These models comply with the Energy Star™ Program and the RoHS program to minimize energy consumption and the use of chemicals and materials that can harm the environment.
- Built on a sophisticated and **rugged unibody frame**, the MXC312 is constructed to absorb vibration, reduce operating noise, and consistently produce superior image quality.
- Sharp's **second-generation micro-fine toner technology** and new developer combine to reduce graininess, produce clear reproduction of fine lines and halftone colours, and offer a lower consumption rate than conventional toner. The result is breathtaking image quality, less packaging materials and longer replacement intervals.

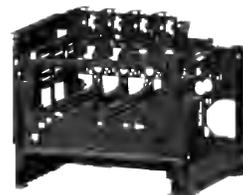
- As a testament to our commitment to the environment, Sharp is a three-time winner of the **ENERGY STAR®** annual **Excellence in Energy Proficiency Product Design**. Sharp was also a previous recipient of the Excellence in Partnership **Green Contractor Award** and the **Evergreen Award** from the General Services Administration (GSA) and the Coalition for Government Procurement. These awards recognize environmentally responsible businesses and their efforts on recycling, waste reduction and affirmative procurement practices.



- Sharp is committed to environmental sustainability and corporate responsibility including planning, design, manufacturing, distribution and product end-of-life management. For more information about Sharp's environmental leadership including information about energy efficient products, electronics or toner cartridge recycling, please visit <http://www.sharp.ca/en-CA/AboutUs/SharpAndTheEnvironment.aspx> to learn more.



Quick Replace Cartridges for Easy Maintenance
This design makes service and general maintenance easier without the need to disassemble the entire machine.



Highly-Rigid Main Frame
Helps better protect and isolate critical machine components.

PERSONALIZED AND VERSATILE
APPLICATION INTEGRATION

versatile



Sharp OSA® technology at a glance

- Automate tasks and save time with seamless integration between the MXC312 and network applications
- Centralized applications minimize set-up and installation on multiple Sharp products
- Virtually eliminates repetitive tasks and streamlines workflow, increasing efficiency
- Maximize your return on investment with tighter integration among IT assets
- Industry standard programming leads to faster deployment of new solutions



Today's multifunction products must be versatile enough to handle fast-changing system requirements and security demands. For Sharp, that's a given—but we've gone much further.

Designed for today's mobile and flexible workplace, the MXC312 supports the

AWARD-WINNING SHARP OSA development platform. This **TECHNOLOGY** delivers

unparalleled efficiency, control and convenience. With **SEAMLESS INTEGRATION**, Sharp

OSA-developed applications provide a window into your business applications, so you can

access what you need, when you need it, right from the touch panel. With the ability to

PERSONALIZE APPLICATIONS and processes specific to your business, Sharp OSA

technology can help eliminate redundancy and streamline workflow. Utilizing **INDUSTRY**

STANDARD NETWORK PROTOCOLS, such as **XML** and **SOAP**, Sharp OSA technology

allows these MFPs to communicate with many different applications. As your integration and

workflow needs change, count on Sharp's scalable technology to help **KEEP YOU AHEAD**.

PROVEN PROTECTION FOR CONFIDENTIAL DATA, DEVICE ACCESS AND NETWORK SAFEGUARDS

To help protect your data, the MXC312 offers several layers of security, making Sharp the optimum choice to help protect employees privacy and intellectual property.* As a leader in office equipment security, Sharp makes it easy for virtually any business or government entity to safely deploy digital copying, printing, scanning and faxing.

