

# SHARP®

## ADVANCED WORKGROUP COLOR DOCUMENT SYSTEM



"Most Secure MFP Range"  
6th Consecutive Year  
Award 2009



"Best Device Management  
and Integration Technology for  
MFP Series" Award 2009



"Outstanding Network  
Device Management Utility"  
Award 2009



MX-2310U

A full-color ledger-size document system that will meet virtually all of your business needs.

## MX-2310U: HIGH QUALITY, FEATURE RICH AND A STRONG VALUE

Boost workgroup efficiency and productivity with Sharp's environmentally-friendly MX-2310U full color MULTI-FUNCTIONAL DOCUMENT SYSTEM, precision-engineered to deliver amazing image quality and consistent day-to-day performance while also being easy to afford. Features include a HIGH RESOLUTION TOUCH SCREEN color display with graphical user navigation for easy operation. Equipped with a powerful 600 MHz TRUE MULTI-TASKING controller that allows quick processing of even complex print jobs, the MX-2310U produces HIGH-QUALITY, vibrant color documents in-house, helping you save time and money. Sharp's advanced device management tools make it simple for businesses to control system access, color usage and costs. To make integration with network applications easier than ever, the MX-2310U supports the optional SHARP OSA® DEVELOPMENT PLATFORM.\* Sharp's industry leading security helps assure the confidentiality of your intellectual property.\* That's the SHARP DIFFERENCE.



VERSATILE

MULTI-FUNCTIONAL

POWERFUL

MULTI-TASKING

INTUITIVE

Advanced features plus multi-functional capability allow you to meet tomorrow's document needs today.

- Powerful 600 MHz **true multi-tasking** full-color document system
- **High resolution touch screen** color display with graphical navigation
- Enhanced second generation micro-fine toner technology offers sharp, **high quality images** page after page
- **600 x 600 dpi** printing provides clear, crisp image output
- Advanced **ImageSEND™** function scans documents to USB devices, network folders, e-mail and more
- Robust 86 GB **document filing system** with **thumbnail view** and **image preview** features
- Standard network printing with **Sharp Advanced Printing Language (SAPL-c)** delivers robust performance
- Supports the Sharp OSA development platform, enabling businesses to streamline document workflow and help **enhance productivity** with **speed and efficiency\***



- ImageSEND function scans documents at up to **50 images per minute** in both black and color
- **Flexible paper handling** system feeds up to 110 lb index through paper trays and up to 140 lb index through the bypass tray
- On-board paper storage capacity for **up to 2,100 sheets** with options
- **Super G3 fax** option with intelligent inbound routing\*
- Supports Sharp's latest **award-winning** multi-level document and network security suite\*
- Supports **IEEE-2600™ 2008 security standard** for MFP devices\*
- Advanced **web-based device management** offers both administrator level and user level login control
- **Remote front panel feature** allows users and administrators to view and control machine operations from a PC workstation\*
- **Environmentally-friendly design** offers low power consumption, fast warm-up, compact design and long-life parts and supplies



## INTUITIVE FEATURES HELP BUSINESSES SOAR TO NEW HEIGHTS



High-resolution touch screen with Stylus pen for easy point-and-touch operation.



Available paper capacity stores up to 2,100 sheets with options.



Sharp's easy-to-use document filing system with thumbnail preview.

### Sharp's MX-2310U will help elevate workgroup performance and meet on-the-go business demands.

#### The Flexibility and Performance You Need

With a **high resolution touch screen color display** and a powerful 600 MHz **multi-tasking controller**, the MX-2310U color workgroup document system can help elevate your office productivity to the next level. The intuitive menu navigation system with razor sharp graphics makes operating the MX-2310U simple and easy. With Sharp's true multi-tasking controller, complex color print jobs can be processed quickly, even while documents are being scanned. But that's just the beginning—with a standard **100-sheet reversing document feeder**, automatic duplexing, electronic sorting and integrated offset stacking, you'll complete even large jobs in a snap.

