

ADVANCED WORKGROUP COLOR DOCUMENT SYSTEM

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

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.



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



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

*Some features require optional equipment and/or software.

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 ¹
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) ²
Warm Up Time	20 seconds or less ²
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	ARM11 600MHz; PCL Accelerator: MPC8535 power QUICC e500 800MHz (requires optional MX-PB14)
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

Service/Maintenance	Remote front panel access, remote access to service logs and click counts
Accessibility Features	Adjustment of Key Touch-Send and Speed, Concave Key, Document Feeder Free Stop, Job Programs, Remote Front Panel, Universal Grip for Paper Trays, and Disable Screen Timeout
Environmental Standards	The International Energy Star Program (EPA) Ver. 1.1, Law on Promoting Green Purchasing, Canadian ECO Logo Program (CCD-035), European RoHS (Restriction of Hazardous Substances)
Power	AC 100-127 VAC, 60 HZ, 12 Amps
Power Cons.	Maximum: 1440 W
Weight	Approx. 159 lbs. (base model)
Dimensions	23" (w) x 24½" (d), x 33" (h)

Network Printing System

PDL	Standard SAPL-c (Sharp Advanced Printing Language), optional PCL® 6/PCL5c compatible, optional Postscript 3, optional XPS
Resolution	600 x 600 dpi
Print Speed	23 pages per minute (8½" x 11")
Print Drivers	Windows 2000, Windows Server® 2003-2008, Windows XP, Windows XP x64, Windows Server x64, Windows Vista®, Windows Vista® x64, Windows 7, MAC OS®, 9.2.2, OSX (including 10.2.8, 10.3.9, 10.4.11, 10.5-10.5.8, 10.6.2), all MAC PPD.
Features	Auto configuration, continuous printing, electronic sorting, offset stacking, N-up printing, duplex printing, transparency inserts, margin shift, image rotation, different cover page, poster print, job bypass print, job retention, confidential print, proof print, user authentication, image stamp and watermarks. Additional features with Optional MX-PB14 Printer Expansion Kit: Multiple pamphlet, network tandem print, carbon copy print mode, different cover page/last page/other page, form overlay, tab paper settings, tab printing, chapter inserts, page Interleave and bar code font printing (requires MX-PF10 bar code font kit)
Direct Printing (optional)	File Types: TIFF, JPEG, PCL, PRN, TXT, PDF, Encrypted PDF, Postscript and XPS ¹ Methods: FTP, Web page, E-mail and USB memory
Resident Fonts	80 outline fonts (PCL), 136 fonts (PS)
Interface	RJ-45 Ethernet 10/100/1000 Base-T, USB 2.0
Operating Systems	Windows Server 2003-2008, Windows 2000/XP, Windows Vista, Windows 7, MAC OS 9-9.2.2, MAC OS X 10.2.8, 10.3.9, 10.4.11, 10.5-10.5.8, 10.6-10.6.2, 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. ¹
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 Macintosh environments. EtherTalk® and NetBEUI. AppleTalk® for Macintosh® environments. ¹
Printing Protocols	LPR, IPP, IPPS, PAP, Raw TCP (port 9100), FTP and Novell Pserver/Printer
Network Security	IP/Mac address filtering, protocol filtering, port management, user authentication and document administration. ¹
Security Standards	IEEE-2600, DoD (NSTISSP) #11, DoD Directive 8500.2, DoD (DISA) ¹

Network Scanning System

Scan Modes	Standard: Color, monochrome, grayscale
Max Original Size	11" x 17"
Optical Resolution	600 dpi
Output Modes	600 dpi, 400 dpi, 300 dpi, 200 dpi, 100 dpi
Image Formats	Monochrome: TIFF, PDF, Encrypted PDF, XPS Color: Grayscale, Color TIFF, JPEG, PDF, Encrypted PDF, XPS Internet Fax: TIFF-FX, FIFF-F, TIFF-S ¹
Image Compression	Monochrome Scanning: Uncompressed, G3 (MH), G4 (MR/MMR) Color/Grayscale: 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 1000 (combined scan destinations)
Group Destinations	Up to 500
Programs	48 (combined)
Max. Jobs	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	Approx. 2 seconds with Super G3/JBIG ⁴
Auto Dialing	Up to 1000 (combined scan destinations)
Group Dial/Destinations	Up to 500
Inbound Fax Long Length	Routing: Forwards received fax data to E-mail Up to 31½" (for transmission)
Originals Programs	48 (combined)
Memory	1 GB (shared)
Halftone Features	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® 3™ 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)
DVENDF5	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-36NVBA	Black Developer
MX-36NVSA	Cyan/Magenta/Yellow Developer
MX-36NRSA	Drum

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

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

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.



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