The exchange of digital documents in the 21st century creates new challenges for network security. Sharp has developed an award-winning, multi-layered security system to help protect valuable



Authority Group and Access Control

Advanced account management enables administrators to set authority groups for access to features of the MXC312. Administrators can control which department, for instance, has full access to colour copying, printing, scanning and/or fax. Walk up users enter a code, Local Name and Password, or LDAP User Authentication to access their features assigned to their group. Users can also login utilizing a human interface device (HID) such as a Smartcard.*



Documents Remain Confidential

To help protect your printed documents from unauthorized viewing, the MXC312 offers encrypted PDF files for printing and scanning as well as **Confidential Printing** that requires users to enter a PIN code in order to print a queued document. Additionally, **Secure Fax Release** ensures received fax documents are held in memory until an authorized user enters a PIN code.



information and maintain employee confidentiality. No company has more experience in maintaining digital security—so corporate end-users and IT professionals can count on the proven safeguards of the MXC312.



Data Erase and Encryption

To help protect your data, the MXC312 Series offers an optional data security kit that encrypts document data using **AES (Advanced Encryption Standard) encryption**. Additionally, the data security kit erases the temporary memory on the hard drive by overwriting the encrypted data up to seven times, offering an unprecedented level of assurance.



Control Device Access Over the Network

To help restrict access to the device over the network, the MXC312 offers IPsec, SMB and extended support for **SSL Encryption (Secure Sockets Layer)**, **IP/MAC address filtering**, IEEE 802.1x authentication, protocol enable/disable and port management for maximum security.



Network Scanning Access

To help protect your network from unauthorized E-mail communications, the MXC312 supports **User Authentication**, requiring users to login before performing any network scanning operations.



Tracking and Auditing Information

Legislation and industry policies require companies to be more aware of information flow from their offices. Sharp offers both built-in and additional hardware/software which allows users to control, access and track usage of each device on the network.



These scalable security offerings aim to protect your intellectual property, preserve confidential information and help your business to meet regulatory requirements, such as the Personal Information Protection and Electronic Documents Act (PIPEDA).

* Some features require optional equipment.

DEVICE MANAGEMENT MAXIMIZES PRODUCTIVITY AND CONTROL



24/7 Online Training with My Sharp™
Managing all of the advanced features of your Sharp product is simple and easy. This dedicated customer training website is customized to your MXG312 and allows you to locate resources and find information specific to your configuration, truly helping you maximize your investment.

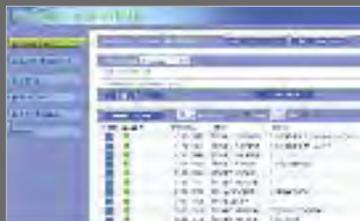
Sharp's MXG312 combines integrated, user-friendly software with robust device management technology to help IT professionals manage usage, control costs and minimize downtime. To maximize opportunities while reducing document and support costs, office environments must **MANAGE DOCUMENT WORKFLOW** with greater intelligence. The Sharp **ADMINISTRATION UTILITY SUITE** is designed to do just that. It allows administrators to **MANAGE DEVICES** more efficiently. They can remotely manage the set-up, configuration, device settings and more! The convenience of an Embedded Web Page gives users advanced **WEB-BASED MANAGEMENT TOOL** of network scanning, profiles and web-links—while administrators can access device settings,

manage

colour controls, account information and security settings to help **SAVE TIME** and **IMPROVE PRODUCTIVITY**. Sharp's device management system lets you **TAKE CHARGE** of colour usage and costs. The **REMOTE FRONT PANEL** feature allows help desk professionals and support personnel to view and control the device's LCD Panel remotely from any authorized networked PC. Our Printer Status Monitor lets network users **VIEW PRINTER CONDITIONS**, check paper and toner levels right from the workstation. Powerful and Intuitive **SHARPEDESK® SOFTWARE** enables individuals **GREATER CONTROL OF SCANNED DOCUMENTS**.