#### High Quality Output You Can Rely On

The MX-2310U color workgroup document system combines enhanced second-generation micro-fine toner technology with **600 x 600 dpi** print resolution to produce documents with crisp, clear images and dazzling high quality colors. **Sharp's Advanced Image Stabilization** system helps ensure uniform density and color balance for beautiful output page after page.

#### Professional Performance Your Business Can Depend On

Sharp's MX-2310U color workgroup document system delivers professional performance and optimal productivity to satisfy your daily production needs. Copy/print **speeds up to 23 ppm** (in both color or B&W) help you to meet project deadlines with time to spare. The flexible paper handling system can feed up to 110 lb index stock through the paper trays and up to 140 lb index through the bypass tray. With available on-line paper capacity of up to 2,100 sheets, the MX-2310U is ready when you are.

#### Innovative Document Filing For Easy Access

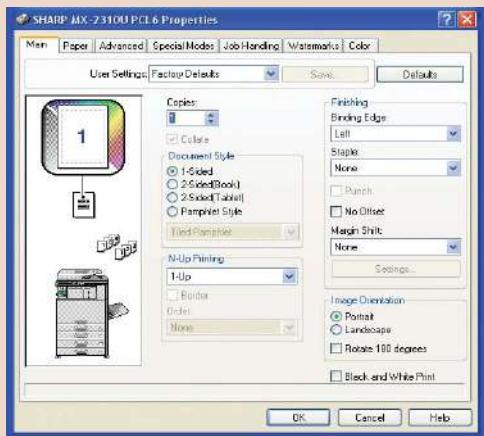
Sharp's easy-to-use **Document Filing System** provides up to 86 GB of hard drive space to store frequently used files like forms and templates. Plus, with Sharp's **thumbnail preview** mode, stored jobs can be located and retrieved quickly. An advanced backup system and PIN-access security helps ensure that your files are safe.

#### Advanced Finishing Adds The Final Touch

The MX-2310U offers a high-performance finisher that can always give your documents a professional look and feel. You can save time and money by minimizing outsourced color jobs such as proposals, presentations or newsletters. The compact inner finisher also offers three-position stapling and an available 3-hole punch and stamping unit.



# ENHANCED WORKFLOW FEATURES INCREASE PRODUCTIVITY



Sharp's easy-to-use print drivers make accessing all of the MX-2310U color features simple and easy.



USB 2.0 port is located on the front panel for easy access.\*

## Impressive workflow efficiency with leading edge features that help deliver optimum results.

### Exceptional Print Quality with Professional Finishing

With the MX-2310U, your business can produce brilliant, high quality color documents, as well as crisp B&W documents. With Sharp's original SAPL-c (Sharp Advanced Printing Language) documents are printed with superb performance and efficiency. Plus, with true **600 x 600 dpi** resolution, all of your documents will look great! **Powerful finishing features** include 3-position stapling for up to 50 sheets and 3-hole punching.\*

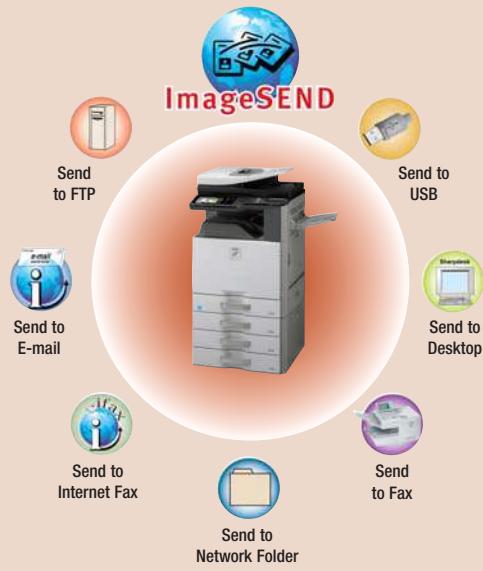
### A True Multi-Tasking Document System

The MX-2310U features a **high-performance**, 600 MHz multi-tasking controller that delivers copy, scan, fax and print jobs continuously for optimum efficiency. Some controllers only perform one operation at a time. But the MX-2310U continually processes incoming jobs even while existing jobs are output. The result? A workflow that virtually never slows down—even at crunch time.

### Optional Direct USB Printing Adds Convenience and Portability

With Direct USB printing, users can print color or B&W image files in a variety of popular formats directly from USB memory devices such as a ThumbDrive™ or ClipDrive™.\* Need to print PDF brochures in a hurry for a big meeting? It's easy with the MX-2310U. Just plug in your portable USB memory device, select the file, and your job prints immediately.

## FLEXIBLE DOCUMENT DISTRIBUTION



### Integrated Network Scanning

With Sharp's powerful **ImageSEND** technology, you get one-touch distribution features that centralize document workflow, help reduce mail costs and save time. With up to **seven destinations**—E-mail, Desktop, FTP, Network Folders (SMB), USB, Fax and Internet Fax—getting your document where it needs to go is as easy as pushing a button. For increased efficiency, **Send to Group** mode allows you to mix group broadcast to E-mail, Fax, and Internet Fax.\*

### Convenient E-mail Distribution

With Lightweight Directory Access Protocol (LDAP), there's no need to manually enter a recipient's complete e-mail address. Simply enter the first few characters and the MX-2310U automatically searches and displays a list of matching names. **Unique File Naming** allows users to enter specific file names with custom subject fields, for easy recall of stored files. With **Sharpdesk®** personal document management software, users can organize scanned documents and integrate them into everyday workflow.

### Integrated Super G3 Fax and Internet Fax

Add powerful facsimile capability with the optional Super G3 fax module which features automatic stapled/copied receptions and Inbound Fax Routing to e-mail. Sharp's innovative PC fax driver enables users to send fax documents right from their desktop. For Internet fax operation, add the optional B&W Internet Fax expansion kit.



### Versatile Application Integration

To help streamline document workflow and **enhance productivity**, the MX-2310U supports the Sharp OSA development platform. This third generation technology allows users to **interact with network applications faster** than ever before—and right from the machine LCD panel! Sharp OSA technology uses industry-standard network protocols, such as XML and SOAP, allowing the MX-2310U to communicate with many different applications. The Sharp OSA development platform is also scalable, so as your workflow needs change, Sharp's application integration can change as well.

\*Some features require optional equipment and/or software.



"Best Device Management and Integration Technology for MFP Series" Award 2009



## ADVANCED DEVICE MANAGEMENT MAXIMIZES PRODUCTIVITY



Separate print buttons for B&W and Color allow users to selectively manage use of color.



Embedded web page.



Sharp Remote Device Management.

**The MX-2310U implements versatile device management capabilities through user-friendly software to achieve ultimate efficiency.**

### Sharp Remote Device Management (SRDM)

Make management of your MX-2310U simple and straight forward with Sharp Remote Device Management (SRDM). This easy-to-use software allows you to take control of the versatile system features and simplifies installation and management.

- With **Printer Status Monitor**, network users can view printer conditions, check paper levels, toner, and more, all through an easy-to-use interface.
- With advanced **Sharp Remote Device Manager**, administrators can easily manage the setup, configuration, device settings, cloning and more! Advanced features such as **Remote Front Panel** allow administrators and support personnel to view and control the LCD panel of the machine remotely from virtually any PC on the network!\* Plus, with event-driven, real-time service alerts, administrators and supervisors can achieve higher productivity. Now, it is easier than ever to view service logs, click counts, history reports and more.
- Experience the convenience of an **Embedded Web Page** right from your desktop! This advanced web-based management tool allows users to create and manage their own network scanning destinations, profiles and web-links. Administrators can access device settings, color control, account information and security settings.

### Take Charge of Color Usage and Costs

With Sharp's **device management system**, administrators and supervisors can define user groups on the MX-2310U to manage and restrict features, such as color copying, scanning or printing. Easily set up a custom user group to manage page counts (copy, print, scan or fax operations) for both color and B&W. This helps to simplify cost management of color imaging. The MX-2310U can **store profiles for up to 1000 users**.

### 24/7 Training with My Sharp

Managing all of the advanced features of your Sharp product is simple and easy. Ask your Authorized Sharp Dealer about the **My Sharp website**. This dedicated customer training website is customized to your MX-2310U and allows you to locate resources and find information specific to your configuration, truly helping you maximize your investment.