Printer Status Monitor



Printer Administration Utility



Embedded Web Page



Remote Front Panel

MXC312 SPECIFICATIONS

Main Specifications

MXC312	Includes multi-tasking controller, 80 GB HDD with document filing system, PCL [®] 5c/PCL6/PostScript [®] 3 network printing, network scanning, 50-sheet RSPF, auto-duplex, 500-sheet paper drawers and 100-sheet bypass. Black and colour developer is included in the box.
Type	Colour multi-function digital document system
Functions	Copy, print, network print, network scan, document filing and fax ¹
Copy System	Dry electrostatic transfer/Dual component developer/Magnetic brush development/OPC drums/Heat Roller fusing/Xenon Lamp Exposure
Originals	Sheets and Bound Documents
Max Original Size	8-1/2" x 14"
Copy Size	Min 5-1/2" x 8-1/2"/Max 8-1/2" x 14"
Copy Speed	31 ppm B&W/Colour (Letter)
Multiple Copy	Max: 999 copies
First Copy Time	Platen glass: 8.0 sec or less (B&W); 8.9 sec or less (colour) RSPF: 9.9 sec or less (B&W); 11.5 sec or less (colour)*
Warm-Up Time	90 seconds or less*
Magnification	50% to 200% in 1% increments (50 to 200% for RSPF)
Original Feed	50-sheet RSPF with original size detection
Scan Speed	Copy mode (Simplex): Up to 35 ipm (B&W or colour) @ 600 X 300 dpi. Network Scan (Simplex): Up to 35 ipm (B&W or colour) @ 200 x 200 dpi.
Original Sizes	5-1/2 x 8-1/2 / 8-1/2 x 14 (15-lb bond to 110-lb index)
Paper Feed System	Standard: 500 sheet paper drawer (Letter/Legal) and 100-sheet bypass tray (Letter/Legal). Optional: Up to 3 additional 500-sheet paper drawers (Letter/Legal) ²
Paper Types	Paper drawers: 16-28 lb. bond. Other paper types include: plain, pre-printed, recycled, pre-punched, letterhead, and colour paper. Bypass Tray: 16-28 lb. bond (plain paper), 15-16 lb. (thin paper), 28 lb. bond-110 lb. index (heavy paper), 20-24 lb. (Monarch/Com-10 envelope). Other types include label paper, gloss paper, pre-printed, recycled, pre-punched, letterhead, colour film and OHP Film.
Duplexing	Standard automatic duplex copying and printing
CPU	Power QUICCII-MPC8533E/800MHz
Interface	RJ-45 Ethernet (10Base-T/100Base-TX/1000Base-T), USB 2.0 (Host Port), USB 2.0 (Device Port)
Memory	Standard 1 GB (copier); 512 MB (printer/network scanning) memory
Hard Disk Drive	80 GB; up to 50 GB document filing system
Copy Resolution	Scan: B&W/Colour: 600 dpi; Copy output: B&W/Colour 600 dpi
Colour Modes	Auto Colour Control, Full Colour Mode, Monochrome (B&W), 2 Colour Mode, Single Colour Mode.
Exposure Control	Modes: Automatic (Colour: Magical View, B&W: Character AE) Text, Text/Photo, Text/Printed-Photo, Printed-Photo, Photo, Map, Pale-Colour document. Settings: Auto exposure control or 9 step manual exposure.
Halftone	256 gradations/2 levels (monochrome)
Copy Features	Scan-Once-Print-Many, electronic sorting, Auto Colour Sensing (ACS), Auto Paper Sensing (APS), Auto Magnification Sensing (AMS), Auto Tray Switching (ATS), rotation copy, reverse copy, margin shift, edge erase, OHP insertion, card shot, reverse image, black-white reversal, centering, proof copy, 2-in-1, photo repeat, document filing, job programs, date/character/page stamp (colour)
Account Control	Up to 1000 users. Supports user-number authentication (on device), login name/management, date/character/page stamp (colour), Copy, Print, Scan, Fax and Document Management
Output Tray Capacity	Main output tray (top) 250 sheets (face down)
Firmware Management	Flash ROM with local (USB); network update capability and firmware update 1 to N with PAU (Printer Administration Utility)
Configuration Method	Web-based management system with user/administrator level login security, cloning (1 to N) with PAU and remote front panel access
Service/Maintenance	Remote Front Panel Access to service logs and click counts
Power	AC 100-127VAC, 60HZ, 12 AMPS
Power Consumption	Maximum: 1.44kW or less.