\*Some features require optional equipment and/or software.

# HEIGHTENED SECURITY HELPS PROTECT YOUR BUSINESS

To help protect your data, the MX-2310U 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.

## Authority Groups

Advanced account management enables administrators to set authority groups for access to features of the MX-2310U. Administrators can control which department, for instance, has full access to copying, printing, scanning and/or fax. Walk up users enter a code, Local Name and Password, or LDAP User Authentication to access the features assigned to their group.

## Data Overwrite and Encryption

To help protect your data, the MX-2310U can encrypt document data using **AES** (Advanced Encryption Standard) **256-bit encryption**. The MX-2310U can also erase the temporary memory on the hard drive by overwriting the encrypted data up to seven times, offering an unprecedented level of assurance.

## Network Scanning Access Control

To help protect your network from unauthorized e-mail communications, the MX-2310U supports **User Authentication**, requiring users to login before performing any network scanning operations.

## Control Device Access Over the Network

To help restrict access to the device over the network, the MX-2310U 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.

## Documents Remain Confidential

The MX-2310U offers **Confidential Printing**, which when used, requires users to enter a PIN code in order to print a queued document. To help protect your direct-print documents from unauthorized viewing, the MX-2310U offers encrypted PDF printing and scanning. Additionally, **Secure Fax Release** ensures received fax documents are held in memory until an authorized user enters a PIN code, so that compliance with healthcare regulations such as HIPAA is easier.

## 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.

## Data Security Kit (Optional)

For maximum protection, the optional data security kit offers additional features, such as Data Overwrite at Power Up, Document Filing access control and Restricted Status Display.

These scalable security offerings aim to protect your intellectual property, preserve confidential information and help your business to meet regulatory requirements, such as the Health Insurance Portability and Accountability Act (HIPAA), and the Gramm Leach Bliley Act (GLB). For additional information visit: [www.sharpusa.com/security](http://www.sharpusa.com/security).



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## ENVIRONMENTAL COMMITMENT



### Designed with a Strong Commitment to Helping Protect the Environment

The MX-2310U document system utilizes Sharp's enhanced second generation micro-fine toner technology, which offers a lower consumption rate than conventional toners. This also results in less packaging material and longer replacement intervals. Additionally, all Sharp supplies are packaged using fully recyclable materials. Power consumption on the MX-2310U is among the lowest in the industry and supports two different energy saving modes to reduce or shut off power after a set interval. All Sharp document systems belong to the EnergyStar® program and RoHS program.

### An Economical, Low Maintenance Color Document System that Makes Sense

The MX-2310U is designed to accommodate both large and small office environments. With a compact wingless design, the footprint of each base model is less than 23" x 25". Our new long-life consumable parts and supplies help minimize service intervals and down time, resulting in lower operating costs.

### Sharp's Environmental Leadership

As a testament to our commitment to the environment, Sharp was a former recipient of the **Excellence in Partnership Green Contractor Award** and the **Evergreen Award** from the US Government's General Services Administration and the Coalition for Government Procurement. The Green Contractor Award recognizes contractors that have made the best overall commitment to the environment by offering environmentally-friendly products and services or adhering to environmentally sound manufacturing procedures. The Evergreen Award identifies environmentally-friendly businesses and their efforts in recycling and waste reduction practices. Please visit [www.sharpusa.com/environment](http://www.sharpusa.com/environment) to learn more about our environmental leadership.

### Toner Recycling Program

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 toner cartridges by providing a pre-paid shipping label for their return to our facility. Please visit [www.sharpusa.com/recycle](http://www.sharpusa.com/recycle) to learn more.

# MX-2310U SPECIFICATIONS

## Main Specifications

MX-2310U	Includes multi-tasking controller, 160 GB HDD with document filing system, SAPL-c (Sharp Advanced Printing Language) network printing, network scanning, 100-sheet RSPF, auto-duplex, one 500-sheet paper drawers and 100-sheet bypass. Black and color developer is included in the box.
Type	Desktop, color multi-function digital document system
Display	7" (diagonally measured) color dot matrix touch panel. 800 x 400 dots (W-VGA)
Functions	Copy, print, network print, network scan, document filing and fax <sup>1</sup>
Copy System	Dry electrostatic transfer/Dual component developer/Magnetic brush development/OPC drums/Belt type fusing/white LED exposure
Originals	Sheets and bound documents
Max Original Size	11" x 17"
Copy Size	Min. 5½" x 8½", Max. 11" x 17" + 12" x 18"
Copy Speed	23 ppm B&W/Color (8½" x 11")
Multiple Copy	Max. 999 copies
First Copy Time	Platen glass: 7.4 seconds (B&W); 10 seconds (color) RSPF: 10 seconds (B&W); 13.2 seconds (color) (Based on letter size original using copy tray 1 with laser unit motor running) <sup>2</sup>
Warm Up Time	20 seconds or less <sup>3</sup>
Magnification	25% to 400% in 1% increments (with document feeder 25%-200%)
Original Feed	100-sheet RSPF with original size detection
Scan Speed	Copy mode: Up to 50 OPM (B&W) @ 600 x 400 dpi; Up to 36 OPM (Color) @ 600 x 600 dpi. Network Scan: Up to 50 OPM (B&W or Color) 200 x 200 dpi. All times based on single-side letter originals.
Original Sizes	5½" x 8½", 8½" x 11", 8½" x 11" R, 8½" x 14", 11" x 17" (13-32 lb. bond)
Paper Feed System	Standard: (1) 500-sheet paper drawer (letter/legal/ledger/ statement size) and 100-sheet bypass tray (letter/legal/ledger/ statement/envelope size). Optional: Single, double or triple drawer paper deck (500-sheets each drawer), letter/legal/ ledger/ statement size. See your local dealer for configurations.
Paper Types	Paper drawers: 16 lb. bond -110 lb. index. Other paper types include plain, pre-printed, recycled, pre-punched, letterhead and color paper. Bypass Tray: 16-28 lb. bond (plain paper), 13-16 lb. bond (thin paper), 110-140 lb. index (heavy paper), 20-24 lb. bond (Monarch/Com-10 envelope), tab paper (letter size only). Other types include label paper, gloss paper, pre-printed, recycled, pre-punched, letterhead, color paper and OHP film.
Duplexing	Standard automatic duplex copying and printing
CPU	1800 MHz Multi-Processor Design
Interface	RJ-45 Ethernet (10/100/1000Base-T), USB 2.0 (2 host ports, front and rear), USB 2.0 (2 device ports)
Memory	Standard 1 GB, 512 MB additional memory with optional MX-PB14.
Hard Disk Drive	160 GB; 86 GB for document filing/74 GB for image processing and other internal operations
Copy Resolution	Scan: B&W/color: 600 dpi; Copy Output: B&W/color: 600 dpi
Color Modes	Auto Color Control (ACS), Full Color Mode, Monochrome (B/W)
Exposure Control	Modes: Automatic Text, Text/Photo, Text/Printed-Photo, Printed-Photo, Photo, Map, Pale-Color Document. Settings: Auto exposure control or 9 step manual exposure.
Halftone	256 gradations/2 levels (monochrome)
Copy Features	Scan-Once Print-Many, electronic sorting, offset-stacking, Auto Color Sensing (ACS), Auto Paper Sensing (APS), Auto Magnification Sensing (AMS), auto tray switching, rotation copy, reserve copy, tandem copy, book copy, margin shift, tab-paper insertion, edge erase, center erase, dual page copy, cover pages, insert pages, OHP insertion, job build, card shot, multi-page enlargement, mirror image, black-white reversal, centering, proof copy, 2-in-1/4-in-1, pamphlet, photo repeat, document filing, account management, job programs, date/character/page stamp.
Account Control	Up to 1000 users. Supports user-number authentication (on device), login name/password (on device) or login name/password (on device via LDAP server) for Copy, Print, Scan, Fax and document management.
Output Tray Capacity	Main output tray (top) 400 sheets (face down); optional eject tray (right 1 side) 100 sheets (face down)
Firmware Management	Flash ROM with local (USB), network update capability and firmware update 1 to N with SRDM (Sharp Remote Device Management)
Configuration Method	Web-based management with user/administrator level login, cloning (1 to N) with SRDM and remote front panel access

<sup>1</sup> Some features may require optional equipment and/or software.