* May vary depending on product configuration, machine settings and operating and/or environmental conditions.

¹ Some features require optional equipment

² Paper capacity is based on letter size paper

³ Actual transmission time will vary based on line conditions

⁴ Based on Sharp Standard Test Chart with approximately 700 characters, letter size in standard resolution

Weight	Approx. 102 lbs (base model)
Dimensions	22-3/64" x 17-1/4" x 28-7/64"

Network Printing System (Standard)

PDL	PCL [®] 6, PostScript [®] 3™ compatible, optional XPS
Resolution	1200 dpi, 600 dpi
Print Speed	31 pages per minute (Letter)
Print Drivers	Windows Server [®] 2003-2008, Windows XP, Windows XP x 64, Windows Server x64, Windows Vista [®] , Windows Vista x 64, Windows [®] 7, MAC [®] OS [®] (including 10.4.11, 10.5-10.5.8, 10.6-10.6.8, 10.7-10.7.4, all MAC PPD.
Features	Continuous printing, duplex printing, pamphlet printing, N-up printing, image rotation, different cover page/last page, transparency inserts, carbon copy print mode, fit-to-page, poster print, margin shift, mirror image, watermarks, overlay, confidential print, confidential batch print, print hold, bypass printing, job priority printing and direct printing. (Note: Some features not available on certain print drivers)
Direct Printing	File Types: TIFF, JPEG, PCL, PRN, TXT, PDF, Encrypted PDF, PostScript and XPS ¹ . Methods: FTP, WebPage, E-mail and USB Memory
Resident Fonts	80 Outline Fonts
Interface	RJ-45 Ethernet 10Base-T/100Base-TX/1000Base-T
Operating Systems	Windows Server [®] 2003-2008, Windows [®] XP, Windows Vista, Windows 7, MAC OS X 10.4.11, 10.5-10.5.8, 10.6.10.6.8, 10.7-10.7.4, Novell [®] Netware [®] 3x, 4x, 5x, Sun [®] OS 4.1x, Solaris [®] 2x, Unix [®] , Linux [®] and Citrix [®] (Metaframe, Presentation Server 4, 4.5) and Windows Terminal Services.
Network Protocols	TCP/IP (IPv4, IPv6, IPSEC) SSL (HTTP, IPP, FTP), SNMPv3, 802.1x for Windows and Unix. LPD and LPR for UNIX. IPX/SPX [®] for Novell environments. EtherTalk [®] and NetBEUI, AppleTalk for Macintosh [®] environments.
Printing Protocols	LPR, IPP, IPPS, PAP, Raw TCP (port 9100), FTP and Novell Pserver/Rprinter
Network Security	IP/Mac address filtering, protocol filtering, port management, user authentication and document administration.
Security Standards	IEEE 2600-2008, DoD (NSTISSP) #11, DoD Directive 8500.2, DoD (DISA)

Network Scanning System (Standard)

Max Original Size	8-1/2" x 14"
Optical Resolution	600 dpi
Output Modes	600 dpi, 400 dpi, 300 dpi, 200 dpi, 100 dpi
Scan Modes	Colour, monochrome, greyscale
Image Formats	Monochrome: TIFF, PDF, Encrypted PDF, XPS ¹ Colour: Greyscale, Colour TIFF, JPEG, PDF, Encrypted PDF, XPS ¹ Internet Fax: TIFF-FX, TIFF-F, TIFF-S ¹
Image Compression	Monochrome Scanning: Uncompressed, G3 (MH), G4 (MR/MMR) Colour/Greyscale: JPEG (High, middle, low) Internet Fax mode: MH/MMR (option)
Scan Destinations	E-mail, Desktop, FTP, Folder (SMB), USB, Internet fax (option), Super G3 fax (option)
One-Touch Destinations	Up to 999 (combined scan destinations)
Group Destinations	Up to 500
Programs	48 (combined)
Max. Jobs in Memory	Up to 94
Network Protocols	TCP/IP and SSL (includes HTTP, SMTP, LDAP, FTP, POP3), SMB, ESMTMP and 802.1x
Network Security Software	E-mail server user authentication for LDAP and Active Directory Sharpdesk [®] desktop document management software (1 user license)