<sup>2</sup> May vary depending on product configuration, machine settings and operating and/or environmental conditions.

<sup>3</sup> Actual transmission time will vary based on line conditions.

<sup>4</sup> Based on Sharp Standard Test Chart with approximately 700 characters, letter size in standard resolution.

## B&W Super G3 Fax Kit (option)

Transmission	Super G3, G3
Mode	
Modem Speed	33.6 KBPS <sup>5</sup>
Compression	JBIG, MMR, MR, MH
Methods	
Scanning Method	Sheet fed simplex or duplex or book
Max. Transmit Resolution	400 dpi
Transmit Speed	Approx. 2 seconds with Super G3/JBIG <sup>6</sup>
Auto Dialing	Up to 1000 (combined scan destinations)
Group	Up to 500
Dial/Destinations	
Inbound Fax	Routing: Forwards received fax data to E-mail
Long Length	Up to 31½" (for transmission)
Originals	
Programs	48 (combined)
Memory	1 GB (shared)
Halftone	256 levels
Features	Quick on-line transmission, direct transmission, F-Code transmission/reception, rotate transmission, in-bound fax routing, anti-junk fax reception, automatically staple received faxes, secure fax release, out of paper memory reception, auto redial, 2-in-1 reception, duplex reception transaction reports, activity reports and PC fax.

## Inner Finisher (option)

Type	Built-in finisher (hole-punch unit option)
Output Capacity	500 sheets (letter/statement) or 250 sheets (ledger/legal size)
Output Delivery	Face down
Stapling Media	Plain paper, (letter, legal, or ledger size)
Stapling Positions	1 front, 1 rear, or both
Power Source	Supplied from main unit
Stapling	Up to 50 sheets (letter size) or 30 sheets (legal, ledger or mixed)
Stapled Sets	30 bundles or 500 sheets (letter or statement size) or 30 bundles or 250 sheets (legal or ledger size)
Hole Punching	Optional hole punch unit MX-PN11B (2 holes/3 holes)
Weight	Approx. 26.5 lbs.
Dimensions	24¾" (w) x 23½" (d) x 8" (h) (includes extended tray)

## Optional Equipment

MX-DE12	Stand/1 x 500 Sheet Paper Drawer
MX-DE13	Stand/2 x 500 Sheet Paper Drawer
MX-DE14	Stand/3 x 500 Sheet Paper Drawer
MX-36ABD	Rolling Cabinet Base
MX-FN17	Inner Finisher
MX-PN11B	3 Hole Punch Unit (Requires MX-FN17)
MX-TR12	Exit Tray Unit
MX-PB14	PCL6 Printer Expansion Kit
MX-PK11	Postscript <sup>7</sup> 3 <sup>TM</sup> Kit (Requires MX-PB14)
MX-PUX1	XPS Expansion Kit (Requires MX-SHP1GBCR3)
MX-SHP1GBCR3	1GB Memory Upgrade (Required for MX-PUX1)
MX-FX11	Fax Expansion Kit
MX-FWX1	Internet Fax Kit
MX-PF10	Bar Code Font Kit (Requires MX-PB14)
AR-SU1	Stamp Unit (Requires AR-SV1 Stamp Cartridge)
MX-AMX1	Application Integration Module
MX-AMX2	Application Communication Module
MX-AMX3	External Accounting Module
MX-FR25U	Commercial Data Security Kit (not available at time of launch)
DVENDFS	Generic Vendor Interface Kit

## Supplies

MX-23NTBA	Black Toner Cartridge
MX-23NTCA	Cyan Toner Cartridge
MX-23NTMA	Magenta Toner Cartridge
MX-23NTYA	Yellow Toner Cartridge
MX-36NVA	Black Developer
MX-36NVA	Cyan/Magenta/Yellow Developer
MX-36NRSA	Drum



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