B&W Super G3 Fax Kit (Option)

Transmission Mode	Super G3, G3
Modem Speed	33.6 KBPS ³
Compression Methods	JBIG, MMR, MR, MH
Scanning Method	Sheet fed simplex or duplex or book
Max Transmit Resolution	400 dpi
Transmit Speed	Approximately 2 seconds with Super G3/JBIG ⁴

Auto Dialing	Up to 999 (combined scan destinations)
Group Dial/Destinations	Up to 500
Inbound Fax Routing	Forwards received fax data to E-mail, FTP, Desktop, SMB

B&W Super G3 Fax Kit - Continued

Long Length Originals	Up to 19.5" (for transmission)
Programs	48 (combined)
Memory	8 MB (Exclusive)
Halftone	256 levels
Features	Quick on-line transmission, direct transmission, F-Code transmission/reception, rotate transmission, anti-junk fax reception, automatically staple received faxes, secure fax release, out of paper memory reception, auto redial, duplex reception transaction reports, activity reports and PC Fax.

Inner Finisher (Option)

Type	Built in Finisher
Output Capacity	Up to 280 sheets (Letter/Legal), 100 postcard, 20 envelope
Output Delivery	Face down
Stapling Media	Plain/Thin/Heavy/Recycled/Letterhead/Pre-punched/Coloured/Pre-printed paper
Stapling Positions	Single corner position
Power Source	Supplied from the main unit
Stapling	30 sheets Letter/legal
Stapled Sets	10 bundles or 300 sheets (letter/legal)
Weight	Approx. 19.8 lbs
Dimensions (When Tray is expanded)	18-2/3" (w) x 13-1/16" (d) x 6-3/16" (h)

Optional Equipment

MXBTX1	Business Card Feeder
MXFN12	Inner Finisher
MXCFABB	Base Plate with locking casters
MXCFABD	Deluxe Cabinet with door and locking casters
MXCSX1	500 sheet Paper Feed Unit for Tray 2
MXCSX2	500 sheet Paper Feed Unit for Trays 3 & 4
MXPXU1	XPS Expansion Kit (Requires MXSHP1GBXPS)
MXSHP1GBXPS	Expansion Memory 1 GB (Required for MXPXU1)
ARPF1	Bar Code Font Kit
MXFR29U	Commercial Data Security Kit
MXFX3	Fax Expansion Kit
MXFWX1	Internet Fax Expansion Kit
MXAMX1	Application Integration Module
MXAMX2	Application Communication Module
MXAMX3	External Accounting Module
MXUSX1	Sharpdesk 1 License Kit
MXUSX5	Sharpdesk 5 License Kit
MXUS10	Sharpdesk 10 License Kit
MXUS50	Sharpdesk 50 License Kit
MXUSAO	Sharpdesk 100 License Kit

Supplies

MXC40NTB	Black Toner Cartridge
MXC40NTC	Cyan Toner Cartridge
MXC40NTM	Magenta Toner Cartridge
MXC40NTY	Yellow Toner Cartridge
MXC40NVB	Black Developer
MXC40NVC	Cyan Developer
MXC40NVM	Magenta Developer
MXC40NVY	Yellow Developer
MXC40NRB	Black Drum Cartridge
MXC40NRS	Colour Drum Cartridge
MXC31HB	Toner Collection Container
MXSCX1	Staple Cartridge



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the SHARP experience

see what happens

SHARP